RECONSTRUCTION IN PHILOSOPHY

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PREFATORY NOTE

BEING invited to lecture at the Imperial University of Japan in Tokyo during February and March of the present year, I attempted an interpretation of the recon struction of ideas and ways of thought now going on in philosophy. While the lectures cannot avoid revealing the marks of the particular standpoint of their author, the aim is to exhibit the general contrasts between older and newer types of philosophic problems rather than to make a partisan plea in behalf of any one specific solution of these problems. I have tried for the most part to set forth the forces which make intellectual recon struction inevitable and to prefigure some of the lines upon which it must proceed.

Any one who has enjoyed the unique hospitality of Japan will be overwhelmed with confusion if he en deavors to make an acknowledgment in any way com mensurate to the kindnesses he received. Yet I must set down in the barest of black and white my grateful appreciation of them, and in particular record my inef faceable impressions of the courtesy and help of the members of the department of philosophy of Tokyo University, and of my dear friends Dr. Ono and Dr. Nitobe. J. D.

September, 1919.

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CHAPTER I CHANGING CONCEPTIONS OF PHILOSOPHY

MAN differs from the lower animals because he pre serves his past experiences. What happened in the past is lived again in memory. About what goes on today hangs a cloud of thoughts concerning similar things undergone in bygone days. With the animals, an ex perience perishes as it happens, and each new doing or suffering stands alone. But man lives in a world where each occurrence is charged with echoes and reminiscences of what has gone before, where each event is a reminder of other things. Hence he lives not, like the beasts of the field, in a world of merely physical things but in a world of signs and symbols. A stone is not merely hard, a thing into which one bumps; but it is a monu ment of a deceased ancestor. A flame is not merely something which warms or burns, but is a symbol of the enduring life of the household, of the abiding source of cheer, nourishment and shelter to which man returns from his casual wanderings. Instead of being a quick fork of fire which may sting and hurt, it is the hearth

at which one worships and for which one fights. And all this which marks the difference between bestiality and

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humanity, between culture and merely physical nature, is because man remembers, preserving and recording his experiences.

The revivals of memory are, however, rarely literal. We naturally remember what interests us and because it interests us. The past is recalled not because of itself but because of what it adds to the present. Thus the primary life of memory is emotional rather than intel lectual and practical. Savage man recalled vesterday s struggle with an animal not in order to study in a scientific way the qualities of the animal or for the sake of calculating how better to fight tomorrow, but to escape from the tedium of today by regaining the thrill of yesterday. The memory has all the excitement of the combat without its danger and anxiety. To revive it and revel in it is to enhance the present moment with a new meaning, a meaning different from that which actually belongs either to it or to the past. Memory is vicarious experience in which there is all the emotional values of actual experience without its strains, vicissi tudes and troubles. The triumph of battle is even more poignant in the memorial war dance than at the moment of victory; the conscious and truly human experience of the chase comes when it is talked over and re-enacted by the camp fire. At the time, attention is taken up with practical details and with the strain of uncertainty. Only later do the details compose into a story and fusei

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into a whole of meaning. At the time of practical experience man exists from moment to moment, pre occupied with the task of the moment. As he re-surveys all the moments in thought, a drama emerges with a beginning, a middle and a movement toward the climax of achievement or defeat.

Since man revives his past experience because of the interest added to what would otherwise be the emptiness of present leisure, the primitive life of memory is one of fancy and imagination, rather than of accurate recol lection. After all, it is the story, the drama, which counts. Only those incidents are selected which have a present emotional value, to intensify the present tale as it is rehearsed in imagination or told to an admiring listener. What does not add to the thrill of combat or contribute to the goal of success or failure is dropped. Incidents are rearranged till they fit into the temper of the tale. Thus early man when left to himself, when not actually engaged in the struggle for existence, lived in a world of memories which was a world of suggestions. A suggestion differs from a recollection in that no 1 attempt is made to test its correctness. Its correctness is a matter of relative indifference. The cloud suggests a camel or a man s face. It could not suggest these things unless some time there had been an actual, literal experience of camel and face. But the real likeness is of no account. The

main thing is the emotional interest

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in tracing the camel or following the fortunes of the face as it forms and dissolves.

Students of the primitive history of mankind tell of the enormous part played by animal tales, myths and cults. Sometimes a mystery is made out of this histori cal fact, as if it indicated that primitive man was moved by a different psychology from that which now animates humanity. But the explanation is, I think, simple. Until agriculture and the higher industrial arts were developed, long periods of empty leisure alternated with comparatively short periods of energy put forth to secure food or safety from attack. Because of our own habits, we tend to think of people as busy or occupied, if not with doing at least with thinking and planning. But then men were busy only when engaged in the hunt or fishing or fighting expedition. Yet the mind when awake must have some filling; it cannot remain literally vacant because the body is idle. And what thoughts should crowd into the human mind except experiences with animals, experiences transformed under the influence of dramatic interest to make more vivid and coherent the events typical of the chase? As men in fancy dramatically re-lived the interesting parts of their actual lives, animals inevitably became themselves dram atized.

They were true dramatis personoe and as such as sumed the traits of persons. They too had desires,

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hopes and fears, a life of affections, loves and hates, triumphs and defeats. Moreover, since they were essential to the support of the community, their activities and sufferings made them, in the imagination which dramatically revived the past, true sharers in the life of the community. Although they were hunted, yet they permitted themselves after all to be caught, and hence they were friends and allies. They devoted themselves, quite literally, to the sustenance and well-being of the community group to which they belonged. Thus were produced not merely the multitude of tales and legends dwelling affectionately upon the activities and features of animals, but also those elaborate rites and cults which made animals ancestors, heroes, tribal figure-heads and divinities.

I hope that I do not seem to you to have gone too far afield from my topic, the origin of philosophies. For it seems to me that the historic source of philosophies cannot be understood except as we dwell, at even greater length and in more detail, upon such con siderations as these. We need to recognize that the ordinary consciousness of the ordinary man left to himself is a creature of desires rather than of intel lectual study, inquiry or speculation. Man ceases to be primarily actuated by hopes and fears, loves and hates, only when he is subjected to a discipline which is foreign to human nature, which is, from the stand-

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point of natural man, artificial. Naturally our books, our scientific and philosophical books, are written by men who have subjected themselves in a superior degree to intellectual discipline and culture. Their thoughts are habitually reasonable. They have learned to check their fancies by facts, and to organize their ideas logically rather than emotionally and dramati cally. When they do indulge in reverie and day-dream ing which is probably more of the time than is con ventionally acknowledged they are aware of what they are doing. They label these excursions, and do not con fuse their results with objective experiences. We tend to judge others by ourselves, and because scientific and philosophic books are composed by men in whom the reasonable, logical and objective habit of mind predomi nates, a similar rationality has been attributed by them to the average and ordinary man. It is then overlooked that both rationality and irrationality are largely irrelevant and episodical in undisciplined human nature; that men are governed by memory rather than by thought, and that memory is not a remembering of actual facts, but is association, suggestion, dramatic fancy. The standard used to measure the value of the suggestions that spring up in the mind is not congruity with fact but emotional congeniality. Do they stimu late and reinforce feeling, and fit into the dramatic tale? Are they consonant with the prevailing mood, and can

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they be rendered into the traditional hopes and fears of the community? If we are willing to take the word dreams with a certain liberality, it is hardly too much to say that man, save in his occasional times of actual work and struggle, lives in a world of dreams, rather than of facts, and a world of dreams that is organized about desires whose success and frustration form its stuff.

To treat the early beliefs and traditions of mankind as if they were attempts at scientific explanation of the world, only erroneous and absurd attempts, is thus to be guilty of a great mistake. The material out of which philosophy finally emerges is irrelevant to science and to explanation. It is figurative, symbolic of fears and hopes, made of imaginations and suggestions, not significant of a world of objective fact intellectually confronted. It is poetry and drama, rather than science, and is apart from scientific truth and falsity, rationality or absurdity of fact in the same way in which poetry is independent of these things.

This original material has, however, to pass through at least two stages before it becomes philosophy proper. One is the stage in which stories and legends and their accompanying dramatizations are consolidated. At first the emotionalized records of experiences are largely casual and transitory. Events that excite the emotions of an individual are seized upon and lived over in tale

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and pantomime. But some experiences are so frequent and recurrent that they concern the group as a whole. They are socially generalized. The piecemeal adventure of the single individual is built out till it becomes repre sentative and typical of the emotional life of the tribe. Certain incidents affect the weal

and woe of the group in its entirety and thereby get an exceptional emphasis and elevation. A certain texture of tradition is built up; the story becomes a social heritage and possession; the pantomime develops into the stated rite. Tradition thus formed becomes a kind of norm to which individual fancy and suggestion conform. An abiding framework of imagination is constructed. A communal way of conceiving life grows up into which individuals are inducted by education. Both unconsciously and by definite social requirement individual memories are assimilated to group memory or tradition, and individual fancies are accommodated to the body of beliefs characteristic of a community. Poetry becomes fixated and systematized. The story becomes a social norm. The original drama which re-enacts an emotionally im portant experience is institutionalized into a cult. Sug gestions previously free are hardened into doctrines.

The systematic and obligatory nature of such doc trines is hastened and confirmed through conquests and political consolidation. As the area of a government is extended, there is a definite motive for systematizing

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and unifying beliefs once free and floating. Aside from natural accommodation and assimilation springing from the fact of intercourse and the needs of common under standing, there is often political necessity which leads the ruler to centralize traditions and beliefs in order to extend and strengthen his prestige and authority. Judea, Greece, Rome, and I presume all other countries having a long history, present records of a continual working over of earlier local rites and doctrines in the interests of a wider social unity and a more extensive political power. I shall ask you to assume with me that in this way the larger cosmogonies and cosmologies of the race as well as the larger ethical traditions have arisen. Whether this is literally so or not, it is not necessary to inquire, much less to demonstrate. It is enough for our purposes that under social influences there took place a fixing and organizing of doctrines and cults which gave general traits to the imagination and general rules to conduct, and that such a consolida tion was a necessary antecedent to the formation of any philosophy as we understand that term.

Although a necessary antecedent, this organization and generalization of ideas and principles of belief is not the sole and sufficient generator of philosophy. There is still lacking the motive for logical system and intellectual proof. This we may suppose to be furnished by trie need of reconciling the moral rules and ideals em-

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bodied in the traditional code with the matter of fact positivistic knowledge which gradually grows up. For man can never be wholly the creature of suggestion and fancy. The requirements of continued existence make indispensable some attention to the actual facts of the world. Although it is surprising how little check the environment actually puts upon the formation of ideas, since no notions are too absurd not to have been accepted by some people, yet the environment

does enforce a certain minimum of correctness under penalty of extinction. That certain things are foods, that they are to be found in certain places, that water drowns, fire burns, that sharp points penetrate and cut, that heavy things fall unless supported, that there is a certain regularity in the changes of day and night and the alternation of hot and cold, wet and dry: such prosaic facts force themselves upon even primitive attention. Some of them are so obvious and so important that they have next to no fanciful context. Auguste Comte says somewhere that he knows of no savage people who had a God of weight although every other natural quality or force may have been deified. Gradu ally there grows up a body of homely generalizations preserving and transmitting the wisdom of the race about the observed facts and sequences of nature. This knowledge is especially connected with industries, arts and crafts where observation of materials and processes

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is required for successful action, and where action is so continuous and regular that spasmodic magic will not suffice. Extravagantly fantastic notions are eliminated because they are brought into juxtaposition with what actually happens.

The sailor is more likely to be given to what we now term superstitions than say the weaver, because his activity is more at the mercy of sudden change and unforeseen occurrence. But even the sailor while he may regard the wind as the uncontrollable expression of the caprice of a great spirit, will still have to become acquainted with some purely mechanical principles of adjustment of boat, sails and oar to the wind. Fire may be conceived as a supernatural dragon because some time or other a swift, bright and devouring flame called before the mind s eye the quick-moving and dangerous serpent. But the housewife who tends the fire and the pots wherein food cooks will still be compelled to observe certain mechanical facts of draft and replenishment, and passage from wood to ash. Still more will the worker in metals accumulate verifiable details about the conditions and consequences of the operation of heat. He may retain for special and ceremonial occasions traditional beliefs, but everyday familiar use will expel these conceptions for the greater part of the time, when fire will be to him of uniform and prosaic behavior, controllable by practical relations of cause and effect.

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As the arts and crafts develop and become more elabo rate, the body of positive and tested knowledge enlarges, and the sequences observed become more complex and of greater scope. Technologies of this kind give that common-sense knowledge of nature out of which science takes its origin. They provide not merely a collection of positive facts, but they give expertness in dealing with materials and tools, and promote the development of the experimental habit of mind, as soon as an art can be taken away from the rule of sheer custom.

For a long time the imaginative body of beliefs closely connected with the moral habits of a community group and with its emotional indulgences and consolations

per sists side by side with the growing body of matter of fact knowledge. Wherever possible they are interlaced. At other points, their inconsistencies forbid their inter weaving, but the two things are kept apart as if in different compartments. Since one is merely super imposed upon the other their incompatibility is not felt, and there is no need of reconciliation. In most cases, the two kinds of mental products are kept apart because they become the possession of separate social classes. The religious and poetic beliefs having acquired a defi nite social and political value and function are in the keeping of a higher class directly associated with the ruling elements in the society. The workers and crafts men who possess the prosaic matter of fact knowledge

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are likely to occupy a low social status, and their kind of knowledge is affected by the social disesteem enter tained for the manual worker who engages in activities useful to the body. It doubtless was this fact in Greece which in spite of the keenness of observation, the ex traordinary power of logical reasoning and the great freedom of speculation attained by the Athenian, post poned the general and systematic employment of the experimental method. Since the industrial craftsman was only just above the slave in social rank, his type of knowledge and the method upon which it depended lacked prestige and authority.

Nevertheless, the time came when matter of fact knowledge increased to such bulk and scope that it came into conflict with not merely the detail but with the spirit and temper of traditional and imaginative beliefs. Without going into the vexed question of how and why, there is no doubt that this is just what happened in what we term the sophistic movement in Greece, within which originated philosophy proper in the sense in which the western world understands that term. The fact that the sophists had a bad name given them by Plato and Aristotle, a name they have never been able to shake off, is evidence that with the sophists the strife between the two types of belief was the emphatic thing, and that the conflict had a disconcerting effect upon the traditional system of religious beliefs and the

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moral code of conduct bound up with it. Although Socrates was doubtless sincerely interested in the recon ciliation of the two sides, yet the fact that he ap proached the matter from the side of matter of fact method, giving its canons and criteria primacy, was enough to bring him to the condemnation of death as a contemner of the gods and a corrupter of youth.

The fate of Socrates and the ill-fame of the sophists may be used to suggest some of the striking contrasts between traditional emotionalized belief on one hand and prosaic matter of fact knowledge on the other: the purpose of the comparison being to bring out the point that while all the advantages of what we call science were on the side of the latter, the advantages of social esteem and authority, and of intimate contact with what gives life its deeper lying values were on the side of traditional belief. To all appearances, the specific and verified

knowledge of the environment had only a limited and technical scope. It had to do with the arts, and the purpose and good of the artisan after all did not extend very far. They were subordinate and almost servile. Who would put the art of the shoe maker on the same plane as the art of ruling the state? Who would put even the higher art of the physician in healing the body, upon the level of the art of the priest in healing the soul? Thus Plato constantly

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draws the contrast in his dialogues. The shoemaker is a judge of a good pair of shoes, but he is no judge at all of the more important question whether and when it is good to wear shoes; the physician is a good judge of health, but whether it is a good thing or not to be well or better to die, he knows not. While the artisan is expert as long as purely limited technical questions arise, he is helpless when it comes to the only really important questions, the moral questions as to values. Consequently, his type of knowledge is inherently in ferior and needs to be controlled by a higher kind of knowledge which will reveal ultimate ends and purposes, and thus put and keep technical and mechanical knowl edge in its proper place. Moreover, in Plato s pages we find, because of Plato s adequate dramatic sense, a lively depicting of the impact in particular men of the conflict between tradition and the new claims of purely intellec tual knowledge. The conservative is shocked beyond measure at the idea of teaching the military art by abstract rules, by science. One does not just fight, one fights for one s country. Abstract science cannot convey love and loyalty, nor can it be a substitute, even upon the more technical side, for those ways and means of fighting in which devotion to the country has been traditionally embodied.

The way to learn the fighting art is through associa tion with those who have themselves learned to defend

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the country, by becoming saturated with its ideals and customs; by becoming in short a practical adept in the Greek tradition as to fighting. To attempt to derive abstract rules from a comparison of native ways of fighting with the enemies ways is to begin to go over to the enemies traditions and gods: it is to begin to be false to one s own country.

Such a point of view vividly realized enables us to appreciate the antagonism aroused by the positivistic point of view when it came into conflict with the tradi tional. The latter was deeply rooted in social habits and loyalties; it was surcharged with the moral aims for which men lived and the moral rules by which they lived. Hence it was as basic and as comprehensive as life itself, and palpitated with the warm glowing colors of the community life in which men realized their own being. In contrast, the positivistic knowledge was con cerned with merely physical utilities, and lacked the ardent associations of belief hallowed by sacrifices of ancestors and worship of contemporaries. Because of its limited and concrete character it was dry, hard, cold.

Yet the more acute and active minds, like that of Plato himself, could no longer be content to accept, along with the conservative citizen of the time, the old beliefs in the old way. The growth of positive knowledge and of the critical, inquiring spirit under-

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mined these in their old form. The advantages in definiteness, in accuracy, in verifiability were all on the side of the new knowledge. Tradition was noble in aim and scope, but uncertain in foundation. The un questioned life, said Socrates, was not one fit to be lived by man, who is a questioning being because he is a rational being. Hence he must search out the reason of things, and not accept them from custom and political authority. What was to be done? Develop a method of rational investigation and proof which should place the essential elements of traditional belief upon an unshak able basis; develop a method of thought and knowledge which while purifying tradition should preserve its moral and social values unimpaired; nay, by purify ing them, add to their power and authority. To put it in a word, that which had rested upon custom was to be restored, resting no longer upon the habits of the past, but upon the very metaphysics of Being and the Universe. Metaphysics is a substitute for custom as the source and guaranter of higher moral and social values that is the leading theme of the classic philosophy of Europe, as evolved by Plato and Aristotle a philosophy, let us always recall, renewed and restated by the Christian philosophy of Medieval Europe.

Out of this situation emerged, if I mistake not, the entire tradition regarding the function and office of

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philosophy which till very recently has controlled the systematic and constructive philosophies of the western world. If I am right in my main thesis that the origin of philosophy lay in an attempt to reconcile the two different types of mental product, then the key is in our hands as to the main traits of subsequent philosophy so far as that was not of a negative and heterodox kind. In the first place, philosophy did not develop in an unbiased way from an open and unprejudiced origin. It had its task cut out for it from the start. It had a mission to perform, and it was sworn in advance to that mission. It had to extract the essential moral kernel out of the threatened traditional beliefs of the past. So far so good; the work was critical and in the interests of the only true conservatism that which will conserve and not waste the values wrought out by humanity. But it was also precommitted to extracting this moral essence in a spirit congenial to the spirit of past be liefs. The association with imagination and with social authority was too intimate to be deeply disturbed. It was not possible to conceive of the content of social institutions in any form radically different from that in which they had existed in the past. It became the work of philosophy to justify on rational grounds the spirit, though not the form, of accepted beliefs and traditional customs.

The resulting philosophy seemed radical enough and

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even dangerous to the average Athenian because of the difference of form and method. In the sense of pruning away excrescences and eliminating factors which to the average citizen were all one with the basic beliefs, it was radical. But looked at in the perspective of history and in contrast with different types of thought which developed later in different social environments, it is now easy to see how profoundly, after all, Plato and Aristotle reflected the meaning of Greek tradition and habit, so that their writings remain, with the writings of the great dramatists, the best introduction of a stu dent into the innermost ideals and aspirations of distinctively Greek life. Without Greek religion, Greek art, Greek civic life, their philosophy would have been impossible; while the effect of that science upon which the philosophers most prided themselves turns out to have been superficial and negligible. This apologetic spirit of philosophy is even more apparent when Medie val Christianity about the twelfth century sought for a systematic rational presentation of itself and made use of classic philosophy, especially that of Aristotle, to justify itself to reason. A not unsimilar occurrence characterizes the chief philosophic systems of Germany in the early nineteenth century, when Hegel assumed the task of justifying in the name of rational idealism the doctrines and institutions which were menaced by the new spirit of science and popular government. The

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result has been that the great systems have not been free from party spirit exercised in behalf of pre conceived beliefs. Since they have at the same time professed complete intellectual independence and ration ality, the result has been too often to impart to philoso phy an element of insincerity, all the more insidious be cause wholly unconscious on the part of those who sustained philosophy.

And this brings us to a second trait of philosophy springing from its origin. Since it aimed at a rational justification of things that had been previously accepted because of their emotional congeniality and social pres tige, it had to make much of the apparatus of reason and proof. Because of the lack of intrinsic rationality in the matters with which it dealt, it leaned over back ward, so to speak, in parade of logical form. In dealing with matters of fact, simpler and rougher ways of demonstration may be resorted to. It is enough, so to say, to produce the fact in question and point to it the fundamental form of all demonstration. But when it comes to convincing men of the truth of doctrines which are no longer to be accepted upon the say-so of custom and social authority, but which also are not capable of empirical verification, there is no recourse save to magnify the signs of rigorous thought and rigid demonstration. Thus arises that appearance of ab stract definition and ultra-scientific argumentation

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which repels so many from philosophy but which has been one of its chief

attractions to its devotees.

At the worst, this has reduced philosophy to a show of elaborate terminology, a hair-splitting logic, and a fictitious devotion to the mere external forms of com- prehensive and minute demonstration. Even at the best, it has tended to produce an overdeveloped attach ment to system for its own sake, and an over-pretentious claim to certainty. Bishop Butler declared that probability is the guide of life; but few philosophers have been courageous enough to avow that philosophy can be satisfied with anything that is merely probable. The customs dictated by tradition and desire had claimed finality and immutability. They had claimed to give certain and unvarying laws of conduct. Very early in its history philosophy made pretension to a similar collusiveness, and something of this temper has clung to classic philosophies ever since. They have insisted that they were more scientific than the sciences that, indeed, philosophy was necessary because after all the special sciences fail in attaining final and complete truth. There have been a few dissenters who have ven tured to assert, as did William James, that "philosophy is vision" and that its chief function is to free men s minds from bias and prejudice and to enlarge their perceptions of the world about them. But in the main philosophy has set up much more ambitious pretensions.

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To say frankly that philosophy can proffer nothing but hypotheses, and that these hypotheses are of value only as they render men s minds more sensitive to life about them, would seem like a negation of philosophy itself.

In the third place, the body of beliefs dictated by desire and imagination and developed under the in fluence of communal authority into an authoritative tradition, was pervasive and comprehensive. It was, so to speak, omnipresent in all the details of the group life. Its pressure was unremitting and its influence universal. It was then probably inevitable that the rival principle, reflective thought, should aim at a simi lar universality and comprehensiveness. It would be as inclusive and far-reaching metaphysically as tradi tion had been socially. Now there was just one way in which this pretension could be accomplished in con junction with a claim of complete logical system and certainty.

All philosophies of the classic type have made a fixed and fundamental distinction between two realms of existence. One of these corresponds to the re ligious and supernatural world of popular tradition, which in its metaphysical rendering became the world of highest and ultimate reality. Since the final source and sanction of all important truths and rules of con duct in community life had been found in superior and

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unquestioned religious beliefs, so the absolute and supreme reality of philosophy afforded the only sure guaranty of truth about empirical matters, and the sole rational guide to proper social institutions and indi vidual behavior. Over against

this absolute and noume- nal reality which could be apprehended only by the systematic discipline of philosophy itself stood the ordi nary empirical, relatively real, phenomenal world of everyday experience. It was with this world that the practical affairs and utilities of men were connected. It was to this imperfect and perishing world that mat ter of fact, positivistic science referred.

This is the trait which, in my opinion, has affected most deeply the classic notion about the nature of philosophy. Philosophy has arrogated to itself the office of demonstrating the existence of a transcendent, absolute or inner reality and of revealing to man the nature and features of this ultimate and higher reality. It has therefore claimed that it was in possession of a higher organ of knowledge than is employed by posi tive science and ordinary practical experience, and that it is marked by a superior dignity and importance a claim which is undeniable if philoso phy leads man to proof and intuition of a Reality be youd that open to day-by-day life and the special sciences.

This claim has, of course, been denied by various

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philosophers from time to time. But for the most part these denials have been agnostic and sceptical. They have contented themselves with asserting that absolute and ultimate reality is beyond human ken. But they have not ventured to deny that such Reality would be the appropriate sphere for the exercise of philosophic knowledge provided only it were within the reach of human intelligence. Only comparatively recently has another conception of the proper office of philosophy arisen. This course of lectures will be devoted to setting forth this different conception of philosophy in some of its main contrasts to what this lecture has termed the classic conception. At this point, it can be referred to only by anticipation and in cursory fashion. It is implied in the account which has been given of the origin of philosophy out of the background of an authoritative tradition; a tradition originally dictated by man s imagination working under the influence of love and hate and in the interest of emotional excite ment and satisfaction. Common frankness requires that it be stated that this account of the origin of philoso phies claiming to deal with absolute Being in a sys tematic way has been given with malice prepense. It seems to me that this genetic method of approach is a more effective way of undermining this type of philo sophic theorizing than any attempt at logical refutation could be.

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If this lecture succeeds in leaving in your minds as a reasonable hypothesis the idea that philosophy origi nated not out of intellectual material, but out of social and emotional material, it will also succeed in leaving with you a changed attitude toward traditional philoso phies. They will be viewed from a new angle and placed in a new light. New questions about them will be aroused and new standards for judging them will be suggested.

If any one will commence without mental reservations to study the history of

philosophy not as an isolated thing but as a chapter in the development of civilization and culture; if one will connect the story of philosophy with a study of anthropology, primitive life, the history of religion, literature and social institutions, it is confidently asserted that he will reach his own independent judgment as to the worth of the account which has been presented today. Considered in this way, the history of philosophy will take on a new significance. What is lost from the standpoint of would-be science is regained from the standpoint of humanity. Instead of the disputes of rivals about the nature of reality, we have the scene of human clash of social purpose and aspirations. Instead of impossible attempts to tran scend experience, we have the significant record of the efforts of men to formulate the things of experience to which they are most deeply and passionately attached.

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Instead of impersonal and purely speculative endeavors to contemplate as remote beholders the nature of abso lute things-in-themselves, we have a living picture of the choice of thoughtful men about what they would have life to be, and to what ends they would have men shape their intelligent activities.

Any one of you who arrives at such a view of past philosophy will of necessity be led to entertain a quite definite conception of the scope and aim of future philosophizing. He will inevitably be committed to the notion that what philosophy has been unconsciously, without knowing or intending it, and, so to speak, under cover, it must henceforth be openly and deliberately. When it is acknowledged that under disguise of dealing with ultimate reality, philosophy has been occupied with the precious values embedded in social traditions, that it has sprung from a clash of social ends and from a conflict of inherited institutions with incompatible con temporary tendencies, it will be seen that the task of future philosophy is to clarify men s ideas as to the social and moral strifes of their own day. Its aim is to become so far as is humanly possible an organ for deal ing with these conflicts. That which may be preten tiously unreal when it is formulated in metaphysical distinctions becomes intensely significant when connected with the drama of the struggle of social beliefs and ideals. Philosophy which surrenders its somewhat

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barren monopoly of dealings with Ultimate and Abso lute Reality will find a compensation in enlightening the moral forces which move mankind and in contribut ing to the aspirations of men to attain to a more ordered and intelligent happiness.

CHAPTER II

SOME HISTORICAL FACTORS IN PHILOSOPHI CAL RECONSTRUCTION

FRANCIS BACON of the Elizabethan age is the great forerunner of the spirit of modern life. Though slight in accomplishment, as a prophet of new tendencies he is an outstanding figure of the world's intellectual life. Like many another

prophet he suffers from confused intermingling of old and new. What is most significant in him has been rendered more or less familiar by the later course of events. But page after page is filled with matter which belongs to the past from which Bacon thought he had escaped. Caught between these two sources of easy disparagement, Bacon hardly re ceives his due as the real founder of modern thought, while he is praised for merits which scarcely belong to him, such as an alleged authorship of the specific methods of induction pursued by science. What makes Bacon memorable is that breezes blowing from a new world caught and filled his sails and stirred him to ad venture in new seas. He never himself discovered the land of promise, but he proclaimed the new goal and by faith he descried its features from afar.

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The main traits of his thought put before our mind the larger features of a new spirit which was at work in causing intellectual reconstruction. They may suggest the social and historical forces out of which the new spirit was born. The best known aphorism of Bacon is that Knowledge is Power. Judged by this pragmatic criterion, he condemned the great body of learning then extant as not -knowledge, as pseudo- and pretentious- knowledge. For it did not give power. It was otiose, not operative. In his most extensive discussion he classified the learning of his day under three heads, delicate, fantastic and contentious. Under delicate learning, he included the literary learning which through the influence of the revival of ancient languages and literatures occupied so important a place in the intellec tual life of the Renaissance. Bacon s condemnation is the more effective because he himself was a master of the classics and of all the graces and refinements which this literary study was intended to convey. In sub stance he anticipated most of the attacks which educational reformers since his time have made upon one sided literary culture. It contributed not to power but to ornament and decoration. It was ostentatious and luxurious. By fantastic learning he meant the quasi- magical science that was so rife all over Europe in the sixteenth century wild developments of alchemy, astrology, etc. Upon this he poured his greatest vials

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of wrath because the corruption of the good is the worst of evils. Delicate learning was idle and vain, but fantastic learning aped the form of true knowledge. It laid hold of the true principle and aim of knowledge control of natural forces. But it neglected the conditions and methods by which alone such knowledge could be obtained, and thus deliberately led men astray.

For our purposes, however, what he says about con tentious learning is the most important. For by this, he means the traditional science which had come down, in scanty and distorted measure to be sure, from antiquity through scholasticism. It is called contentious both because of the logical method used and the end to which it was put. In a certain sense it aimed at power, but power over other

men in the interest of some class or sect or person, not power over natural forces in the common interest of all. Bacon's conviction of the quar relsome, self-displaying character of the scholarship which had come down from antiquity was of course not so much due to Greek science itself as to the degenerate heritage of scholasticism in the fourteenth century, when philosophy had fallen into the hands of disputatious theologians, full of hair-splitting argumentativeness and quirks and tricks by which to win victory over somebody else.

But Bacon also brought his charge against the Aristotelian method itself. In its rigorous forms it

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aimed at demonstration, and in its milder forms at persuasion. But both demonstration and persuasion aim at conquest of mind rather than of nature. More over they both assume that some one is already in pos session of a truth or a belief, and that the only problem is to convince some one else, or to teach. In contrast, his new method had an exceedingly slight opinion of the amount of truth already existent, and a lively sense of the extent and importance of truths still to be attained. It would be a logic of discovery, not a logic of argu mentation, proof and persuasion. To Bacon, the old logic even at its best was a logic for teaching the already known, and teaching meant indoctrination, discipling. It was an axiom of Aristotle that only that which was already known could be learned, that growth in knowl edge consisted simply in bringing together a universal truth of reason and a particular truth of sense which had previously been noted separately. In any case, learning meant growth of knowledge, and growth be longs in the region of becoming, change, and hence is inferior to possession of knowledge in the syllogistic self-revolving manipulation of what was already known demonstration.

In contrast with this point of view, Bacon eloquently proclaimed the superiority of discovery of new facts and truths to demonstration of the old. Now there is only one road to discovery, and that is penetrating in-

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quiry into the secrets of nature. Scientific principles and laws do not lie on the surface of nature. They are hidden, and must be wrested from nature by an active and elaborate technique of inquiry. Neither logical reasoning nor the passive accumulation of any number of observations which the ancients called experience suffices to lay hold of them. Active experimentation must force the apparent facts of nature into forms different to those in which they familiarly present them selves; and thus make them tell the truth about them selves, as torture may compel an unwilling witness to re veal what he has been concealing. Pure reasoning as a means of arriving at truth is like the spider who spins a web out of himself. The web is orderly and elaborate, but it is only a trap. The passive accumulation of experiences the traditional empirical method is like the ant who busily runs about and collects and piles up heaps of raw materials. True method, that which Bacon would usher in, is comparable to the operations of

the bee who, like the ant, collects material from the external world, but unlike that industrious creature attacks and modifies the collected stuff in order to make it yield its hidden treasure.

Along with this contrast between subjugation of na ture and subjection of other minds and the elevation of a method of discovery above a method of demonstration, went Bacon's sense of progress as the aim and

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test of genuine knowledge. According to his criticisms, the classic logic, even in its Aristotelian form, inevitably played into the hands of inert conservatism. For in accustoming the mind to think of truth as already known, it habituated men to fall back on the intellectual attainments of the past, and to accept them without critical scrutiny. Not merely the medieval but the renaissance mind tended to look back to antiquity as a Golden Age of Knowledge, the former relying upon sacred scriptures, the latter upon secular literatures. And while this attitude could not fairly be charged up against the classic logic, yet Bacon felt, and with justice, that any logic which identified the technique of knowing with demonstration of truths already pos sessed by the mind, blunts the spirit of investigation and confines the mind within the circle of traditional learn ing.

Such a logic could not avoid having for its salient features definition of what is already known (or thought to be known), and its systematization according to recognized canons of orthodoxy. A logic of discovery on the other hand looks to the future. Received truth it regards critically as something to be tested by new experiences rather than as something to be dogmatically taught and obediently received. Its chief interest in even the most carefully tested ready-made knowledge is the use which may be made of it in further inquiries

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and discoveries. Old truth has its chief value in assist ing the detection of new truth. Bacon s own apprecia tion of the nature of induction was highly defective. But his acute sense that science means invasion of the unknown, rather than repetition in logical form of the already known, makes him nevertheless the father of induction. Endless and persistent uncovering of facts and principles not known such is the true spirit of induction. Continued progress in knowledge is the only sure way of protecting old knowledge from degeneration into dogmatic doctrines received on authority, or from imperceptible decay into superstition and old wives tales.

Ever-renewed progress is to Bacon the test as well as the aim of genuine logic. Where, Bacon constantly demands, where are the works, the fruits, of the older logic? What has it done to ameliorate the evils of life, to rectify defects, to improve conditions? Where are the inventions that justify its claim to be in possession of truth? Beyond the victory of man over man in law courts, diplomacy and political administration, they are nil. One had to turn from admired "sciences" to despised arts to find works, fruits, consequences of value

to human kind through power over natural forces. And progress in the arts was as yet intermittent, fitful, accidental. A true logic or technique of inquiry would make advance in the industrial, agricultural and medi-

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cal arts continuous, cumulative and deliberately sys tematic.

If we take into account the supposed body of ready- made knowledge upon which learned men rested in supine acquiescence and which they recited in parrot-like chorus, we find it consists of two parts. One of these parts is made up of the errors of our ances tors, musty with antiquity and organized into pseudo-science through the use of the classic logic. Such " truths " are in fact only the systematized mistakes and prejudices of our ancestors. Many of them origi nated in accident; many in class interest and bias, per petuated by authority for this very reason a consideration which later actuated Locke's attack upon the doctrine of innate ideas. The other portion of accepted beliefs comes from instinctive tendencies of the human mind that give it a dangerous bias until counteracted by a conscious and critical logic.

The mind of man spontaneously assumes greater sim plicity, uniformity and unity among phenomena than actually exists. It follows superficial analogies and jumps to conclusions; it overlooks the variety of de tails and the existence of exceptions. Thus it weaves a web of purely internal origin which it imposes upon nature. What had been termed science in the past con sisted of this humanly constructed and imposed web. Men looked at the work of their own minds and thought

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they were seeing realities in nature. They were wor shipping, under the name of science, the idols of their own making. So-called science and philosophy con sisted of these "anticipations" of nature. And the worst thing that could be said about traditional logic was that instead of saving man from this natural source of error, it had, though attributing to nature a false rationality of unity, simplicity and generality, sanc tioned these sources of delusion. The office of the new logic would be to protect the mind against itself: to teach it to undergo a patient and prolonged appren ticeship to fact in its infinite variety and particularity: to obey nature intellectually in order to command it practically. Such was the significance of the new logic the new tool or organon of learning, so named in express opposition to the organon of Aristotle.

Certain other important oppositions are implied. Aristotle thought of reason as capable of solitary com munion with rational truth. The counterpart of his celebrated saying that man is a political animal, is that Intelligence, Nous, is neither animal, human nor political. It is divinely unique and self-enclosed. To Bacon, error had been produced and perpetuated by social in fluences, and truth must be discovered by social agencies organized for that purpose. Left to himself, the individual can do little or nothing; he is likely to become involved

in his own self-spun web of misconceptions.

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The great need is the organization of co-operative re search, whereby men attack nature collectively and the work of inquiry is carried on continuously from genera tion to generation. Bacon even aspired to the rather absurd notion of a method so perfected that differences in natural human ability might be discounted, and all be put on the same level in production of new facts and new truths. Yet this absurdity was only the nega tive side of his great positive prophecy of a combined and co-operative pursuit of science such as characterizes our own day. In view of the picture he draws in his New Atlantis of a State organized for collective inquiry, we readily forgive him his exaggerations.

Power over nature was not to be individual but col lective; the Empire, as he says, of Man over Nature, substituted for the Empire of Man over Man. Let us employ Bacon s own words with their variety of pic turesque metaphor: "Men have entered into the desire of learning and knowledge, . . . seldom sincerely to give a true account of their gift of reason, to the benefit and use of men, but as if they sought in knowledge a couch whereon to rest a searching and wandering spirit; or a terrace for a wandering and variable mind to walk up and down with a fair prospect; or a tower for a proud mind to raise itself upon; or a fort or command ing ground for strife and contention; or a shop for profit and sale; and not a rich storehouse for the glory

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of the creator and the relief of man's estate." When William James called Pragmatism a New Name for an Old Way of Thinking, I do not know that he was think ing expressly of Francis Bacon, but so far as concerns the spirit and atmosphere of the pursuit of knowledge, Bacon may be taken as the prophet of a pragmatic conception of knowledge. Many misconceptions of its spirit would be avoided if his emphasis upon the social factor in both the pursuit and the end of knowledge were carefully obsejived.

This somewhat over-long resume of Bacon s ideas has not been gone into as a matter of historic retrospect. The summary is rather meant to put before our minds an authentic document of the new philosophy which may bring into relief the social causes of intellectual revolution. Only a sketchy account can be here attempted, but it may be of some assistance even barely to remind you of the direction of that industrial, political and religious change upon which Europe was entering.

Upon the industrial side, it is impossible, I think, to exaggerate the influence of travel, exploration and new commerce which fostered a romantic sense of ad venture into novelty; loosened the hold of traditional beliefs; created a lively sense of new worlds to be investigated and subdued; produced new methods of manufac ture, commerce, banking and finance; and then reacted everywhere to stimulate invention, and to intro-

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duce positive observation and active experimentation into science. The Crusades, the revival of the profane learning of antiquity and even more perhaps, the con tact with the advanced learning of the Mohammedans, the increase of commerce with Asia and Africa, the introduction of the lens, compass and gunpowder, the finding and opening up of North and South America most significantly called The New World these are some of the obvious external facts. Contrast between peoples and races previously isolated is always, I think, most fruitful and influential for change when psycho logical and industrial changes coincide with and rein force each other. Sometimes people undergo emotional change, what might almost be called a metaphysical change, through intercourse. The inner set of the mind, especially in religious matters, is altered. At other times, there is a lively exchange of goods, an adoption of foreign tools and devices, an imitation of alien habits of clothing, habitation and production of commodities. One of these changes is, so to speak, too internal and the other too external to bring about a profound intellectual development. But when the creation of a new mental attitude falls together with extensive material and economic changes, something significant happens.

This coincidence of two kinds of change was, I take it, characteristic of the new contacts of the sixteenth and seventeenth centuries. Clash of customs and traditional

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beliefs dispelled mental inertia and sluggishness; it aroused a lively curiosity as to different and new ideas. The actual adventure of travel and exploration purged the mind of fear of the strange and unknown: as new territories geographically and commercially speaking were opened up, the mind was opened up. New contacts promoted the desire for still more contacts; the appetite for novelty and discovery grew by what it fed upon. Conservative adherence to old beliefs and methods underwent a steady attrition with every new voyage into new parts and every new report of foreign ways. The mind became used to exploration and discovery. It found a delight and interest in the revelations of the novel and the unusual which it no longer took in what was old and customary. Moreover, the very act of exploration, of expedition, the process of enterprising adventure into the remote, yielded a peculiar joy and thrill.

This psychological change was essential to the birth of the new point of view in science and philosophy. Yet alone it could hardly have produced the new method of knowing. But positive changes in the habits and purposes of life gave objective conformation and sup port to the mental change. They also determined the channels in which the new spirit found exercise. New found wealth, the gold from the Americas and new articles of consumption and enjoyment, tended to wean men

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from preoccupation with the metaphysical and theologi cal, and to turn their minds with newly awakened in terest to the joys of nature and this life. New material resources and new markets in America and India under mined the old dependence upon household and manual production for a local and limited market, and generated quantitative, large scale production by means of steam for foreign and expanding markets. Capitalism, rapid transit, and production for exchange against money and for profit, instead of against goods and for consumption, followed.

This cursory and superficial reminder of vast and complicated events may suggest the mutual interde pendence of the scientific revolution and the industrial revolution. Upon the one hand, modern industry is so much applied science. No amount of desire to make money, or to enjoy new commodities, no amount of mere practical energy and enterprise, would have effected the economic transformation of the last few centuries and generations. Improvements in mathematical, physical, chemical and biological science were prerequisites. Business men through engineers of different sorts, have laid hold of the new insights gained by scientific men into the hidden energies of nature, and have turned them to account. The modern mine, factory, railway, steamship, telegraph, all of the appliances and equip ment of production, and transportation, express scienti-

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fie knowledge. They would continue unimpaired even if the ordinary pecuniary accompaniments of economic activity were radically altered. In short, through the intermediary of invention, Bacon s watchword that knowledge is power and his dream of continuous empire over natural forces by means of natural science have been actualized. The industrial revolution by steam and electricity is the reply to Bacon s prophecy.

On the other hand, it is equally true that the needs of modern industry have been tremendous stimuli to scientific investigation. The demands of progressive production and transportation have set new problems to inquiry; the processes used in industry have sug gested new experimental appliances and operations in science; the wealth rolled up in business has to some ex tent been diverted to endowment of research. The un interrupted and pervasive interaction of scientific dis covery and industrial application has fructified both science and industry, and has brought home to the con temporary mind the fact that the gist of scientific knowledge is control of natural energies. These four facts, natural science, experimentation, control and progress have been inextricably bound up together. That up to the present the application of the newer methods and results has influenced the means of life rather than its ends; or, better put, that human aims have so far been affected in an accidental rather than

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in an intelligently directed way, signifies that so far the change has been technical rather than human and moral, that it has been economic rather than adequately social. Put in the language of Bacon, this means that while we have been

reasonably successful in obtaining com mand of nature by means of science, our science is not yet such that this command is systematically and pre eminently applied to the relief of human estate. Such applications occur and in great numbers, but they are incidental, sporadic and external. And this limitation defines the specific problem of philosophical re construction at the present time. For it emphasizes the larger social deficiencies that require intelligent diagnosis, and projection of aims and methods.

It is hardly necessary to remind you however that marked political changes have already followed upon the new science and its industrial applications, and that in so far some directions of social development have at least been marked out. The growth of the new technique of industry has everywhere been followed by the fall of feudal institutions, in which the social pattern was formed in agricultural occupations and military pur suits. Wherever business in the modern sense has gone, the tendency has been to transfer power from land to financial capital, from the country to the city, from the farm to factory, from social titles based on personal allegiance, service and protection, to those based on

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control of labor and exchange of goods. The change in the political centre of gravity has resulted in emanci pating the individual from bonds of class and custom and in producing a political organization which depends less upon superior authority and more upon voluntary choice. Modern states, in other words, are regarded less as divine, and more as human works than they used to be; less as necessary manifestations of some supreme and over-ruling principles, and more as con trivances of men and women to realize their own desires. The contract theory of the origin of the state is a theory whose falsity may easily be demonstrated both philosophically and historically. Nevertheless this theory has had great currency and influence. In form, it stated that some time in the past men voluntarily got together and made a compact with one another to observe certain laws and to submit to certain authority and in that way brought the state and the relation of ruler and subject into existence. Like many things in philosophy, the theory, though worthless as a record of fact, is of great worth as a symptom of the direction of human desire. It testified to a growing belief that the state existed to satisfy human needs and could be shaped by human intention and volition. Aristotle's theory that the state exists by nature failed to satisfy the thought of the seventeenth century because it seemed by making the state a product of nature to re-

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move its constitution beyond human choice. Equally significant was the assumption of the contract theory that individuals by their personal decisions expressing their personal wishes bring the state into existence. The rapidity with which the theory gained a hold all over western Europe showed the extent to which the bonds of customary institutions had relaxed their grip. It proved that men had been so liberated from absorption in larger groups that they were conscious of

themselves as individuals having rights and claims on their own account, not simply as members of a class, guild or social grade.

Side by side with this political individualism went a religious and moral individualism. The metaphysical doctrine of the superiority of the species to the individual, of the permanent universal to the changing par ticular, was the philosophic support of political and ecclesiastical institutionalism. The universal church was the ground, end and limit of the individual s beliefs and acts in spiritual matters, just as the feudal hier archical organization was the basis, law and fixed limit of his behavior in secular affairs. The northern bar barians had never completely come under the sway of classic ideas and customs. That which was indigenous where life was primarily derived from Latin sources was borrowed and more or less externally imposed in Germanic Europe. Protestantism marked the formal

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breaking away from the domination of Roman ideas. It effected liberation of individual conscience and wor ship from control by an organized institution claiming to be permanent and universal. It cannot truly be said that at the outset the new religious movement went far in promoting freedom of thought and criticism, or in denying the notion of some supreme authority to which individual intelligence was absolutely in bonds. Nor at first did it go far in furthering tolerance or respect for divergency of moral and religious convictions. But practically it did tend to disintegration of established institutions. By multiplying sects and churches it en couraged at least a negative toleration of the right of individuals to judge ultimate matters for themselves. In time, there developed a formulated belief in the sacred- ness of individual conscience and in the right to freedom of opinion, belief and worship.

It is unnecessary to point out how the spread of this conviction increased political individualism, or how it accelerated the willingness of men to question received ideas in science and philosophy to think and observe and experiment for themselves. Religious individualism served to supply a much needed sanction to initiative and independence of thought in all spheres, even when re ligious movements officially were opposed to such free dom when carried beyond a limited point. The greatest influence of Protestantism was, however, in developing

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the idea of the personality of every human being as an end in himself. When human beings were regarded as capable of direct relationship with God, without the intermediary of any organization like the Church, and the drama of sin, redemption and salvation was some thing enacted within the innermost soul of individuals rather than in the species of which the individual was a subordinate part, a fatal blow was struck at all doc trines which taught the subordination of personality a blow which had many political reverberations in promoting democracy. For when in religion the idea of the intrinsic worth of every soul as

such was proclaimed, it was difficult to keep the idea from spilling over, so to say, into secular relationships.

The absurdity is obvious of trying in a few para graphs to summarize movements in industry, politics and religion whose influence is still far from exhausted and about which hundreds and thousands of volumes have been written. But I shall count upon your forbearance to recall that these matters are alluded to only in order to suggest some of the forces that operated to mark out the channels in which new ideas ran. First, there is the transfer of interest from the eternal and universal to what is changing and specific, concrete a movement that showed itself practically in carrying over of attention and thought from another world to this, from the supematuralism characteristic of the Middle Ages

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to delight in natural science, natural activity and natural intercourse. Secondly, there is the gradual decay of the authority of fixed institutions and class distinctions and relations, and a growing belief in the power of individual minds, guided by methods of obser vation, experiment and reflection, to attain the truths needed for the guidance of life. The operations and results of natural inquiry gained in prestige and power at the expense of principles dictated from high authority.

Consequently principles and alleged truths are judged more and more by criteria of their origin in experience and their consequences of weal and woe in experience, and less by criteria of sublime origin from beyond everyday experience and independent of fruits in experience. It is no longer enough for a princi ple to be elevated, noble, universal and hallowed by time. It must present its birth certificate, it must show under just what conditions of human experience it was gen erated, and it must justify itself by its works, present and potential. Such is the inner meaning of the modern appeal to experience as an ultimate criterion of value and validity. In the third place, great store is set upon the idea of progress. The future rather than the past dominates the imagination. The Golden Age lies ahead of us not behind us. Everywhere new possibilities beckon and arouse courage and effort. The great

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French thinkers of the later eighteenth century bor rowed this idea from Bacon and developed it into the doctrine of the indefinite perfectibility of mankind on earth. Man is capable, if he will but exercise the re quired courage, intelligence and effort, of shaping his own fate. Physical conditions offer no insurmountable barriers. In the fourth place, the patient and experi mental study of nature, bearing fruit in inventions which control nature and subdue her forces to social uses, is the method by which progress is made. Knowl edge is power and knowledge is achieved by sending the mind to school to nature to learn her processes of change.

In this lecture as in the previous one, I can hardly close better than by reference

to the new responsibilities imposed upon philosophy and the new opportunities opened to it. Upon the whole, the greatest effect of these changes up to date has been to substitute an Idealism based on epistemology, or the theory of knowl edge, for the Idealism based on the metaphysics of classic antiquity.

Earlier modern philosophy (even though uncon sciously to itself) had the problem of reconciling the traditional theory of the rational and ideal basis, stuff and end of the universe with the new interest in indi vidual mind and the new confidence in its capacities. It was in a dilemma, On the one hand, it had no intention

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of losing itself in a materialism which subordinated man to physical existence and mind to matter especially just at the moment when in actual affairs man and mind were beginning to achieve genuine rule over nature. On the other hand, the conception that the world as it stood was an embodiment of a fixed and comprehensive Mind or Reason was uncongenial to those whose main concern was with the deficiencies of the world and with an attempt to remedy them. The effect of the objective theological idealism that had developed out of classic metaphysical idealism was to make the mind submissive and acquiescent. The new individualism chafed under the restrictions imposed upon it by the notion of a uni versal reason which had once and for all shaped nature and destiny.

In breaking away from antique and medieval thought, accordingly, early modern thought continued the older tradition of a Reason that creates and constitutes the world, but combined it with the notion that this Reason operates through the human mind, individual or collective. This is the common note of idealism sounded by all the philosophies of the seventeenth and eighteenth centuries, whether belonging to the British school of Locke, Berkeley and Hume or the Continental school of Descartes. In Kant as everybody knows the two strains came together; and the theme of the formation of the knowable world by means of a thought that

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operated exclusively through the human knower became explicit. Idealism ceased to be metaphysical and cosmic in order to become epistemological and personal.

It is evident that this development represents merely a transitional stage. It tried, after all, to put the new wine in the old bottles. It did not achieve a free and unbiased formulation of the meaning of the power to direct nature s forces through knowledge that is, purposeful, experimental action acting to reshape be liefs and institutions. The ancient tradition was still strong enough to project itself unconsciously into men s ways of thinking, and to hamper and compromise the expression of the really modern forces and aims. Es sential philosophic reconstruction represents an attempt to state these causes and results in a way freed from incompatible inherited factors. It will regard intelli gence not as the original shaper and final cause of things, but as the purposeful energetic re-shaper of those phases of nature and life that obstruct social well-being. It

esteems the individual not as an exag geratedly self-sufficient Ego which by some magic creates the world, but as the agent who is responsible through initiative, inventiveness and intelligently directed labor for re-creating the world, transforming it into an instrument and possession of intelligence.

The train of ideas represented by the Baconian Knowledge is Power thus failed in getting an emanci-

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pated and independent expression. These become hope lessly entangled in standpoints and prepossessions that embodied a social, political and scientific tradition with which they were completely incompatible. The ob scurity, the confusion of modern philosophy is the product of this attempt to combine two things which cannot possibly be combined either logically or morally. Philosophic reconstruction for the present is thus the endeavor to undo the entanglement and to permit the Baconian aspirations to come to a free and un hindered expression. In succeeding lectures we shall consider the needed reconstruction as it affects certain classic philosophic antitheses, like those of experience and reason, the real and the ideal. But first we shall have to consider the modifying effect exercised upon philosophy by that changed conception of nature, ani mate and inanimate, which we owe to the progress of science.

CHAPTER III

THE SCIENTIFIC FACTOR IN RECONSTRUCTION OF PHILOSOPHY

PHILOSOPHY starts from some deep and wide way of responding to the difficulties life presents, but it grows only when material is at hand for making this practical response conscious, articulate and communicable. Ac companying the economic, political and ecclesiastical changes which were alluded to in an earlier lecture, was a scientific revolution enormous in scope and leaving un changed almost no detail of belief about nature, physical and human. In part this scientific transformation was produced by just the change in practical attitude and temper. But as it progressed, it furnished that change an appropriate vocabulary, congenial to its needs, and made it articulate. The advance of science in its larger generalizations and in its specific detail of fact supplied precisely that intellectual equipment of ideas and concrete fact that was needed in order to formulate, precipitate, communicate and propagate the new disposition. Today, accordingly, we shall deal with those contrasting conceptions of the structure and constitution of Nature, which when they are accepted on the

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authority of science (alleged or real), form the intel lectual framework of philosophy.

Contrasting conceptions of ancient and modern science have been selected. For I see no way in which the truly philosophic import of the picture of the world

painted by modern science can be appreciated except to exhibit it in contrast with that earlier picture which gave classic metaphysics its intellectual founda tion and confirmation. The world in which philoso phers once put their trust was a closed world, a world consisting internally of a limited number of fixed forms, and having definite boundaries externally. The world of modern science is an open world, a world varying in definitely without the possibility of assignable limit in its internal make-up, a world stretching beyond any assignable bounds externally. Again, the w r orld in which even the most intelligent men of olden times thought they lived was a fixed world, a realm where changes went on only within immutable limits of rest and permanence, and a world where the fixed and un-moving was, as we have already noted, higher in quality and authority than the moving and altering. And in the third place, the world which men once saw with their eyes, portrayed in their imaginations and re peated in their plans of conduct, was a world of a limited number of classes, kinds, forms, distinct in quality (as kinds and species must be distinct) and

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arranged in a graded order of superiority and inferiority.

It is not easy to recall the image of the universe which was taken for granted in the world tradition. In spite of its dramatic rendering (as in Dante), of the dialectical elaborations of Aristotle and St. Thomas, in spite of the fact that it held men s minds captive until the last three hundred years, and that its overthrow involved a religious upheaval, it is already dim, faded and remote. Even as a separate and abstract thing of theory it is not easy to recover.

As something pervasive, interwoven with all the de tails of reflection and observation, with the plans and rules of behavior, it is impossible to call it back again. Yet, as best we can, we need to put before our minds a definitely enclosed universe, something which can be called a universe in a literal and visible sense, having the earth at its fixed and unchanging centre and at a fixed circumference the heavenly arch of fixed stars moving in an eternal round of divine ether, hemming in all things and keeping them forever at one and in order. The earth, though at the centre, is the coarsest, gross est, most material, least significant and good (or per fect) of the parts of this closed world. It is the scene of maximum fluctuation and vicissitude. It is the least rational, and therefore the least notable, or knowable; it offers the least to reward contemplation, provoke

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admiration and govern conduct. Between this grossly material centre and the immaterial, spiritual and eternal heavens lie a definite series of regions of moon, planets, sun, etc., each of which gains in rank, value, rationality and true being as it is farther from earth and nearer the heavens. Each of these regions is composed of its own appropriate stuff of earth, water, air, fire in its own dominant degree, until we reach the heavenly firm ment which transcends all these principles, being con stituted, as was just said, of that immaterial, inalterable energy called ether.

Within this tight and pent in universe, changes take place of course. But they are only of a small number of fixed kinds; and they operate only within fixed limits. Each kind of stuff has its own appropriate motion. It is the nature of earthly things to be heavy, since they are gross, and hence to move downward. Fire and superior things are light and hence move upward to their proper place; air rises only to the plane of the planets, where it then takes its back and forth motion which naturally belongs to it, as is evident in the winds and in respiration. Ether being the highest of all physical things has a purely circular movement. The daily return of the fixed stars is the closest possible approximation to eternity, and to the self-involved revo lution of mind upon its own ideal axis of reason. Upon the earth in virtue of its earthly nature or rather its

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lack of virtue is a scene of mere change. Mere flux, aimless and meaningless, starts at no definite point and arrives at nothing, amounts to nothing. Mere changes of quantity, all purely mechanical changes, are of this kind. They are like the shiftings of the sands by the sea. They may be sensed, but they cannot be "noted" or understood; they lack fixed limits which govern them. They are contemptible. They are casual, the sport of accident.

Only changes which lead to some defined or fixed out come of form are of any account and can have any account any logos or reason made of them. The growth of plants and animals illustrates the highest kind of change which is possible in the sublunary or mundane sphere. They go from one definite fixed form to another. Oaks generate only oaks, oysters only oysters, man only man. The material factor of mechanical production enters in, but enters in as acci dent to prevent the full consummation of the type of the species, and to bring about the meaningless variations which diversify various oaks or oysters from one an other; or in extreme cases to produce freaks, sports, monsters, three-handed or four-toed men. Aside from accidental and undesirable variations, each individual has a fixed career to pursue, a fixed path in which to travel. Terms which sound modern, words like poten tiality and development abound in Aristotelian thought,

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and have misled some into reading into his thought modern meanings. But the significance of these words in classic and medieval thought is rigidly determined by their context. Development holds merely of the course of changes which takes place within a particular mem ber of the species. It is only a name for the prede termined movement from the acorn to the oak tree. It takes place not in things generally but only in some one of the numerically insignificant members of the oak species. Development, evolution, never means, as in modern science, origin of new forms, a mutation from an old species, but only the monotonous traversing of a previously plotted cycle of change. So potentiality never means, as in modern life, the possibility of novelty, of invention, of radical deviation, but only that principle in virtue of which the acorn becomes the oak. Technically,

it is the capacity for movement between opposites. Only the cold can become hot; only the dry can become wet; only the babe can become a man; the seed the full-grown wheat and so on. Potentiality in stead of implying the emergence of anything novel means merely the facility with which a particular thing re peats the recurrent processes of its kind, and thus becomes a specific case of the eternal forms in and through which all things are constituted.

In spite of the almost infinite numerical diversity of individuals, there are only a limited number of species,

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kinds or sorts. And the world is essentially a world which falls into sorts; it is pre-arranged into distinct classes. Moreover, just as we naturally arrange plants and animals into series, ranks and grades, from the lower to the highest, so with all things in the universe. The distinct classes to which things belong by their very nature form a hierarchical order. There are castes in nature. The universe is constituted on an aristocratic, one can truly say a feudal, plan. Species, classes do not mix or overlap except in cases of acci dent, and to the result of chaos. Otherwise, everything belongs in advance to a certain class, and the class has its own fixed place in the hierarchy of Being. The universe is indeed a tidy spot whose purity is interfered with only by those irregular changes in individuals which are due to the presence of an obdurate matter that refuses to yield itself wholly to rule and form. Otherwise it is a universe with a fixed place for every thing and where everything knows its place, its station and class, and keeps it. Hence what are known technically as final and formal causes are supreme, and efficient causes are relegated to an inferior place. The so-called final cause is just a name for the fact that there is some fixed form characteristic of a class or sort of things which governs the changes going on, so that they tend toward it as their end and goal, the fulfilment of their true nature. The supralunar region is the end

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or final cause of the proper movements of air and fire; the earth of the motions of crass, heavy things; the oak of the acorn; the mature form in general of the germi nal.

The "efficient cause," that which produces and in stigates a movement is only some external change as it accidentally gives a kind of push to an immature, imperfect being and starts it moving toward its per fected or fulfilled form. The final cause is the per fected form regarded as the explanation or reason of prior changes. When it is not taken in reference to the changes completed and brought to rest in it, but in itself it is the "formal cause": The inherent nature or character which " makes " or constitutes a thing what it is so far as it truly is, namely, what it is so far as it does not change. Logically and practically all of the traits which have been enumerated cohere. Attack one and you attack all. When any one is undermined, all go. This is the reason why the intellectual modification of the last few centuries may truly be called a revolution. It has

substituted a conception of the world differing at every point. It makes little matter at what point you commence to trace the difference, you find yourself carried into all other points.

Instead of a closed universe, science now presents us with one infinite in space and time, having no limits here or there, at this end, so to speak, or at that, and as

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infinitely complex in internal structure as it is infinite in extent. Hence it is also an open world, an infinitely variegated one, a world which in the old sense can hardly be called a universe at all; so multiplex and far-reaching that it cannot be summed up and grasped in any one formula. And change rather than fixity is now a measure of "reality" or energy of being; change is omnipresent. The laws in which the modern man of science is interested are laws of motion, of generation and consequence. He speaks of law where the ancients spoke of kind and essence, because what he wants is a correlation of changes, an ability to detect one change occurring in correspondence with another. He does not try to define and delimit something remaining constant in change. He tries to describe a constant order of change. And while the word "constant" appears in both statements, the meaning of the word is not the same. In one case, we are dealing with something con stant in existence, physical or metaphysical; in the other case, with something constant in function and operation. One is a form of independent being; the other is a formula of description and calculation of interdependent changes.

In short, classic thought accepted a feudally arranged order of classes or kinds, each " holding " from a superior and in turn giving the rule of conduct and service to an inferior. This trait reflects and

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parallels most closely the social situation we were con sidering at the last hour. We have a fairly definite notion of society as organized upon the feudal basis. The family principle, the principle of kinship is strong, and especially is this true as we ascend in the social scale. At the lower end, individuals may be lost more or less in the mass. Since all are parts of the common herd, there is nothing especial to distinguish their birth. But among the privileged and ruling class the case is quite different. The tie of kinship at once marks a group off externally and gives it distinction, and internally holds all its members together. Kinship, kind, class, genus are synonymous terms, starting from social and concrete facts and going to the technical and abstract. For kinship is a sign of a common nature, of something universal and permanent running through all particular individuals, and giving them a real and objective unity. Because such and such persons are kin they are really, and not merely conventionally, marked off into a class having something unique about it. All contemporary members are bound into an objective unity which in cludes ancestors and descendants and excludes all who belong to another kin or kind. Assuredly this parcel ling out of the world

into separate kinds, each having its qualitatively distinct nature in contrast with other species, binding numerically distinct individuals to gether, and preventing their diversities from exceeding

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fixed bounds, may without exaggeration be called a projection of the family principle into the world at large.

In a feudally organized society, moreover, each kin ship group or species occupies a definite place. It is marked by the possession of a specific rank higher or lower with respect to other grades. This position con fers upon it certain privileges, enabling it to enforce certain claims upon those lower in the scale and en tailing upon it certain services and homage to be ren dered to superiors. The relationship of causation, so to speak, is up and down. Influence, power, proceeds from above to below; the activities of the inferior are performed with respect, quite literally, to what is above. Action and reaction are far from being equal and in opposite directions. All action is of one sort, of the nature of lordship, and proceeds from the higher to the lower. Reaction is of the nature of subjection and deference and proceeds from lower to higher. The classic theory of the constitution of the world corre sponds point by point to this ordering of classes in a scale of dignity and power.

A third trait assigned by historians to feudalism is that the ordering of ranks centres about armed service and the relationship of armed defense and protection. I am afraid that what has already been said about the paral lelism of ancient cosmology with social organization may seem a fanciful analogy; and if a comparison is also

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drawn in this last regard, there will be no doubt in your minds that a metaphor is being forced. Such is truly the case if we take the comparison too literally. But not so, if we confine our attention to the notion of rule and command implied in both. Attention has already been called to the meaning that is now given the term law a constant relationship among changes. Nevertheless, we often hear about laws which "govern" events, and it often seems to be thought that phenomena would be utterly disorderly were there not laws to keep them in order. This way of thinking is a survival of reading social relationships into nature not neces sarily a feudal relationship, but the relation of ruler and ruled, sovereign and subject. Law is assimilated to a command or order. If the factor of personal will is eliminated (as it was in the best Greek thought) still the idea of law or universal is impregnated with the sense of a guiding and ruling influence exerted from above on what is naturally inferior to it. The universal governs as the end and model which the artisan has in mind " governs " his movements. The Middle Ages added to this Greek idea of control the idea of a command proceeding from a superior will; and hence thought of the operations of nature as if they were a fulfilment of a task set by one who had authority to direct action. The traits of the picture of nature drawn by modern

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science fairly spring by contrast into high relief. Modern science took its first step when daring astrono mers abolished the distinction of high, sublime and ideal forces operating in the heavens from lower and material forces actuating terrestrial events. The supposed heterogeneity of substances and forces between heaven and earth was denied. It was asserted that the same laws hold everywhere, that there is homogeneity of material and process everywhere throughout nature. The remote and esthetically sublime is to be scientifically described and explained in terms of homely familiar events and forces. The material of direct handling and observation is that of which we are surest; it is the better known. Until we can convert the grosser and more superficial observations of far-away things in the heavens into elements identical with those of things directly at hand, they remain blind and not understood. Instead of presenting superior worth, they present only problems. They are not means of enlightenment but challenges. The earth is not superior in rank to sun, moon and stars, but it is equal in dignity, and its occur rences give the key to the understanding of celestial existences. Being at hand, they are also capable of being brought under our hand; they can be manipulated, broken up, resolved into elements which can be managed, combined at will in old and new forms. The net result may be termed, I think, without any great

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forcing, the substitution of a democracy of individual facts equal in rank for the feudal system of an ordered gradation of general classes of unequal rank.

One important incident of the new science was the destruction of the idea that the earth is the centre of the universe. When the idea of a fixed centre went, there went with it the idea of a closed universe and a circumscribing heavenly boundary. To the Greek sense, just because its theory of knowing was dominated by esthetic considerations, the finite was the perfect. Literally, the finite was the finished, the ended, the completed, that with no ragged edges and unaccountable operations. The infinite or limitless was lacking in character just because it was in-finite. Being every thing, it was nothing. It was unformed and chaotic, uncontrolled and unruly, the source of incalculable deviations and accidents. Our present feeling that as sociates infinity with boundless power, with capacity for expansion that knows no end, with the delight in a progress that has no external limit, would be incomprehensible were it not that interest has shifted from the esthetic to the practical; from interest in beholding a harmonious and complete scene to interest in trans forming an inharmonious one. One has only to read the authors of the transition period, say Giordano Bruno, to realize what a pent-in, suffocating sensation they associated with a closed, finite world, and what a

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feeling of exhilaration, expansion and boundless pos sibility was aroused in

them by the thought of a world infinite in stretch of space and time, and composed internally of infinitesimal infinitely numerous elements. That which the Greeks withdrew from with repulsion they welcomed with an intoxicated sense of adventure. The infinite meant, it was true, something forever untraversed even by thought, and hence something forever unknown no matter how great attainment in learn ing. But this "forever unknown "instead of being chilling and repelling was now an inspiring challenge to ever-renewed inquiry, and an assurance of inexhaust ible possibilities of progress.

The student of history knows well that the Greeks made great progress in the science of mechanics as well as of geometry. At first sight, it appears strange that with this advance in mechanics so little advance was made in the direction of modern science. The seeming paradox impels us to ask why it was that mechanics remained a separate science, why it was not used in description and explanation of natural phenomena after the manner of Galileo and Newton. The answer is found in the social parallelism already mentioned. Socially speaking, machines, tools, were devices em ployed by artisans. The science of mechanics had to do with the kind of things employed by human mechan ics, and mechanics were base fellows. They were at the

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lower end of the social scale, and how could light on the heavens, the highest, be derived from them? The appli cation of considerations of mechanics to natural phenomena would moreover have implied an interest in the practical control and utilization of phenomena which was totally incompatible with the importance attached to final causes as fixed determiners of nature. All the scientific reformers of the sixteenth and seven teenth centuries strikingly agree in regarding the doc trine of final causes as the cause of the failure of science. Why? Because this doctrine taught that the processes of nature are held in bondage to certain fixed ends which they must tend to realize. Nature was kept in leading strings; it was cramped down to production of a limited number of stereotyped results. Only a com paratively small number of things could be brought into being, and these few must be similar to the ends which similar cycles of change had effected in the past. The scope of inquiry and understanding was limited to the narrow round of processes eventuating in the fixed ends which the observed world offered to view. At best, invention and production of new results by use of machines and tools must be restricted to articles of transient dignity and bodily, not intellectual, use.

When the rigid clamp of fixed ends was taken off from nature, observation and imagination were emanci pated, and experimental control for scientific and prac-

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tical purposes enormously stimulated. Because natural processes were no longer restricted to a fixed number of immovable ends or results, anything might conceiv ably happen. It was only a question of what elements could be brought into juxtaposition so that they would work upon one another* Immediately, mechanics

ceased to be a separate science and became an organ for at tacking nature. The mechanics of the lever, wheel, pul ley and inclined plane told accurately what happens when things in space are used to move one another during definite periods of time. The whole of nature became a scene of pushes and pulls, of cogs and levers, of motions of parts or elements to which the formulae of movements produced by well-known machines were directly applicable.

The banishing of ends and forms from the universe has seemed to many an ideal and spiritual impoverish ment. When nature was regarded as a set of mechanical interactions, it apparently lost all meaning and pur pose. Its glory departed. Elimination of differences of quality deprived it of beauty. Denial to nature of all inherent longings and aspiring tendencies toward ideal ends removed nature and natural science from contact with poetry, religion and divine things. There seemed to be left only a harsh, brutal despiritualized exhibition of mechanical forces. As a consequence, it has seemed to many philosophers that one of their

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chief problems was to reconcile the existence of this purely mechanical world with belief in objective ration ality and purpose to save life from a degrading ma terialism. Hence many sought to re-attain by way of an analysis of the process of knowing, or epistemology, that belief in the superiority of Ideal Being which had anciently been maintained on the basis of cosmology. But when it is recognized that the mechanical view is determined by the requirements of an experimental con trol of natural energies, this problem of reconciliation no longer vexes us. Fixed forms and ends, let us recall, mark fixed limits to change. Hence they make futile all human efforts to produce and regulate change except within narrow and unimportant limits. They paralyze constructive human inventions by a theory which con demns them in advance to failure. Human activity can conform only to ends already set by nature. It was not till ends were banished from nature that pur poses became important as factors in human minds capable of reshaping existence. A natural world that does not subsist for the sake of realizing a fixed set of ends is relatively malleable and plastic; it may be used for this end or that. That nature can be known through the application of mechanical formulae is the prime condition of turning it to human account. Tools, machines are means to be utilized. Only when nature is regarded as mechanical, is systematic invention

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construction of machines relevant to nature s activities. Nature is subdued to human purpose because it is no longer the slave of metaphysical and theological pur pose.

Bergson has pointed out that man might well be called Homˆ Faber. He is distinguished as the tool-making animal. This has held good since man was man; but till nature was construed in mechanical terms, the making of tools with which to attack and transform nature was sporadic and accidental. Under such circum stances it would not have occurred even to a Bergson that man s tool-making

capacity was so important and fundamental that it could be used to define him. The very things that make the nature of the mechanical- physical scientist esthetically blank and dull are the things which render nature amenable to human control. When qualities were subordinated to quantitative and mathematical relationships, color, music and form dis appeared from the object of the scientist s inquiry as such. But the remaining properties of weight, exten sion, numerable velocity of movement and so on were just the qualities which lent themselves to the substitution of one thing for another, to the conversion of one form of energy into another; to the effecting of trans formations. When chemical fertilizers can be used in place of animal manures, when improved grain and cattle can be purposefuUy bred from inferior animals

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and grasses, when mechanical energy can be converted into heat and electricity into mechanical energy, man gains power to manipulate nature. Most of all he gains power to frame new ends and aims and to proceed in regular system to their actualization. Only indefinite substitution and convertibility regardless of quality render nature manageable. The mechanization of nature is the condition of a practical and progressive idealism in action.

It thus turns out that the old, old dread and dislike of matter as something opposed to mind and threaten ing it, to be kept within the narrowest bounds of recognition; something to be denied so far as possible lest it encroach upon ideal purposes and finally exclude them from the real world, is as absurd practically as it was impotent intellectually. Judged from the only scientific standpoint, what it does and how it functions, matter means conditions. To respect matter means to respect the conditions of achievement; conditions which hinder and obstruct and which have to be changed, conditions which help and further and which can be used to modify obstructions and attain ends. Only as men have learned to pay sincere and persistent regard to matter, to the conditions upon which depends nega tively and positively the success of all endeavor, have they shown sincere and fruitful respect for ends and purposes. To profess to have an aim and then neglect

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the means of its execution is self-delusion of the most dangerous sort. Education and morals will begin to find themselves on the same road of advance that say chemical industry and medicine have found for them selves when they too learn fully the lesson of whole hearted and unremitting attention to means and conditions that is, to what mankind so long despised as material and mechanical. When we take means for ends we indeed fall into moral materialism. But when we take ends without regard to means we degenerate into sentimentalism. In the name of the ideal we fall back upon mere luck and chance and magic or exhortation and preaching; or else upon a fanaticism that will force the realization of preconceived ends at any cost.

I have touched in this lecture upon many things in a cursory way. Yet there has

been but one point in mind. The revolution in our conceptions of nature and in our methods of knowing it has bred a new temper of imagination and aspiration. It has confirmed the new attitude generated by economic and political changes. It has supplied this attitude with definite intellectual material with which to formulate and justify itself.

In the first lecture it was noted that in Greek life prosaic matter of fact or empirical knowledge was at a great disadvantage as compared with the imaginative beliefs that were bound up with special institutions

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and moral habitudes. Now this empirical knowledge has grown till it has broken its low and limited sphere of application and esteem. It has itself become an organ of inspiring imagination through introducing ideas of boundless possibility, indefinite progress, free movement, equal opportunity irrespective of fixed limits. It has reshaped social institutions, and in so far de veloped a new morale. It has achieved ideal values. It is convertible into creative and constructive philoso phy-

Convertible, however, rather than already converted. When we consider how deeply embedded in customs of thought and action the classic philosophy came to be and how congenial it is to man's more spontaneous be liefs, the throes that attended its birth are not to be wondered at. We should rather wonder that a view so upsetting, so undermining, made its way without more persecutions, martyrdoms and disturbances. It cer tainly is not surprising that its complete and consistent formulation in philosophy has been long delayed. The main efforts of thinkers were inevitably directed to minimizing the shock of change, easing the strains of transition, mediating and reconciling. When we look back upon almost all of the thinkers of the seventeenth and eighteenth centuries, upon all excepting those who were avowedly sceptical and revolutionary, what strikes us is the amount of traditional subject-matter and

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method that is to be found even among those who were regarded as most advanced. Men cannot easily throw off their old habits of thinking, and never can throw off all of them at once. In developing, teaching and re ceiving new ideas we are compelled to use some of the old ones as tools of understanding and communication. Only piecemeal, step-by-step, could the full import of the new science be grasped. Roughly speaking, the seventeenth century witnessed its application in astronomy and general cosmology; the eighteenth cen tury in physics and chemistry; the nineteenth century undertook an application in geology and the biological sciences.

It was said that it has now become extremely difficult to recover the view of the world which univer sally obtained in Europe till the seventeenth century. Yet after all we need only recur to the science of plants and animals as it was before Darwin and to the ideas which even now are dominant in moral and political

matters to find the older order of conceptions in full possession of the popular mind. Until the dogma of fixed unchangeable types and species, of arrangement in classes of higher and lower, of subordination of the transitory individual to the universal or kind had been shaken in its hold upon the science of life, it was im possible that the new ideas and method should be made at home in social and moral life. Does it not seem to be

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the intellectual task of the twentieth century to take this last step? When this step is taken the circle of scientific development will be rounded out and the re construction of philosophy be made an accomplished fact.

CHAPTER IV

CHANGED CONCEPTIONS OF EXPERIENCE AND REASON

WHAT is experience and what is Reason, Mind? What is the scope of experience and what are its limits? How far is it a sure ground of belief and a safe guide of conduct? Can we trust it in science and in be havior? Or is it a quagmire as soon as we pass beyond a few low material interests? Is it so shaky, shifting, and shallow that instead of affording sure footing, safe paths to fertile fields, it misleads, betrays, and engulfs? Is a Reason outside experience and above it needed to supply assured principles to science and conduct? In one sense, these questions suggest tech nical problems of abstruse philosophy; in another sense, they contain the deepest possible questionings regard ing the career of man. They concern the criteria he is to employ in forming his beliefs; the principles by which he is to direct his life and the ends to which he is to direct it. Must man transcend experience by some organ of unique character that carries him into the super-empirical? Failing this, must he wander sceptical and disillusioned? Or is human experience itself worth

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while in its purposes and its methods of guidance? Can it organize itself into stable courses or must it be sus tained from without?

We know the answers of traditional philosophy. They do not thoroughly agree among themselves, but they agree that experience never rises above the level of the particular, the contingent, and the probable. Only a power transcending in origin and content any and all conceivable experience can attain to universal, neces sary and certain authority and direction. The em piricists themselves admitted the correctness of these assertions. They only said that since there is no faculty of Pure Reason in the possession of mankind, we must put up with what we have, experience, and make the most possible out of it. They contented themselves with sceptical attacks upon the transcendentalist, with indi cations of the ways in which we might best seize the meaning and good of the passing moment; or like Locke, asserted that in spite of the limitation

of experience, it affords the light needed to guide men s footsteps modestly in conduct. They affirmed that the alleged au thoritative guidance by a higher faculty had practically hampered men.

It is the function of this lecture to show how and why it is now possible to make claims for experience as a guide in science and moral life which the older empiricists did not and could not make for it.

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Curiously enough, the key to the matter may be found in the fact that the old notion of experience was itself a product of experience the only kind of experience which was then open to men. If another conception of experience is now possible, it is precisely because the quality of experience as it may now be lived has under gone a profound social and intellectual change from that of earlier times. The account of experience which we find in Plato and Aristotle is an account of what Greek experience actually was. It agrees very closely with what the modern psychologist knows as the method of learning by trial and error as distinct from the method of learning by ideas. Men tried certain acts, they underwent certain sufferings and affections. Each of these in the time of its occurrence is isolated, particular its counterpart is transient appetite and transient sensation. But memory preserves and accumulates these separate incidents. As they pile up, irregular variations get cancelled, common features are selected, reinforced and combined. Gradually a habit of action is built up, and corresponding to this habit there forms a certain generalized picture of an object or situation. We come to know or note not merely this particular which as a particular cannot strictly be known at all (for not being classed it cannot be characterized and identified) but to recognize it as man, tree, stone, leather an individual of a certain kind, marked by a certain

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universal form characteristic of a whole species of thing. Along with the development of this common-sense knowledge, there grows up a certain regularity of con duct. The particular incidents fuse, and a way of act ing which is general, as far as it goes, builds up. The skill develops which is shown by the artisan, the shoe maker, the carpenter, the gymnast, the physician, who have regular ways of handling cases. This regularity signifies, of course, that the particular case is not treated as an isolated particular, but as one of a kind, which therefore demands a kind of action. From the multitude of particular illnesses encountered, the physician in learning to class some of them as indigestion learns also to treat the cases of the class in a common or general way. He forms the rule of recommending a certain diet, and prescribing a certain remedy. All this forms what we call experience. It results, as the illus tration shows, in a certain general insight and a certain organized ability in action.

But needless to insist, the generality and the organi zation are restricted and fallible. They hold, as Aris totle was fond of pointing out, usually, in most cases, as a rule, but not universally, of necessity, or as a principle. The physician is

bound to make mistakes, because individual cases are bound to vary unaccount ably: such is their very nature. The difficulty does not arise in a defective experience which is capable of

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remedy in some better experience. Experience itself, as such, is defective, and hence default is inevitable and irremediable. The only universality and certainty is in a region above experience, that of the rational and con ceptual. As the particular was a stepping-stone to image and habit, so the latter may become a stepping- stone to conceptions and principles. But the latter leave experience behind, untouched; they do not react to rectify it. Such is the notion which still lingers in the contrast of " empirical " and " rational " as when we say that a certain architect or physician is empirical, not scientific in his procedures. But the difference be tween the classic and the modern notion of experience is revealed in the fact that such a statement is now a charge, a disparaging accusation, brought against a particular architect or physician. With Plato, Aris totle and the Scholastic, it was a charge against the callings, since they were modes of experience. It was an indictment of all practical action in contrast with conceptual contemplation.

The modern philosopher who has professed himself an empiricist has usually had a critical purpose in mind. Like Bacon, Locke, Condillac and Helvetius, he stood face to face with a body of beliefs and a set of institutions in which he profoundly disbelieved. His problem was the problem of attack upon so much dead weight carried uselessly by humanity, crushing and distorting

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it. His readiest way of undermining and disintegrating was by appealing to experience as a final test and cri terion. In every case, active reformers were "empiri cists" in the philosophical sense. They made it their business to show that some current belief or institution that claimed the sanction of innate ideas or necessary conceptions, or an origin in an authoritative revela tion of reason, had in fact proceeded from a lowly origin in experience, and had been confirmed by accident, by class interest or by biased authority.

The philosophic empiricism initiated by Locke was thus disintegrate in intent. It optimistically took it for granted that when the burden of blind custom, im posed authority, and accidental associations was re moved, progress in science and social organization would spontaneously take place. Its part was to help in re moving the burden. The best way to liberate men from the burden was through a natural history of the origin and growth in the mind of the ideas connected with objectionable beliefs and customs. Santayana justly calls the psychology of this school a malicious psychology. It tended to identify the history of the formation of certain ideas with an account of the things to which the ideas refer an identification which natu rally had an unfavorable effect on the things. But Mr. Santayana neglects to notice the social zeal and aim latent in the malice. He fails to point out that this

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" malice " was aimed at institutions and traditions which had lost their usefulness; he fails to point out that to a large extent it was true of them that an account of their psychological origin was equivalent to a destructive account of the things themselves. But after Hume with debonair clarity pointed out that the analysis of beliefs into sensations and associations left " natural " ideas and institutions in the same posi tion in which the reformers had placed " artificial " ones, the situation changed. The rationalists employed the logic of sensationalistic-empiricism to show that ex perience, giving only a heap of chaotic and isolated par ticulars, is as fatal to science and to moral laws and obligations as to obnoxious institutions; and concluded that " Reason " must be resorted to if experience was to be furnished with any binding and connecting princi ples. The new rationalistic idealism of Kant and his successors seemed to be necessitated by the totally destructive results of the new empirical philosophy.

Two things have rendered possible a new conception of experience and a new conception of the relation of reason to experience, or, more accurately, of the place of reason in experience. The primary factor is the change that has taken place in the actual nature of experience, its contents and methods, as it is actually lived. The other is the development of a psychology

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based upon biology which makes possible a new scien tific formulation of the nature of experience.

Let us begin with the technical side the change in psychology. We are only just now commencing to ap preciate how completely exploded is the psychology that dominated philosophy throughout the eighteenth and nineteenth centuries. According to this theory, mental life originated in sensations which are separately and passively received, and which are formed, through laws of retention and association, into a mosaic of images, perceptions, and conceptions. The senses were regarded as gateways or avenues of knowledge. Except in com bining atomic sensations, the mind was wholly passive and acquiescent in knowing. Volition, action, emotion, and desire follow in the wake of sensations and images. The intellectual or cognitive factor comes first and emotional and volitional life is only a consequent conjunction of ideas with sensations of pleasure and pain.

The effect of the development of biology has been to reverse the picture. Wherever there is life, there is be havior, activity. In order that life may persist, this, activity has to be both continuous and adapted to the environment. This adaptive adjustment, moreover, is not wholly passive; is not a mere matter of the mould ing of the organism by the environment. Even a clam acts upon the environment and modifies it to some ex tent. It selects materials for food and for the shell that

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protects it. It does something to the environment as well as has something*

done to itself. There is no such thing in a living creature as mere conformity to con ditions, though parasitic forms may approach this limit. In the interests of the maintenance of life there is trans formation of some elements in the surrounding medium. The higher the form of life, the more important is the active reconstruction of the medium. This increased control may be illustrated by the contrast of savage with civilized man. Suppose the two are living in a wilderness. With the savage there is the maximum of accommodation to given conditions; the minimum of what we may call hitting back. The savage takes things " as they are," and by using caves and roots and oc casional pools leads a meagre and precarious existence. The civilized man goes to distant mountains and dams streams. He builds reservoirs, digs channels, and con ducts the waters to what had been a desert. He searches the world to find plants and animals that will thrive. He takes native plants and by selection and cross-fertilization improves them. He introduces ma chinery to till the soil and care for the harvest. By such means he may succeed in making the wilderness blossom like the rose.

Such transformation scenes are so familiar that we overlook their meaning. We forget that the inherent power of life is illustrated in them. Note what a change

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this point of view entails in the traditional notions of experience. Experience becomes an affair primarily of doing. The organism does not stand about, Micawber- like, waiting for something to turn up. It does not wait passive and inert for something to impress itself upon it from without. The organism acts in accordance with its own structure, simple or complex, upon its surround ings. As a consequence the changes produced in the environment react upon the organism and its activities. The living creature undergoes, suffers, the consequences of its own behavior. This close connection between doing and suffering or undergoing forms what we call experience. Disconnected doing and disconnected suffering are neither of them experiences. Suppose fire encroaches upon a man when he is asleep. Part of his body is burned away. The burn does not perceptibly result from what he has done. There is nothing which in any instructive way can be named experience. Or again there is a series of mere activities, like twitchings of muscles in a spasm. The movements amount to noth ing; they have no consequences for life. Or, if they have, these consequences are not connected with prior doing. There is no experience, no learning, no cumu lative process. But suppose a busy infant puts his finger in the fire; the doing is random, aimless, without intention or reflection. But something happens in con sequence. The child undergoes heat, he suffers pain.

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The doing and undergoing, the reaching and the burn, are connected. One comes to suggest and mean the other. Then there is experience in a vital and significant sense.

Certain important implications for philosophy follow. In the first place, the interaction of organism and en vironment, resulting in some adaptation which

secures utilization of the latter, is the primary fact, the basic category. Knowledge is relegated to a derived posi tion, secondary in origin, even if its importance, when once it is established, is overshadowing. Knowledge is not something separate and self-sufficing, but is in volved in the process by which life is sustained and evolved. The senses lose their place as gateways of knowing to take their rightful place as stimuli to action. To an animal an affection of the eye or ear is not an idle piece of information about something indifferently going on in the world. It is an invitation and induce ment to act in a needed way. It is a clue in behavior, a directive factor in adaptation of life in its surround ings. It is urgent not cognitive in quality. The whole controversy between empiricism and rationalism as to the intellectual worth of sensations is rendered strangely obsolete. The discussion of sensations belongs under the head of immediate stimulus and response, not under the head of knowledge.

As a conscious element, a sensation marks an inter-

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ruption in a course of action previously entered upon. Many psychologists since the time of Hobbes have dwelt upon what they call the relativity of sensations. We feel or sense cold in transition from warmth rather than absolutely; hardness is sensed upon a background of less resistance; a color in contrast with pure light or pure dark or in contrast with some other hue. A continuously unchanged tone or color cannot be at tended to or sensed. What we take to be such monoto nously prolonged sensations are in truth constantly in terrupted by incursions of other elements, and represent a series of excursions back and forth. This fact was, however, misconstrued into a doctrine about the nature of knowledge. Rationalists used it to discredit sense as a valid or high mode of knowing things, since according to it we never get hold of anything in itself or intrinsically. Sensationalists used it to disparage all pretence at absolute knowledge.

Properly speaking, however, this fact of the relativity of sensation does not in the least belong in the sphere of knowing. Sensations of this sort are emotional and practical rather than cognitive and intel lectual. They are shocks of change, due to interruption of a prior adjustment. They are signals to redirections of action. Let me take a trivial illustration. The person who is taking notes has no sensation of the pres sure of his pencil on the paper or on his hand as long

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as it functions properly. It operates merely as stimulus to ready and effective adjustment. The sensory activity incites automatically and unconsciously its proper motor response. There is a preformed physiological connection, acquired from habit but ultimately going back to an original connection in the nervous system. If the pencil-point gets broken or too blunt and the habit of writing does not operate smoothly, there is a conscious shock: the feeling of something the matter, something gone wrong. This emotional change operates as a stimulus to a needed change in operation. One looks at his pencil, sharpens it or takes another pencil from one s pocket. The sensation operates as a pivot of readjusting

behavior. It marks a break in the prior routine of writing and the beginning of some other mode of action. Sensations are "relative" in the sense of marking transitions in habits of behavior from one course to another way of behaving.

The rationalist was thus right in denying that sensa tions as such are true elements of knowledge. But the reasons he gave for this conclusion and the consequences he drew from it were all wrong. Sensations are not parts of any knowledge, good or bad, superior or in ferior, imperfect or complete. They are rather provo cations, incitements, challenges to an act of inquiry which is to terminate in knowledge. They are not ways of knowing things inferior in value to reflective ways, to

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the ways that require thought and inference, because they are not ways of knowing at all. They are stimuli to reflection and inference. As interruptions, they raise the questions: What does this shock mean? What is happening? What is the matter? How is my relation to the environment disturbed? What should be done about it? How shall I alter my course of action to meet the change that has taken place in the surround ings? How shall I readjust my behavior in response? Sensation is thus, as the sensationalist claimed, the be ginning of knowledge, but only in the sense that the experienced shock of change is the necessary stimulus to the investigating and comparing which eventually produce knowledge.

When experience is aligned with the life-process and sensations are seen to be points of readjustment, the alleged atomism of sensations totally disappears. With this disappearance is abolished the need for a synthetic faculty of superempirical reason to connect them. Philosophy is not any longer confronted with the hope less problem of finding a way in which separate grains of sand may be woven into a strong and coherent rope or into the illusion and pretence of one. When the isolated and simple existences of Locke and Hume are seen not to be truly empirical at all but to answer to certain demands of their theory of mind, the necessity ceases for the elaborate Kantian and Post-Kantian ma-

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chinery of a priori concepts and categories to synthe size the alleged stuff of experience. The true "stuff" of experience is recognized to be adaptive courses of action, habits, active functions, connections of doing and undergoing; sensori-motor co-ordinations. Experi ence carries principles of connection and organization within itself. These principles are none the worse be cause they are vital and practical rather than epistemo- logical. Some degree of organization is indispensable to even the lowest grade of life. Even an amoeba must have some continuity in time in its activity and some adaptation to its environment in space. Its life and experience cannot possibly consist in momentary, atomic, and self-enclosed sensations. Its activity has reference to its surroundings and to what goes before and what comes after. This organization intrinsic to life renders unnecessary a super-natural and super-em pirical synthesis. It affords

the basis and material for a positive evolution of intelligence as an organizing factor within experience.

Nor is it entirely aside from the subject to point out the extent in which social as well as biological organization enters into the formation of human ex perience. Probably one thing that strengthened the idea that the mind is passive and receptive in knowing was the observation of the helplessness of the human infant. But the observation points in quite another direction.

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Because of his physical dependence and impotency, the contacts of the little child with nature are mediated by other persons. Mother and nurse, father and older children, determine what experiences the child shall have; they constantly instruct him as to the meaning of what he does and undergoes. The conceptions that are socially current and important become the child s prin ciples of interpretation and estimation long before he attains to personal and deliberate control of conduct. Things come to him clothed in language, not in physical nakedness, and this garb of communication makes him a sharer in the beliefs of those about him. These be liefs coming to him as so many facts form his mind; they furnish the centres about which his own personal expe ditions and perceptions are ordered. Here we have "categories" of connection and unification as important as those of Kant, but empirical not mythological. From these elementary, if somewhat technical con siderations, we turn to the change which experience it self has undergone in the passage from ancient and medieval to modern life. To Plato, experience meant enslavement to the past, to custom. Experience was almost equivalent to established customs formed not by reason or under intelligent control but by repetition and blind rule of thumb. Only reason can lift us above subjection to the accidents of the past. When we come to Bacon and his successors, we discover a curious re-

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versal. Reason and its bodyguard of general notions is now the conservative, mind-enslaving factor. Ex perience is the liberating power. Experience means the new, that which calls us away from adherence to the past, that which reveals novel facts and truths. Faith in experience produces not devotion to custom but en deavor for progress. This difference in temper is the more significant because it was so unconsciously taken for granted. Some concrete and vital change must have occurred in actual experience as that is lived. For, after all, the thought of experience follows after and is modelled upon the experience actually undergone. When mathematics and other rational sciences de veloped among the Greeks, scientific truths did not react back into daily experience. They remained isolated, apart and super-imposed. Medicine was the art in which perhaps the greatest amount of posi tive knowledge was obtained, but it did not reach the dignity of science. It remained an art. In practical arts, moreover, there was no conscious in vention or purposeful improvement. Workers fol lowed patterns that were handed down to them, while departure from established standards and models

usually resulted in degenerate productions. Im provements came either from a slow, gradual, and un acknowledged accumulation of changes or else from some sudden inspiration, which at once set a new stand-

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ard. Being the result of no conscious method, it was fittingly attributed to the gods. In the social arts, such a radical reformer as Plato felt that existing evils were due to the absence of such fixed patterns as con trolled the productions of artisans. The ethical pur port of philosophy was to furnish them, and when once they were instituted, they were to be consecrated by religion, adorned by art, inculcated by education and enforced by magistrates so that alteration of them would be impossible.

It is unnecessary to repeat what has been so often dwelt upon as to the effect of experimental science in enabling man to effect a deliberate control of his en vironment. But since the impact of this control upon the traditional notion of experience is often overlooked, we must point out that when experience ceased to be empirical and became experimental, something of radi cal importance occurred. Aforetime man employed the results of his prior experience only to form customs that henceforth had to be blindly followed or blindly broken. Now, old experience is used to suggest aims and methods for developing a new and improved ex perience. Consequently experience becomes in so far constructively self-regulative. What Shakespeare so pregnantly said of nature, it is " made better by no mean, but nature makes that mean," becomes true of experience. We do not merely have to repeat the past,

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or wait for accidents to force change upon us. We use our past experiences to construct new and better ones in the future. The very fact of experience thus includes the process by which it directs itself in its own better ment.

Science, "reason" is not therefore something 1 laid from above upon experience. Suggested and tested in experience, it is also employed through inventions in a thousand ways to expand and enrich experience. All though, as has been so often repeated, this self-creation and self-regulation of experience is still largely techno logical rather than truly artistic or human, yet what has been achieved contains the guaranty of the possi bility of an intelligent administering of experience. The limits are moral and intellectual, due to defects in our good will and knowledge. They are not inherent meta physically in the very nature of experience. Reason " as a faculty separate from experience, introducing us to a superior region of universal truths begins now to strike us as remote, uninteresting and unimportant. Reason, as a Kantian faculty that introduces generality and regularity into experience, strikes us more and more as superfluous the unnecessary creation of men addicted to traditional formalism and to elaborate terminology. Concrete suggestions arising from past experiences, developed and matured in the light of the needs and deficiencies of the present, employed as aims

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and methods of specific reconstruction, and tested by success or failure in accomplishing this task of re adjustment, suffice. To such empirical suggestions used in constructive fashion for new ends the name intelligence is given.

This recognition of the place of active and planning thought within the very processes of experience radi cally alters the traditional status of the technical prob lems of particular and universal, sense and reason, per ceptual and conceptual. But the alteration is of much more than technical significance. For reason is experi mental intelligence, conceived after the pattern of science, and used in the creation of social arts; it has something to do. It liberates man from the bondage of the past, due to ignorance and accident hardened into custom. It projects a better future and assists man in its realization. And its operation is always subject to test in experience. The plans which are formed, the principles which man projects as guides of reconstructive action, are not dogmas. They are hypotheses to be worked out in practice, and to be rejected, corrected and expanded as they fail or succeed in giving our present experience the guidance it requires. We may call them programmes of action, but since they are to be used in making our future acts less blind, more directed, they are flexible. Intelligence is not something pos sessed once for all. It is in constant process of form-

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ing, and its retention requires constant alertness in observing consequences, an open-minded will to learn and courage in re-adjustment.

In contrast with this experimental and re-adjusting intelligence, it must be said that Reason as employed by historic rationalism has tended to carelessness, conceit, irresponsibility, and rigidity in short absolutism. A certain school of contemporary psychology uses the term " rationalization " to denote those mental mechan isms by which we unconsciously put a better face on our conduct or experience than facts justify. We excuse ourselves to ourselves by introducing a purpose and order into that of which we are secretly ashamed. In like fashion, historic rationalism has often tended to use Reason as an agency of justification and apologet ics. It has taught that the defects and evils of actual experience disappear in the "rational whole" of things; that things appear evil merely because of the partial, incomplete nature of experience. Or, as was noted by Bacon, " reason " assumes a false simplicity, uniform ity and universality, and opens for science a path of fictitious ease. This course results in intellectual irre sponsibility and neglect: irresponsibility because ra tionalism assumes that the concepts of reason are so self-sufficient and so far above experience that they need and can secure no confirmation in experience. Neg lect, because this same assumption makes men care-

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less about concrete observations and experiments. Con tempt for experience has had a tragic revenge in ex perience; it has cultivated disregard for fact and this

disregard has been paid for in failure, sorrow and war.

The dogmatic rigidity of Rationalism is best seen in the consequences of Kant s attempt to buttress an other wise chaotic experience with pure concepts. He set out with a laudable attempt at restricting the extrava gant pretensions of Reason apart from experience. He called his philosophy critical. But because he taught that the understanding employs fixed, a priori, concepts, in order to introduce connection into experience and thereby make known objects possible (stable, regular relationships of qualities), he developed in German thought a curious contempt for the living variety of experience and a curious overestimate of the value of system, order, regularity for their own sakes. More practical causes were at work in producing the peculiarly German regard for drill, discipline, " order " and docility.

But Kant s philosophy served to provide an intel lectual justification or " rationalization " of subordi nation of individuals to fixed and ready-made uni- versals, " principles," laws. Reason and law were held to be synonyms. And as reason came into experi ence from without and above, so law had to come into life from some external and superior authority. The

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practical correlate to absolutism is rigidity, stiffness, inflexibility of disposition. When Kant taught that some conceptions, and these the important ones, are a priori, that they do not arise in experience and cannot be verified or tested in experience, that without such ready-made injections into experience the latter is anarchic and chaotic, he fostered the spirit of absolutism, even though technically he denied the possi bility of absolutes. His successors were true to his spirit rather than his letter, and so they taught absolutism systematically. That the Germans with all their scien tific competency and technological proficiency should have fallen into their tragically rigid and " superior " style of thought and action (tragic because involving them in inability to understand the world in which they lived) is a sufficient lesson of what may be involved in a systematical denial of the experimental character of intelligence and its conceptions.

By common consent, the effect of English empiricism was sceptical where that of German rationalism was apologetic; it undermined where the latter justified. It detected accidental associations formed into customs under the influence of self-or class-interest where German rational-idealism discovered profound meanings due to the necessary evolution of absolute reason. The modern world has suffered because in so many matters philosophy has offered it only an arbitrary choice be-

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tween hard and fast opposities: Disintegrating analysis or rigid synthesis; complete radicalism neglecting and attacking the historic past as trivial and harmful, or complete conservatism idealizing institutions as embodi ments of eternal reason; a resolution of experience into atomic elements that afford no

support to stable or ganization or a clamping down of all experience by fixed categories and necessary concepts these are the alternatives that conflicting schools have pre-sented.

They are the logical consequences of the traditional opposition of Sense and Thought, Experience and Reason. Common sense has refused to follow both theories to their ultimate logic, and has fallen back on faith, intuition or the exigencies of practical com promise. But common sense too often has been con fused and hampered instead of enlightened and directed by the philosophies proffered it by professional in tellectuals. Men who are thrown back upon "common sense" when they appeal to philosophy for some general guidance are likely to fall back on routine, the force of some personality, strong leadership or on the pressure of momentary circumstances. It would be difficult to estimate the harm that has resulted because the liberal and progressive movement of the eighteenth and earlier nineteenth centuries had no method of intellectual articulation commensurate with its practical aspirations. Its

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heart was in the right place. It was humane and social in intention. But it had no theoretical instrumentali ties of constructive power. Its head was sadly deficient. Too often the logical import of its professed doctrines was almost anti-social in their atomistic individualism, anti-human in devotion to brute sensation. This de ficiency played into the hands of the reactionary and obscurantist. The strong point of the appeal to fixed principles transcending experience, to dogmas incapable of experimental verification, the strong point of reliance upon a priori canons of truth and standards of morals in opposition to dependence upon fruits and conse quences in experience, has been the unimaginative con ception of experience which professed philosophic empiricists have entertained and taught.

A philosophic reconstruction which should relieve men of having to choose between an impoverished and trun cated experience on one hand and an artificial and im potent reason on the other would relieve human effort from the heaviest intellectual burden it has to carry. It would destroy the division of men of good will into two hostile camps. It would permit the co-operation of those who respect the past and the institutionally established with those who are interested in establishing a freer and happier future. For it would determine the conditions under which the funded experience of the past and the contriving intelligence which looks to the

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future can effectually interact with each other. It would enable men to glorify the claims of reason without at the same time falling into a paralyzing worship of super-empirical authority or into an offensive " ration alization " of things as they are.

CHAPTER V

CHANGED CONCEPTIONS OF THE IDEAL AND THE REAL

IT has been noted that human experience is made human through the existence of associations and recol lections, which are strained through the mesh of imagi nation so as to suit the demands of the emotions. A life that is humanly interesting is, short of the results of discipline, a life in which the tedium of vacant leisure is filled with images that excite and satisfy. It is in this sense that poetry preceded prose in human experi ence, religion antedated science, and ornamental and decorative art while it could not take the place of utility early reached a development out of proportion to the practical arts. In order to give contentment and de light, in order to feed present emotion and give the stream of conscious life intensity and color, the sug gestions which spring from past experiences are worked over so as to smooth out their unpleasantnesses and en hance their enjoyableness. Some psychologists claim that there is what they call a natural tendency to obliviscence of the disagreeable that men turn from the unpleasant in thought and recollection as they do

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from the obnoxious in action. Every serious-minded person knows that a large part of the effort required in moral discipline consists in the courage needed to acknowledge the unpleasant consequences of one s past and present acts. We squirm, dodge, evade, disguise, cover up, find excuses and palliations anything to render the mental scene less uncongenial. In short, the tendency of spontaneous suggestion is to idealize ex perience, to give it in consciousness qualities which it does not have in actuality. Time and memory are true artists; they remould reality nearer to the heart s desire.

As imagination becomes freer and less controlled by concrete actualities, the idealizing tendency takes fur ther flights unrestrained by the rein of the prosaic world. The things most emphasized in imagination as it reshapes experience are things which are absent in reality. In the degree in which life is placid and easy, imagination is sluggish and bovine. In the degree in which life is uneasy and troubled, fancy is stirred to frame pictures of a contrary state of things. By reading the characteristic features of any man's castles in the air you can make a shrewd guess as to his under lying desires which are frustrated. What is difficulty and disappointment in real life becomes conspicuous achievement and triumph in revery; what is negative in fact will be positive in the image drawn by fancy; what

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is vexation in conduct will be compensated for in high relief in idealizing imagination.

These considerations apply beyond mere personal psychology. They are decisive for one of the most marked traits of classic philosophy: its conception of an ultimate supreme Reality which is essentially ideal in nature. Historians have more than once drawn an instructive parallel between the developed Olympian

Pantheon of Greek religion and the Ideal Realm of Platonic philosophy. The gods, whatever their origin and original traits, became idealized projections of the selected and matured achievements which the Greeks admired among their mortal selves. The gods were like mortals, but mortals living only the lives which men would wish to live, with power intensified, beauty perfected, and wisdom ripened. When Aristotle criti cized the theory of Ideas of his master, Plato, by saying that the Ideas were after all only things of sense eternal ized, he pointed out in effect the parallelism of philoso phy with religion and art to which allusion has just been made. And save for matters of merely technical import, is it not possible to say of Aristotle's Forms just what he said of Plato's Ideas? What are they, these Forms and Essences which so profoundly influenced for centuries the course of science and theology, save the objects of ordinary experience with their blem ishes removed, their imperfections eliminated, their lacks

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rounded out, their suggestions and hints fulfilled? What are they in short but the objects of familiar life divinized because reshaped by the idealizing imagina tion to meet the demands of desire in just those respects in which actual experience is disappointing?

That Plato, and Aristotle in somewhat different fashion, and Plotinus and Marcus Aurelius and Saint Thomas Aquinas, and Spinoza and Hegel all taught that Ultimate Reality is either perfectly Ideal and Rational in nature, or else has absolute ideality and rationality as its necessary attribute, are facts well known to the student of philosophy. They need no ex position here. But it is worth pointing out that these great systematic philosophies defined perfect Ideality in conceptions that express the opposite of those things which make life unsatisfactory and troublesome. What is the chief source of the complaint of poet and moralist with the goods, the values and satisfactions of experi ence? Rarely is the complaint that such things do not exist; it is that although existing they are momentary, transient, fleeting. They do not stay; at worst they come only to annoy and tease with their hurried and dis appearing taste of what might be; at best they come only to inspire and instruct with a passing hint of truer reality. This commonplace of the poet and moralist as to the impermanence not only of sensuous enjoy ment, but of fame and civic achievements was profoundly

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reflected upon by philosophers, especially by Plato and Aristotle. The results of their thinking have been wrought into the very fabric of western ideas. Time, change, movement are signs that what the Greeks called Non-Being somehow infect true Being. The phrase ology is now strange, but many a modern who ridicules the conception of Non-Being repeats the same thought under the name of the Finite or Imperfect.

Wherever there is change, there is instability, and in stability is proof of something the matter, of absence, deficiency, incompleteness. These are the ideas com mon to the connection between change, becoming and perishing, and Non-Being, finitude and imperfection. Hence complete and true Reality must be changeless, unalterable, so full of Being that it always and for ever maintains itself in fixed rest and repose. As Bradley, the most dialectially ingenious Absolutist of our own day, expresses the doctrine "Nothing that is perfectly real moves." And while Plato took, compara tively speaking, a pessimistic view of change as mere lapse and Aristotle a complacent view of it as tendency to realization, yet Aristotle doubted no more than Plato that the fully realized reality, the divine and ultimate, is changeless. Though it is called Activity or Energy, the Activity knew no change, the energy did nothing. It was the activity of an army forever marking time and never going anywhere.

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From this contrast of the permanent with the tran sient arise other features which mark off the Ultimate Reality from the imperfect realities of practical life. Where there is change, there is of necessity numerical plurality, multiplicity, and from variety comes opposition, strife. Change is alteration, or "othering" and this means diversity. Diversity means division, and division means two sides and their conflict. The world which is transient must be a world of discord, for in lacking stability it lacks the government of unity. Did unity completely rule, these would remain an unchang ing totality. What alters has parts and partialities which, not recognizing the rule of unity, assert them selves independently and make life a scene of contention and discord. Ultimate and true Being on the other hand, since it is changeless is Total, All-Comprehensive and One. Since it is One, it knows only harmony, and therefore enjoys complete and eternal Good. It is Perfection.

Degrees of knowledge and truth correspond with de grees of reality point by point. The higher and more complete the Reality the truer and more important the knowledge that refers to it. Since the world of be coming, of origins and perishings, is deficient in true Being, it cannot be known in the best sense. To know it means to neglect its flux and alteration and discover some permanent form which limits the processes that

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alter in time. The acorn undergoes a series of changes; these are knowable only in reference to the fixed form of the oak which is the same in the entire oak species in spite of the numerical diversity of trees. Moreover, this form limits the flux of growth at both ends, the acorn coming from the oak as well as passing into it. Where such unifying and limiting eternal forms cannot be de tected, there is mere aimless variation and fluctuation, and knowledge is out of the question. On the other hand, as objects are approached in which there is no movement at all, knowledge becomes really demonstra tive, certain, perfect truth pure and unalloyed. The heavens can be more truly known than the earth, God the unmoved mover than the heavens.

From this fact follows the superiority of contempla tive to practical knowledge, of pure theoretical specula tion to experimentation, and to any kind of knowing

that depends upon changes in things or that induces change in them. Pure knowing is pure beholding, view ing, noting. It is complete in itself. It looks for nothing beyond itself; it lacks nothing and hence has no aim or purpose. It is most emphatically its own excuse for being. Indeed, pure contemplative knowing is so much the most truly self-enclosed and self-sufficient thing in the universe that it is the highest and indeed the only attribute that can be ascribed to God, the Highest Being in the scale of Being. Man himself is

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divine in the rare moments when he attains to purely self-sufficient theoretical insight.

In contrast with such knowing, the so-called knowing of the artisan is base. He has to bring about changes in things, in wood and stone, and this fact is of itself evidence that his material is deficient in Being. What condemns his knowledge even more is the fact that it is not disinterestedly for its own sake. It has reference to results to be attained, food, clothing, shelter, etc. It is concerned with things that perish, the body and its needs. It thus has an ulterior aim, and one which itself testifies to imperfection. For want, desire, affection of every sort, indicate lack. Where there is need and desire as in the case of all practical knowledge and activity there is incompleteness and insufficiency. While civic or political and moral knowledge rank higher than do the conceptions of the artisan, yet in trinsically considered they are a low and untrue type. Moral and political action is practical; that is, it im plies needs and effort to satisfy them. It has an end beyond itself. Moreover, the very fact of association shows lack of self-sufficiency; it shows dependence upon others. Pure knowing is alone solitary, and capable of being carried on in complete, self-sufficing independence.

In short, the measure of the worth of knowledge ac cording to Aristotle, whose views are here summarized, is the degree in which it is purely contemplative. The

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highest degree is attained in knowing ultimate Ideal Being, pure Mind. This is Ideal, the Form of Forms, because it has no lacks, no needs, and experiences no change or variety. It has no desires because in it all desires are consummated. Since it is perfect Being, it is perfect Mind and perfect Bliss; the acme of ration ality and ideality. One point more and the argument is completed. The kind of knowing that concerns itself with this ultimate reality (which is also ultimate ideality) is philosophy. Philosophy is therefore the last and highest term in pure contemplation. Whatever may be said for any other kind of knowledge, philos ophy is self-enclosed. It has nothing to do beyond itself; it has no aim or purpose or function except to be philosophy that is, pure, self-sufficing beholding of ultimate reality. There is of course such a thing as philosophic study which falls short of this perfection. Where there is learning, there is change and becoming. But the function of study and learning of philosophy is, as Plato put it, to convert the eye of the soul from dwelling contentedly upon the images of things, upon

the inferior realities that are born and that decay, and to lead it to the intuition of supernal and eternal Being. Thus the mind of the knower is transformed. It becomes assimilated to what it knows.

Through a variety of channels, especially Neo- Platonism and St. Augustine, these ideas found their

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way into Christian theology; and great scholastic thinkers taught that the end of man is to know True Being, that knowledge is contemplative, that True Being is pure Immaterial Mind, and to know it is Bliss and Salvation. While this knowledge cannot be achieved in this stage of life nor without supernatural aid, yet so far as it is accomplished it assimilates the human mind to the divine essence and so constitutes salvation. Through this taking over of the conception of knowl edge as Contemplative into the dominant religion of Europe, multitudes were affected who were totally inno cent of theoretical philosophy. There was bequeathed to generations of thinkers as an unquestioned axiom the idea that knowledge is intrinsically a mere beholding or viewing of reality the spectator conception of knowledge. So deeply engrained was this idea that it prevailed for centuries after the actual progress of science had demonstrated that knowledge is power to transform the world, and centuries after the practice of effective knowledge had adopted the method of experimentation.

Let us turn abruptly from this conception of the measure of true knowledge and the nature of true philos ophy to the existing practice of knowledge. Nowa days if a man, say a physicist or chemist, wants to know something, the last thing he does is merely to con template. He does not look in however earnest and

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prolonged way upon the object expecting that thereby he will detect its fixed and characteristic form. He does not expect any amount of such aloof scrutiny to reveal to him any secrets. He proceeds to do something, to bring some energy to bear upon the substance to see how it reacts; he places it under unusual conditions in order to induce some change. While the astronomer cannot change the remote stars, even he no longer merely gazes. If he cannot change the stars themselves, he can at least by lens and prism change their light as it reaches the earth; he can lay traps for discovering changes which would otherwise escape notice. Instead of taking an antagonistic attitude toward change and denying it to the stars because of their divinity and perfection, he is on constant and alert watch to find some change through which he can form an inference as to the formation of stars and systems of stars.

Change in short is no longer looked upon as a fall from grace, as a lapse from reality or a sign of im perfection of Being. Modern science no longer tries to find some fixed form or essence behind each process of change. Rather, the experimental method tries to break down apparent fixities and to induce changes. The form that remains unchanged to sense, the form of seed or tree, is regarded

not as the key to knowledge of the thing, but as a wall, an obstruction to be broken down. Consequently the scientific man experiments with

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this and that agency applied to this and that condition until something begins to happen; until there is, as we say, something doing. He assumes that there is change going on all the time, that there is movement within each thing in seeming repose; and that since the process is veiled from perception the way to know it is to bring the thing into novel circumstances until change becomes evident. In short, the thing which is to be accepted and paid heed to is not what is originally given but that which emerges after the thing has been set under a great variety of circumstances in order to see how it behaves.

Now this marks a much more general change in the human attitude than perhaps appears at first sight. It signifies nothing less than that the world or any part of it as it presents itself at a given time is accepted or acquiesced in only as material for change. It is accepted precisely as the carpenter, say, accepts things as he finds them. If he took them as things to be observed and noted for their own sake, he never would be a carpenter. He would observe, describe, record tho structures, forms and changes which things exhibit to him, and leave the matter there. If perchance some of the changes going on should present him with a shelter, so much the better. But what makes the carpenter a builder is the fact that he notes things not just as objects in themselves, but with reference to what he

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wants to do to them and with them; to the end he has in mind. Fitness to effect certain special changes that he wishes to see accomplished is what concerns him in the wood and stones and iron which he observes. His attention is directed to the changes they undergo and the changes they make other things undergo so that he may select that combination of changes which will yield him his desired result. It is only by these processes of active manipulation of things in order to realize his purpose that he discovers what the properties of things are. If he foregoes his own purpose and in the name of a meek and humble subscription to things as they " really are " refuses to bend things as they " are " to his own purpose, he not only never achieves his pur pose but he never learns what the things themselves are. They are what they can do and what can be done with them, things that can be found by deliberate trying.

The outcome of this idea of the right way to know is a profound modification in man s attitude toward the natural world. Under differing social conditions, the older or classic conception sometimes bred resignation and submission; sometimes contempt and desire to escape; sometimes, notably in the case of the Greeks, a keen esthetic curiosity which showed itself in acute noting of all the traits of given objects. In fact, the whole conception of knowledge as beholding and noting is fundamentally an idea connected with esthetic enjoy-

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ment and appreciation where the environment is beauti ful and life is serene, and with esthetic repulsion and depreciation where life is troubled, nature morose and hard. But in the degree in which the active conception of knowledge prevails, and the environment is regarded as something that has to be changed in order to be truly known, men are imbued with courage, with what may almost be termed an aggressive attitude toward na ture. The latter becomes plastic, something to be subjected to human uses. The moral disposition toward change is deeply modified. This loses its pathos, it ceases to be haunted with melancholy through suggest ing only decay and loss. Change becomes significant of new possibilities and ends to be attained; it becomes prophetic of a better future. Change is associated with progress rather than with lapse and fall. Since changes are going on anyway, the great thing is to learn enough about them so that we be able to lay hold of them and turn them in the direction of our desires. Conditions and events are neither to be fled from nor passively acquiesced in; they are to be utilized and directed. They are either obstacles to our ends or else means for their accomplishment. In a profound sense knowing ceases to be contemplative and becomes practical.

Unfortunately men, educated men, cultivated men in particular, are still so dominated by the older concep tion of an aloof and self-sufficing reason and knowledge

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that they refuse to perceive the import of this doctrine. They think they are sustaining the cause of impartial, thorough-going and disinterested reflection when they maintain the traditional philosophy of intellectualism that is, of knowing as something self-sufficing and self- enclosed. But in truth, historic intellectualism, the spectator view of knowledge, is a purely compensatory doctrine which men of an intellectual turn have built up to console themselves for the actual and social im- potency of the calling of thought to which they are devoted. Forbidden by conditions and held back by lack of courage from making their knowledge a factor in the determination of the course of events, they have sought a refuge of complacency in the notion that know ing is something too sublime to be contaminated by con tact with things of change and practice. They have transformed knowing into a morally irresponsible estheticism. The true import of the doctrine of the operative or practical character of knowing, of intelli gence, is objective. It means that the structures and objects which science and philosophy set up in contrast to the things and events of concrete daily experience do not constitute a realm apart in which rational con templation may rest satisfied; it means that they represent the selected obstacles, material means and ideal methods of giving direction to that change which is bound to occur anyway.

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This change of human disposition toward the world does not mean that man

ceases to have ideals, or ceases to be primarily a creature of the imagination. But it does signify a radical change in the character and function of the ideal realm which man shapes for him self. In the classic philosophy, the ideal world is essentially a haven in which man finds rest from the storms of life; it is an asylum in which he takes refuge from the troubles of existence with the calm assurance that it alone is supremely real. When the belief that knowl edge is active and operative takes hold of men, the ideal realm is no longer something aloof and separate; it is rather that collection of imagined possibilities that stimulates men to new efforts and realizations. It still remains true that the troubles which men undergo are the forces that lead them to project pictures of a better state of things. But the picture of the better is shaped so that it may become an instrumentality of action, while in the classic view the Idea belongs ready-made in a noumenal world. Hence, it is only an object of personal aspiration or consolation, while to the modern, an idea is a suggestion of something to be done or of a way of doing.

An illustration will, perhaps, make the difference clear. Distance is an obstacle, a source of trouble. It separates friends and prevents intercourse. It isolates, and makes contact and mutual understanding difficult.

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This state of affairs provokes discontent and restless ness; it excites the imagination to construct pictures of a state of things where human intercourse is not in juriously affected by space. Now there are two ways out. One way is to pass from a mere dream of some heavenly realm in which distance is abolished and by some magic all friends are in perpetual transparent communication, to pass, I say, from some idle castle-building to philosophic reflection. Space, distance, it will then be argued, is merely phenomenal; or, in a more modern version, subjective. It is not, metaphysically speaking, real. Hence the obstruction and trouble it gives is not after all " real " in the metaphysical sense of reality. Pure minds, pure spirits, do not live in a space world; for them distance is not. Their relation ships in the true world are not in any way affected by special considerations. Their intercommunication is direct, fluent, unobstructed.

Does the illustration involve a caricature of ways of philosophizing with which we are all familiar? But if it is not an absurd caricature, does it not suggest that much of what philosophies have taught about the ideal and noumenal or superiorly real world, is after all, only casting a dream into an elaborate dialectic form through the use of a speciously scientific terminology? Practically, the difficulty, the trouble, remains. Practically, however it may be "metaphysically," space is

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still real: it acts in a definite objectionable way. Again, man dreams of some better state of things. From troublesome fact he takes refuge in fantasy. But this time, the refuge does not remain a permanent and remote asylum.

The idea becomes a standpoint from which to examine existing occurrences and to see if there is not among them something which gives a hint of how communication at a distance can be effected, something to be utilized as a medium of speech at long range. The sug gestion or fancy though still ideal is treated as a possibility capable of realization in the concrete natural world, not as a superior reality apart from that world. As such, it becomes a platform from which to scrutinize natural events. Observed from the point of view of this possibility, things disclose properties hitherto unde tected. In the light of these ascertainments, the idea of some agency for speech at a distance becomes less vague and floating: it takes on positive form. This action and reaction goes on. The possibility or idea is employed as a method for observing actual existence; and in the light of what is discovered the possibility takes on concrete existence. It becomes less of a mere idea, a fancy, a wished-for possibility, and more of an actual fact. Invention proceeds, and at last we have the telegraph, the telephone, first through wires, and then with no artificial medium. The concrete environ-

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ment is transformed in the desired direction; it is idealized in fact and not merely in fancy. The ideal is realized through its own use as a tool or method of inspection, experimentation, selection and combination of concrete natural operations.

Let us pause to take stock of results. The division of the world into two kinds of Being, one superior, accessible only to reason and ideal in nature, the other inferior, material, changeable, empirical, accessible to sense-observation, turns inevitably into the idea that knowledge is contemplative in nature. It assumes a contrast between theory and practice which was all to the disadvantage of the latter. But in the actual course of the development of science, a tremendous change has come about. When the practice of knowledge ceased to be dialectical and became experimental, knowing became preoccupied with changes and the test of knowledge be came the ability to bring about certain changes. Know ing, for the experimental sciences, means a certain kind of intelligently conducted doing; it ceases to be con templative and becomes in a true sense practical. Now this implies that philosophy, unless it is to undergo a complete break with the authorized spirit of science, must also alter its nature. It must assume a practical nature; it must become operative and experimental. And we have pointed out what an enormous change this transformation of philosophy entails in the two con-

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ceptions which have played the greatest role in historic philosophizing the conceptions of the " real " and " ideal " respectively. The former ceases to be some thing ready-made and final; it becomes that which has to be accepted as the material of change, as the obstructions and the means of certain specific desired changes. The ideal and rational also ceased to be a separate ready-made world incapable of being used as a lever to transform the actual empirical world, a mere

asylum from empirical deficiencies. They represent intelligently thought-out possibilities of the existent world which may be used as methods for making over and improving it. Philosophically speaking, this is the great difference involved in the change from knowledge and philosophy as contemplative to operative. The change does not mean the lowering in dignity of philosophy from a lofty plane to one of gross utilitarianism. It signifies that the prime function of philosophy is that of rationaliz ing the possibilities of experience, especially collective human experience. The scope of this change may be realized by considering how far we are from accomplish ing it. In spite of inventions which enable men to use the energies of nature for their purposes, we are still far from habitually treating knowledge as the method of active control of nature and of experience. We tend to think of it after the model of a spectator viewing a finished picture rather than after that of the artist

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producing the painting. Thus there arise all the questions of epistemology with which the technical student of philosophy is so familiar, and which have made modern philosophy in especial so remote from the under standing of the everyday person and from the results and processes of science. For these questions all spring from the assumption of a merely beholding mind on one side and a foreign and remote object to be viewed and noted on the other. They ask how a mind and world, subject and object, so separate and independent can by any possibility come into such relationship to each other as to make true knowledge possible. If knowing were habitually conceived of as active and operative, after the analogy of experiment guided by hypothesis, or of invention guided by the imagination of some possibility, it is not too much to say that the first effect would be to emancipate philosophy from all the epistemological puzzles which now perplex it. For these all arise from a conception of the relation of mind and world, subject and object, in knowing, which as sumes that to know is to seize upon what is already in existence.

Modern philosophic thought has been so preoccupied with these puzzles of epistemology and the disputes between realist and idealist, between phenomenalist and absolutist, that many students are at a loss to know what would be left for philosophy if there were removed

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both the metaphysical task of distinguishing between the noumenal and phenomenal worlds and the epistemological task of telling how a separate subject can know an independent object. But would not the elimination of these traditional problems permit philosophy to devote itself to a more fruitful and more needed task? Would it not encourage philosophy to face the great social and moral defects and troubles from which humanity suffers, to concentrate its attention upon clearing up the causes and exact nature of these evils and upon developing a clear idea of better social possibilities; in short upon projecting an idea or ideal which, instead of expressing the notion of another world or some far-away

unrealizable goal, would be used as a method of understanding and rectifying specific social ills?

This is a vague statement. But note in the first place that such a conception of the proper province of philosophy where it is released from vain metaphysics and idle epistemology is in line with the origin of philosophy sketched in the first hour. And in the second place, note how contemporary society, the world over, is in need of more general and fundamental enlighten ment and guidance than it now possesses. I have tried to show that a radical change of the conception of knowledge from contemplative to active is the inevitable result of the way in which inquiry and invention are now conducted. But in claiming this, it must also be

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conceded, or rather asserted, that so far the change has influenced for the most part only the more technical side of human life. The sciences have created new in dustrial arts. Man s physical command of natural energies has been indefinitely multiplied. There is con trol of the sources of material wealth and prosperity. What would once have been miracles are now daily performed with steam and coal and electricity and air, and with the human body. But there are few persons optimistic enough to declare that any similar command of the forces which control man s social and moral wel fare has been achieved.

Where is the moral progress that corresponds to our economic accomplishments? The latter is the direct fruit of the revolution that has been wrought in physical science. But where is there a correspond ing human science and art? Not only has the im provement in the method of knowing remained so far mainly limited to technical and economic matters, but this progress has brought with it serious new moral disturbances. I need only cite the late war, the problem of capital and labor, the relation of economic classes, the fact that while the new science has achieved wonders in medicine and surgery, it has also produced and spread occasions for diseases and weaknesses. These consider ations indicate to us how undeveloped are our politics, how crude and primitive our education, how passive and

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inert our morals. The causes remain which brought philosophy into existence as an attempt to find an in telligent substitute for blind custom and blind impulse as guides to life and conduct. The attempt has not been successfully accomplished. Is there not reason for believing that the release of philosophy from its burden of sterile metaphysics and sterile epistemology instead of depriving philosophy of problems and subject-matter would open a way to questions of the most perplexing and the most significant sort?

Let me specify one problem quite directly suggested by certain points in this lecture. It has been pointed out that the really fruitful application of the contemplative idea was not in science but in the esthetic field. It is difficult to imagine

any high development of the fine arts except where there is curious and loving in terest in forms and motions of the world quite irrespec tive of any use to which they may be put. And it is not too much to say that every people that has attained a high esthetic development has been a people in which the contemplative attitude has flourished as the Greek, the Hindoo, the medieval Christian. On the other hand, the scientific attitude that has actually proved itself in scientific progress is, as has been pointed out, a prac tical attitude. It takes forms as disguises for hidden processes. Its interest in change is in what it leads to, what can be done with it, to what use it can be put.

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While it has brought nature under control, there is something hard and aggressive in its attitude toward nature unfavorable to the esthetic enjoyment of the world. Surely there is no more significant question be fore the world than this question of the possibility and method of reconciliation of the attitudes of practical science and contemplative esthetic appreciation. With out the former, man will be the sport and victim of natural forces which he cannot use or control. With out the latter, mankind might become a race of economic monsters, restlessly driving hard bargains with nature and with one another, bored with leisure or capable of putting it to use only in ostentatious display and ex travagant dissipation.

Like other moral questions, this matter is social and even political. The western peoples advanced earlier on the path of experimental science and its applications in control of nature than the oriental. It is not, I suppose wholly fanciful, to believe that the latter have embodied in their habits of life more of the contemplative, esthetic and speculatively religious temper, and the former more of the scientific, industrial and practical. This difference and others which have grown up around it is one barrier to easy mutual understanding, and one source of misunderstanding. The philosophy which, then, makes a serious effort to comprehend these respective attitudes in their relation and due balance,

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could hardly fail to promote the capacity of peoples to profit by one another s experience and to co-operate more effectually with one another in the tasks of fruit ful culture.

Indeed, it is incredible that the question of the relation of the "real" and the "ideal" should ever have been thought to be a problem belonging distinctively to philosophy. The very fact that this most serious of all human issues has been taken possession of by philosophy is only another proof of the disasters that follow in the wake of regarding knowledge and intellect as something self-sufficient. Never have the "real" and the "ideal" been so clamorous, so self-assertive, as at the present time. And never in the history of the world have they been so far apart. The world war was car ried on for purely ideal ends: for humanity, justice and equal liberty for strong and weak alike. And it was carried on by realistic means of applied science, by high explosives, and bombing airplanes and blockading marvels of mechanism that reduced the world well nigh to ruin, so

that the serious-minded are concerned for the perpetuity of those choice values we call civilization. The peace settlement is loudly proclaimed in the name of the ideals that stir man's deepest emotions, but with the most realistic attention to details of economic advantage distributed in proportion to physical power to create future disturbances.

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It is not surprising that some men are brought to regard all idealism as a mere smoke-screen behind which the search for material profit may be more effectually carried on, and are converted to the materialistic inter pretation of history. "Reality " is then conceived as physical force and as sensations of power, profit and enjoyment; any politics that takes account of other factors, save as elements of clever propaganda and for control of those human beings who have not become realistically enlightened, is based on illusions. But others are equally sure that the real lesson of the war is that humanity took its first great wrong step when it entered upon a cultivation of physical science and an application of the fruits of science to the improve ment of the instruments of life industry and com merce. They will sigh for the return of the day when, while the great mass died as they were born in animal fashion, the few elect devoted themselves not to science and the material decencies and comforts of existence but to " ideal " things, the things of the spirit.

Yet the most obvious conclusion would seem to be the impotency and the harmfulness of any and every ideal that is proclaimed wholesale and in the abstract, that is, as something in itself apart from the detailed concrete existences whose moving possibilities it em bodies. The true moral would seem to lie in en forcing the tragedy of that idealism which believes

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in a spiritual world which exists in and by itself, and the tragic need for the most realistic study of forces and consequences, a study conducted in a more scientifically accurate and complete manner than that of the professed Realpolitik. For it is not truly realistic or scientific to take short views, to sacrifice the future to immediate pressure, to ignore facts and forces that are disagreeable and to magnify the enduring quality of whatever falls in with immediate desire. It is false that the evils of the situation arise from absence of ideals; they spring from wrong ideals. And these wrong ideals have in turn their foundation in the absence in social matters of that methodic, systematic, impartial, critical, searching inquiry into " real " and opera tive conditions which we call science and which has brought man in the technical realm to the command of physical energies.

Philosophy, let it be repeated, cannot "solve" the problem of the relation of the ideal and the real. That is the standing problem of life. But it can at least lighten the burden of humanity in dealing with the problem by emancipating mankind from the errors which philosophy has itself fostered the existence of conditions which are real apart from their movement into something new and

different, and the existence of ideals, spirit and reason independent of the possi bilities of the material and physical. For as long

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as humanity is committed to this radically false bias, it will walk forward with blinded eyes and bound limbs. And philosophy can effect, if it will, something more than this negative task. It can make it easier for mankind to take the right steps in action by making it clear that a sympathetic and integral intelligence brought to bear upon the observation and understanding of concrete social events and forces, can form ideals, that is aims, which shall not be either illusions or mere emotional compensations.

CHAPTER VI

THE SIGNIFICANCE OF LOGICAL RECON STRUCTION

LOGIC like philosophy itself suffers from a curious oscillation. It is elevated into the supreme and legisla tive science only to fall into the trivial estate of keeper of such statements as A is A and the scholastic verses for the syllogistic rules. It claims power to state the laws of the ultimate structure of the universe, on the ground that it deals with the laws of thought which are the laws according to which Reason has formed the world. Then it limits its pretensions to laws of correct reasoning which is correct even though it leads to no matter of fact, or even to material falsity. It is regarded by the modern objective idealist as the ade quate substitute for ancient ontological metaphysics; but others treat it as that branch of rhetoric which teaches proficiency in argumentation. For a time a superficial compromise equilibrium was maintained wherein the logic of formal demonstration which the Middle Ages extracted from Aristotle was supple mented by an inductive logic of discovery of truth that Mill extracted from the practice of scientific men. But

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students of German philosophy, of mathematics, and of psychology, no matter how much they attacked one another, have made common cause in attack upon the orthodox logics both of deductive proof and inductive discovery.

Logical theory presents a scene of chaos. There is little agreement as to its subject-matter, scope or pur pose. This disagreement is not formal or nominal but affects the treatment of every topic. Take such a rudimentary matter as the nature of judgment. Reputable authority can be quoted in behalf of every possible permutation of doctrine. Judgment is the central thing in logic; and judgment is not logical at all, but personal and psychological. If logical, it is the primary function to which both conception and inference arc subordinate; and it is an after-product from them. The distinction of subject and predicate is necessary, and it is totally irrelevant; or again, though it is found in some cases, it is not of great importance. Among those who hold that the subject-predicate

relationship is essential, some hold that judgment is an analysis of some thing prior into them, and others assert that it is a synthesis of them into something else. Some hold that reality is always the subject of judgment, and others that "reality" is logically irrelevant. Among those who deny that judgment is the attribution of predicate to subject, who regard it as a relation of elements,

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some hold that the relation is "internal," some that it is "external," and others that it is sometimes one and sometimes the other.

Unless logic is a matter of some practical account, these contrarieties are so numerous, so extensive, and so irreconcilable that they are ludicrous. If logic is an affair of practical moment, then these inconsistencies are serious. They testify to some deep-lying cause of intellectual disagreement and incoherency. In fact, contemporary logical theory is the ground upon which all philosophical differences and disputes are gath ered together and focussed. How does the modification in the traditional conception of the relation of experi ence and reason, the real and ideal affect logic?

It affects, in the first place, the nature of logic itself. If thought or intelligence is the means of intentional reconstruction of experience, then logic, as an account of the procedure of thought, is not purely formal. It is not confined to laws of formally correct reasoning apart from truth of subject-matter. Neither, on the contrary, is it concerned with the inherent thought structures of the universe, as Hegel's logic would have it; nor with the successive approaches of human thought to this objective thought structure as the logic of Lotze, Bosanquet, and other epistemological logicians would have it. If thinking is the way in which deliberate re organization of experience is secured, then logic is such

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a clarified and systematized formulation of the pro cedures of thinking as will enable the desired reconstruction to go on more economically and efficiently. In language familiar to students, logic is both a science and an art; a science so far as it gives an organized and tested descriptive account of the way in which thought actually goes on; an art, so far as on the basis of this description it projects methods by which future thinking shall take advantage of the operations that lead to success and avoid those which result in failure.

Thus is answered the dispute whether logic is em pirical or normative, psychological or regulative. It is both. Logic is based on a definite and executive supply of empirical material. Men have been thinking for ages. They have observed, inferred, and reasoned in all sorts of ways and to all kinds of results. Anthropology, the study of the origin of myth, legend and cult; linguistics and grammar; rhetoric and former logical compositions all tell us how men have thought and what have been the purposes and consequences of different kinds of think ing. Psychology, experimental and pathological, makes important contributions to our knowledge of how think ing goes on and to what effect. Especially does the

record of the growth of the various sciences afford in struction in those concrete ways of inquiry and testing which have led men astray and which have proved ef ficacious. Each science from mathematics to history

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exhibits typical fallacious methods and typical efficacious methods in special subject-matters. Logical theory has thus a large, almost inexhaustible field of empirical study.

The conventional statement that experience only tells us how men have thought or do think, while logic is concerned with norms, with how men should think, is ludicrously inept. Some sorts of thinking are shown by experience to have got nowhere, or worse than nowhere into systematized delusion and mistake. Others have proved in manifest experience that they lead to fruitful and enduring discoveries. It is precisely in experience that the different consequences of different methods of investigation and ratiocination are convincingly shown. The parrot-like repetition of the distinction be tween an empirical description of what is and a norma tive account of what should be merely neglects the most striking fact about thinking as it empirically is namely, its flagrant exhibition of cases of failure and success that is, of good thinking and bad thinking. Any one who considers this empirical manifestation will not complain of lack of material from which to con struct a regulative art. The more study that is given to empirical records of actual thought, the more apparent becomes the connection between the specific features of thinking which have produced failure and success. Out of this relationship of cause and effect

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as it is empirically ascertained grow the norms and regulations of an art of thinking.

Mathematics is often cited as an example of purely normative thinking dependent upon a priori canons and supra-empirical material. But it is hard to see how the student who approaches the matter historically can avoid the conclusion that the status of mathematics is as empirical as that of metallurgy. Men began with counting and measuring things just as they began with pounding and burning them. One thing, as common speech profoundly has it, led to another. Certain ways were successful not merely in the immediately practical sense, but in the sense of being interesting, of arousing attention, of exciting attempts at improvement. The present-day mathematical logician may present the structure of mathematics as if it had sprung all at once from the brain of a Zeus whose anatomy is that of pure logic. But, nevertheless, this very structure is a product of long historic growth, in which all kinds of experi ments have been tried, in which some men have struck out in this direction and some in that, and in which some exercises and operations have resulted in confusion and others in triumphant clarifications and fruitful growths; a history in which matter and methods have been con stantly selected and worked over on the basis of em pirical success and failure.

The structure of alleged normative a priori mathe-

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matics is in truth the crowned result of ages of toilsome experience. The metallurgist who should write on the most highly developed method of dealing with ores would not, in truth, proceed any differently. He too selects, re fines, and organizes the methods which in the past have been found to yield the maximum of achievement. Logic is a matter of profound human importance precisely because it is empirically founded and experimentally applied. So considered, the problem of logical theory is none other than the problem of the possibility of the development and employment of intelligent method in inquiries concerned with deliberate reconstruction of experience. And it is only saying again in more spe cific form what has been said in general form to add that while such a logic has been developed in re spect to mathematics and physical science, intelli gent method, logic, is still far to seek in moral and political affairs.

Assuming, accordingly, this idea of logic without argument, let us proceed to discuss some of its chief features. First, light is thrown by the origin of think ing upon a logic which shall be a method of intelligent guidance of experience. In line with what has already been said about experience being a matter primarily of behavior, a sensori-motor matter, is the fact that think ing takes its departure from specific conflicts in experi ence that occasion perplexity and trouble. Men do not,

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in their natural estate, think when they have no troubles to cope with, no difficulties to overcome. A life of ease, of success without effort, would be a thoughtless life, and so also would a life of ready omnipotence. Be ings who think are beings whose life is so hemmed in and constricted that they cannot directly carry through a course of action to victorious consummation. Men also do not tend to think when their action, when they are amid difficulties, is dictated to them by authority. Soldiers have difficulties and restrictions in plenty, but qua soldiers (as Aristotle would say) they are not no torious for being thinkers. Thinking is done for them, higher up. The same is too true of most workingmen under present economic conditions. Difficulties occasion thinking only when thinking is the imperative or urgent way out, only when it is the indicated road to a solu tion. Wherever external authority reigns, thinking is suspected and obnoxious.

Thinking, however, is not the only way in which a personal solution of difficulties is sought. As we have seen, dreams, reveries, emotional idealizations are roads which are taken to escape the strain of perplexity and conflict. According to modern psychology, many sys tematized delusions and mental disorders, probably hys teria itself, originate as devices for getting freedom from troublesome conflicting factors. Such considera tions throw into relief some of the traits essential to

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thinking as a way of responding to difficulty. The short-cut "solutions" alluded to do not get rid of the conflict and problems; they only get rid of the feeling of it. They cover up consciousness of it. Because the conflict remains in fact and is evaded in thought, dis orders arise.

The first distinguishing characteristic of thinking then is facing the facts inquiry, minute and extensive scrutinizing, observation. Nothing has done greater harm to the successful conduct of the enterprise of thinking (and to the logics which reflect and formulate the undertaking) than the habit of treating observation as something outside of and prior to thinking, and thinking as something which can go on in the head with out including observation of new facts as part of itself. Every approximation to such "thinking" is really an approach to the method of escape and self-delusion just referred to. It substitutes an emotionally agreeable and rationally self-consistent train of meanings for inquiry into the features of the situation which cause the trouble. It leads to that type of Idealism which has well been termed intellectual somnambulism. It creates a class of "thinkers" who are remote from practice and hence from testing their thought by application a socially superior and irresponsible class. This is the condition causing the tragic division of theory and practice, and leading to an unreasonable exaltation of theory on one

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side and an unreasonable contempt for it on the other. It confirms current practice in its hard brutalities and dead routines just because it has transferred thinking and theory to a separate and nobler region. Thus has the idealist conspired with the materialist to keep actual life impoverished and inequitable.

The isolation of thinking from confrontation with facts encourages that kind of observation which merely accumulates brute facts, which occupies itself labori ously with mere details, but never inquires into their meaning and consequences a safe occupation, for it never contemplates any use to be made of the ob served facts in determining a plan for changing the situation. Thinking which is a method of reconstruct ing experience treats observation of facts, on the other hand, as the indispensable step of defining the problem, of locating the trouble, of forcing home a definite, in stead of a merely vague emotional, sense of what the difficulty is and where it lies. It is not aimless, random, miscellaneous, but purposeful, specific and limited by the character of the trouble undergone. The purpose is so to clarify the disturbed and confused situation that reasonable ways of dealing with it may be suggested. When the scientific man appears to observe aimlessly, it is merely that he is so in love with problems as sources and guides of inquiry, that he is striving to turn up a problem where none appears on the surface: he

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is, as we say, hunting for trouble because of the satis faction to be had in coping with it.

Specific and wide observation of concrete fact always, then, corresponds not only with a sense of a problem or difficulty, but with some vague sense of the meaning of the difficulty, that is, of what it imports or signifies in subsequent experience. It is a kind of anticipation or prediction of what is coming. We speak, very truly, of impending trouble, and in observing the signs of what the trouble is, we are at the same time expecting, fore casting in short, framing an idea, becoming aware of meaning. When the trouble is not only impending but completely actual and present, we are overwhelmed. We do not think, but give way to depression. The kind of trouble that occasions thinking is that which is in complete and developing, and where what is found, already in existence can be employed as a sign from which to infer what is likely to come. When we intelli gently observe, we are, as we say apprehensive, as well as apprehending. We are on the alert for something still to come. Curiosity, inquiry, investigation, are di rected quite as truly into what is going to happen next as into what has happened. An intelligent interest in the latter is an interest in getting evidence, indications, symptoms for inferring the former. Observation is diagnosis and diagnosis implies an interest in anticipa tion and preparation. It makes ready in advance an

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attitude of response so that we shall not be caught unawares.

That which is not already in existence, that which is only anticipated and inferred, cannot be observed. It does not have the status of fact, of something given, a datum, but of a meaning, an idea. So far as ideas are not fancies, framed by emotionalized memory for escape and refuge, they are precisely anticipations of some thing still to come aroused by looking into the facts of a developing situation. The blacksmith watches his iron, its color and texture, to get evidence of what it is getting ready to pass into; the physician observes his patient to detect symptoms of change in some definite direction; the scientific man keeps his attention upon his laboratory material to get a clue as to what will happen under certain conditions. The very fact that observation is not an end in itself but a search for evi dence and signs shows that along with observation goes inference, anticipatory forecast in short an idea, thought or conception.

In a more technical context, it would be worth while to see what light this logical correspondence of observed fact and projected idea or meaning throws upon certain traditional philosophical problems and puzzles, includ ing that of subject and predicate in judgment, object and subject in knowledge, " real " and " ideal " gen erally. But at this time, we must confine ourselves to

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pointing out that this view of the correlative origin and function of observed fact and projected idea in experience, commits us to some very important conse quences concerning the nature of ideas, meanings, con ceptions, or whatever word may be employed to denote the specifically mental function. Because they are sug gestions of something that may happen or eventuate, they are (as we saw

in the case of ideals generally) plat forms of response to what is going on. The man who detects that the cause of his difficulty is an automobile bearing down upon him is not guaranteed safety; he may have made his observation-forecast too late. But if his anticipation-perception comes in season, he has the basis for doing something which will avert threaten ing disaster. Because he foresees an impending result, he may do something that will lead to the situation eventuating in some other way. All intelligent thinking means an increment of freedom in action an emancipa tion from chance and fatality. "Thought "represents the suggestion of a way of response that is different from that which would have been followed if intelligent observation had not effected an inference as to the future.

Now a method of action, a mode of response, intended to produce a certain result that is, to enable the black smith to give a certain form to his hot iron, the physi cian to treat the patient so as to facilitate recovery, the

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scientific experimenter to draw a conclusion which will apply to other cases, is by the nature of the case ten tative, uncertain till tested by its results. The significance of this fact for the theory of truth will be discussed below. Here it is enough to note that notions, theories, systems, no matter how elaborate and self-con sistent they are, must be regarded as hypotheses. They are to be accepted as bases of actions which test them, not as finalities. To perceive this fact is to abolish rigid dogmas from the world. It is to recognize that conceptions, theories and systems of thought are always open to development through use. It is to enforce the lesson that we must be on the lookout quite as much for indications to alter them as for opportunities to assert them. They are tools. As in the case of all tools, their value resides not in themselves but in their capacity to work shown in the consequences of their use.

Nevertheless, inquiry is free only when the interest in knowing is so developed that thinking carries with it something worth while for itself, something having its own esthetic and moral interest. Just because knowing is not self-enclosed and final but is instrumental to reconstruction of situations, there is always danger that it will be subordinated to maintaining some precon ceived purpose or prejudice. Then reflection ceases to be complete; it falls short. Being precommitted to

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arriving at some special result, it is not sincere. It is one thing to say that all knowing has an end beyond itself, and another thing, a thing of a contrary kind, to say that an act of knowing has a particular end which it is bound, in advance, to reach. Much less is it true that the instrumental nature of thinking means that it exists for the sake of attaining some private, one-sided advantage upon which one has set one s heart. Any limitation whatever of the end means limitation in the thinking process itself. It signifies that it does not attain its full growth and movement, but is cramped, impeded, interfered with. The only situation in

which knowing is fully stimulated is one in which the end is developed in the process of inquiry and testing.

Disinterested and impartial inquiry is then far from meaning that knowing is self-enclosed and irresponsible. It means that there is no particular end set up in advance so as to shut in the activities of observation, forming of ideas, and application. Inquiry is emanci pated. It is encouraged to attend to every fact that is relevant to defining the problem or need, and to follow up every suggestion that promises a clue. The barriers to free inquiry are so many and so solid that mankind is to be congratulated that the very act of investigation is capable of itself becoming a delightful and absorbing pursuit, capable of enlisting on its side man's sporting instincts.

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Just in the degree in which thought ceases to be held down to ends fixed by social custom, a social division of labor grows up. Investigation has become a domi nant life occupation for some persons. Only super ficially, however, does this confirm the idea that theory and knowledge are ends in themselves. They are, relatively speaking, ends in themselves for some persons. But these persons represent a social division of labor; and their specialization can be trusted only when such persons are in unobstructed co-operation with other social occupations, sensitive to others problems and transmitting results to them for wider application in action. When this social relationship of persons par ticularly engaged in carrying on the enterprise of know ing is forgotten and the class becomes isolated, inquiry loses stimulus and purpose. It degenerates into sterile specialization, a kind of intellectual busy work carried on by socially absent-minded men. Details are heaped up in the name of science, and abstruse dialectical de velopments of systems occur. Then the occupation is "rationalized " under the lofty name of devotion to truth for its own sake. But when the path of true science is retaken these things are brushed aside and forgotten. They turn out to have been the toy- ings of vain and irresponsible men. The only guar antee of impartial, disinterested inquiry is the social sensitiveness of the inquirer to the needs

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and problems of those with whom he is asso ciated.

As the instrumental theory is favorable to high esteem for impartial and disinterested inquiry, so, con trary to the impressions of some critics, it sets much store upon the apparatus of deduction. It is a strange notion that because one says that the cognitive value of conceptions, definitions, generalizations, classifications and the development of consecutive implications is not self-resident, that therefore one makes light of the de ductive function, or denies its fruitfulness and neces sity. The instrumental theory only attempts to state with some scrupulousness where the value is found and to prevent its being sought in the wrong place. It says that knowing begins with specific observations that define the problem and ends with specific observa tions that test a hypothesis for its solution. But that

the idea, the meaning, which the original observations suggest and the final ones test, itself requires careful scrutiny and prolonged development, the theory would be the last to deny. To say that a locomotive is an agency, that it is intermediate between a need in experi ence and its satisfaction, is not to depreciate the worth of careful and elaborate construction of the locomotive, or the need of subsidiary tools and processes that are devoted to introducing improvements into its structure. One would rather say that because the locomotive is

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intermediary in experience, not primary and not final, it is impossible to devote too much care to its con structive development.

Such a deductive science as mathematics represents the perfecting of method. That a method to those con cerned with it should present itself as an end on its own account is no more surprising than that there should be a distinct business for making any tool. Rarely are those who invent and perfect a tool those who employ it. There is, indeed, one marked difference between the physical and the intellectual instrumental ity. The development of the latter runs far beyond any immediately visible use. The artistic interest in perfecting the method by itself is strong as the uten sils of civilization may themselves become works of finest art. But from the practical standpoint this difference shows that the advantage as an instrumentality is on the side of the intellectual tool. Just because it is not formed with a special application in mind, because it is a highly generalized tool, it is the more flexible in adaptation to unforeseen uses. It can be employed in dealing with problems that were not anticipated. The mind is prepared in advance for all sorts of intellectual emergencies, and when the new problem occurs it does not have to wait till it can get a special instrument ready.

More definitely, abstraction is indispensable if one

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experience is to be applicable in other experiences. Every concrete experience in its totality is unique; it is itself, non-reduplicable. Taken in its full concreteness, it yields no instruction, it throws no light. What is called abstraction means that some phase of it is selected for the sake of the aid it gives in grasping something else. Taken by itself, it is a mangled frag ment, a poor substitute for the living whole from which it is extracted. But viewed teleologically or practically, it represents the only way in which one experience can be made of any value for another the only way in which something enlightening can be secured. What is called false or vicious abstractionism signifies that the function of the detached fragment is forgotten and neg lected, so that it is esteemed barely in itself as some thing of a higher order than the muddy and irregular concrete from which it was wrenched. Looked at functionally, not structurally and statically, abstraction means that something has been released from one experi ence for transfer to another. Abstraction is liberation. The more theoretical, the more abstract, an abstraction, or the farther away it is from anything experienced in its concreteness, the better fitted it is to deal with any one of the indefinite

variety of things that may later present themselves. Ancient mathematics and physics were much nearer the gross concrete experi ence than are modern. For that very reason they were

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more impotent in affording any insight into and con trol over such concretes as present themselves in new and unexpected forms.

Abstraction and generalization have always been recognized as close kin. It may be said that they are the negative and positive sides of the same function. Abstraction sets free some factor so that it may be used. Generalization is the use. It carries over and extends. It is always in some sense a leap in the dark. It is an adventure. There can be no assurance in advance that what is extracted from one concrete can be fruitfully extended to another individual case. Since these other cases are individual and concrete they must be dissimilar. The trait of flying is detached from the concrete bird. This abstraction is then carried over to the bat, and it is expected in view of the application of the quality to have some of the other traits of the bird. This trivial instance indicates the essence of generalization, and also illustrates the riskiness of the proceeding. It transfers, extends, applies, a result of some former experience to the reception and interpreta tion of a new one. Deductive processes define, delimit, purify and set in order the conceptions through which this enriching and directive operation is carried on, but they cannot, however perfect, guarantee the out come.

The pragmatic value of organization is so conspicu-

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ously enforced in contemporary life that it hardly seems necessarjr to dwell upon the instrumental significance of classification and systematization. When the existence of qualitative and fixed species was denied to be the supreme object of knowledge, classification was often regarded, especially by the empirical school, as merely a linguistic device. It was convenient for memory and communication to have words that sum up a number of particulars. Classes were supposed to exist only in speech. Later, ideas were recognized as a kind of ter- tium quid between things and words. Classes were al lowed to exist in the mind as purely mental things. The critical disposition of empiricism is well exemplified here. To assign any objectivity to classes was to en courage a belief in eternal species and occult essences and to strengthen the arms of a decadent and obnox ious science a point of view well illustrated in Locke. General ideas are useful in economizing effort, enabling us to condense particular experiences into simpler and more easily carried bunches and making it easier to identify new observations.

So far nominalism and conceptualism the theory that kinds exist only in words or in ideas was on the right track. It emphasized the teleological character of systems and classifications, that they exist for the sake of economy and efficiency in reaching ends. But this truth was perverted into a false notion, because

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the active and doing side of experience was denied or ignored. Concrete things have ways of acting, as many ways of acting as they have points of interaction with other things. One thing is callous, unresponsive, inert in the presence of some other things; it is alert, eager, and on the aggressive with respect to other things; in a third case, it is receptive, docile. Now different ways of behaving, in spite of their endless diversity, may be classed together in view of common relationship to an end. No sensible person tries to do everything. He has certain main interests and leading aims by which he makes his behavior coherent and effective. To have an aim is to limit, select, concentrate, group. Thus a basis is furnished for selecting and organizing things according as their ways of acting are related to car rying forward pursuit. Cherry trees will be differ ently grouped by woodworkers, orchardists, artists, scientists and merry-makers. To the execution of different purposes different ways of acting and re acting on the part of trees are important. Each classification may be equally sound when the difference of ends is borne in mind.

Nevertheless there is a genuine objective standard for the goodness of special classifications. One will further the cabinetmaker in reaching his end while another will hamper him. One classification will assist the botanist in carrying on fruitfully his work of inquiry, and an-

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other will retard and confuse him. The teleological theory of classification does not therefore commit us to the notion that classes are purely verbal or purely mental. Organization is no more merely nominal or mental in any art, including the art of inquiry, than it is in a department store or railway system. The necessity of execution supplies objective criteria. Things have to be sorted out and arranged so that their grouping will promote successful action for ends. Convenience, economy and efficiency are the bases of classification, but these things are not re stricted to verbal communication with others nor to inner consciousness; they concern objective action. They must take effect in the world.

At the same time, a classification is not a bare transcript or duplicate of some finished and done-for arrangement pre-existing in nature. It is rather a repertory of weapons for attack upon the future and the unknown. For success, the details of past knowl edge must be reduced from bare facts to meanings, the fewer, simpler and more extensive the better. They must be broad enough in scope to prepare inquiry to cope with any phenomenon however unexpected. They must be arranged so as not to overlap, for otherwise when they are applied to new events they interfere and produce confusion. In order that there may be ease and economy of movement in dealing with the

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enormous diversity of occurrences that present them selves, we must be able to move promptly and definitely from one tool of attack to another. In other words, our various classes and kinds must be themselves classi fied in graded series from the larger to the more spe cific. There must not only be streets, but

the streets must be laid out with reference to facilitating passage from any one to any other. Classification transforms a wilderness of by-ways in experience into a well- ordered system of roads, promoting transportation and communication in inquiry. As soon as men begin to take foresight for the future and to prepare them selves in advance to meet it effectively and prosper ously, the deductive operations and their results gain in importance. In every practical enterprise there are goods to be produced, and whatever eliminates wasted material and promotes economy and efficiency of pro duction is precious.

Little time is left to speak of the account of the nature of truth given by the experimental and func tional type of logic. This is less to be regretted be cause this account is completely a corollary from the nature of thinking and ideas. If the view held as to the latter is understood, the conception of truth fol lows as a matter of course. If it be not understood, any attempt to present the theory of truth is bound to be confusing, and the theory itself to seem arbi-

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trary and absurd. // ideas, meanings, conceptions, notions, theories, systems are instrumental to an active reorganization of the given environment, to a removal of some specific trouble and perplexity, then the test of their validity and value lies in accomplishing this work. If they succeed in their office, they are reliable, sound, valid, good, true. If they fail to clear up confusion, to eliminate defects, if they increase confusion, uncer tainty and evil when they are acted upon, then are they false. Confirmation, corroboration, verification lie in works, consequences. Handsome is that handsome does. By their fruits shall ye know them. That which guides us truly is true demonstrated capacity for such guid ance is precisely what is meant by truth. The adverb "truly " is more fundamental than either the adjective, true, or the noun, truth. An adverb expresses a way, a mode of acting. Now an idea or conception is a claim or injunction or plan to act in a certain way as the way to arrive at the clearing up of a specific situation. When the claim or pretension or plan is acted upon it guides us truly or falsely; it leads us to our end or away from it. Its active, dynamic function is the all-important thing about it, and in the quality of activity induced by it lies all its truth and falsity. The hypothesis that works is the true one; and truth is an abstract noun applied to the collection of cases, actual, foreseen and desired, that

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receive confirmation in their works and conse quences.

So wholly does the worth of this conception of truth depend upon the correctness of the prior account of thinking that it is more profitable to consider why the conception gives offence than to expound it on its own account. Part of the reason why it has been found so obnoxious is doubtless its novelty and defects in its statement. Too often, for example, when truth has been thought of as satisfaction, it has been thought of as merely emotional satisfaction, a private comfort, a meeting of purely personal need. But the satisfact tion in question means a satisfaction of the needs and conditions of the problem out of which the

idea, the purpose and method of action, arises. It includes public and objective conditions. It is not to be manip ulated by whim or personal idiosyncrasy. Again when truth is defined as utility, it is often thought to mean utility for some purely personal end, some profit upon which a particular individual has set his heart. So repulsive is a conception of truth which makes it a mere tool of private ambition and ag grandizement, that the wonder is that critics have attributed such a notion to sane men. As matter of fact, truth as utility means service in making just that contribution to reorganization in experience that the idea or theory claims to be able to make. The usefulness

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of a road is not measured by the degree in which it lends itself to the purposes of a highwayman. It is measured by whether it actually functions as a road, as a means of easy and effective public transportation and communication. And so with the serviceableness of an idea or hypothesis as a measure of its truth.

Turning from such rather superficial misunderstand ings, we find, I think, the chief obstacle to the recep tion of this notion of truth in an inheritance from the classic tradition that has become so deeply engrained in men s minds. In just the degree in which existence is divided into two realms, a higher one of perfect being and a lower one of seeming, phenomenal, deficient reality, truth and falsity are thought of as fixed, ready- made static properties of things themselves. Supreme Reality is true Being, inferior and imperfect Reality is false Being. It makes claims to Reality which it can not substantiate. It is deceitful, fraudulent, inherently unworthy of trust and belief. Beliefs are false not be cause they mislead us; they are not mistaken ways of thinking. They are false because they admit and ad here to false existences or subsistences. Other notions are true because they do have to do with true Being - with full and ultimate Reality. Such a notion lies at the back of the head of every one who has, in however an indirect way, been a recipient of the ancient and medieval tradition. This view is radically challenged by

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the pragmatic conception of truth, and the impossibility of reconciliation or compromise is, I think, the cause of the shock occasioned by the newer theory.

This contrast, however, constitutes the importance of the new theory as well as the unconscious obstruction to its acceptance. The older conception worked out practically to identify truth with authoritative dogma. A society that chiefly esteems order, that finds growth painful and change disturbing, inevitably seeks for a fixed body of superior truths upon which it may depend. It looks backward, to something already in existence, for the source and sanction of truth. It falls back upon what is antecedent, prior, original, a priori, for assurance. The thought of looking ahead, toward the eventual, toward consequences, creates uneasiness and fear. It disturbs the sense of rest that is attached to the ideas of fixed Truth already in existence. It puts a heavy burden of responsibility upon us for search, unremitting observation, scrupulous development of hypotheses and

thoroughgoing testing. In physical matters men have slowly grown accustomed in all spe cific beliefs to identifying the true with the verified. But they still hesitate to recognize the implication of this identification and to derive the definition of truth from it. For while it is nominally agreed upon as a commonplace that definitions ought to spring from con crete and specific cases rather than be invented in the

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empty air and imposed upon particulars, there is a strange unwillingness to act upon the maxim in defining truth. To generalize the recognition that the true means the verified and means nothing else places upon men the responsibility for surrendering political and moral dogmas, and subjecting to the test of conse quences their most cherished prejudices. Such a change involves a great change in the seat of authority and the methods of decision in society. Some of them, as first fruits of the newer logic, will be considered in the fol lowing lectures.

CHAPTER VII RECONSTRUCTION IN MORAL CONCEPTIONS

THE impact of the alteration in methods of scientific thinking upon moral ideas is, in general, obvious. Goods, ends are multiplied. Rules are softened into principles, and principles are modified into methods of understanding. Ethical theory began among the Greeks as an attempt to find a regulation for the con duct of life which should have a rational basis and purpose instead of being derived from custom. But reason as a substitute for custom was under the obligation of supplying objects and laws as fixed as those of custom had been. Ethical theory ever since has been singularly hypnotized by the notion that its business is to discover some final end or good or some ultimate and supreme law. This is the common element among the diversity of theories. Some have held that the end is loyalty or obedience to a higher power or authority; and they have variously found this higher principle in Divine Will, the will of the secular ruler, the main tenance of institutions in which the purpose of superiors is embodied, and the rational consciousness of duty. But they have differed from one another because there was

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one point in which they were agreed: a single and final source of law. Others have asserted that it is impossible to locate morality in conformity to law-giving power, and that it must be sought in ends that are goods. And some have sought the good in self-realization, some in holiness, some in happiness, some in the greatest pos sible aggregate of pleasures. And yet these schools have agreed in the assumption that there is a single, fixed and final good. They have been able to dis pute with one another only because of their common premise.

The question arises whether the way out of the con fusion and conflict is not to go to the root of the matter by questioning this common element. Is not the belief in the single, final and ultimate (whether con ceived as good or as authoritative

law) an intellectual product of that feudal organization which is disappear ing historically and of that belief in a bounded, ordered cosmos, wherein rest is higher than motion, which has disappeared from natural science? It has been re peatedly suggested that the present limit of intellectual reconstruction lies in the fact that it has not as yet been seriously applied in the moral and social disci plines. Would not this further application demand precisely that we advance to a belief in a plurality of changing, moving, individualized goods and ends, and to a belief that principles, criteria, laws are intellectual

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instruments for analyzing individual or unique situations?

The blunt assertion that every moral situation is a unique situation having its own irreplaceable good may seem not merely blunt but preposterous. For the established tradition teaches that it is precisely the irregularity of special cases which makes necessary the guidance of conduct by universals, and that the es sence of the virtuous disposition is willingness to sub ordinate every particular case to adjudication by a fixed principle. It would then follow that submission of a generic end and law to determination by the concrete situation entails complete confusion and un restrained licentiousness. Let us, however, follow the pragmatic rule, and in order to discover the meaning of the idea ask for its consequences. Then it surpris ingly turns out that the primary significance of the unique and morally ultimate character of the concrete situation is to transfer the weight and burden of morality to intelligence. It does not destroy responsi bility; it only locates it. A moral situation is one in which judgment and choice are required antecedently to overt action. The practical meaning of the situation that is to say the action needed to satisfy it is not self-evident. It has to be searched for. There are con flicting desires and alternative apparent goods. What is needed is to find the right course of action, the right

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good. Hence, inquiry is exacted: observation of the detailed makeup of the situation; analysis into its diverse factors; clarification of what is obscure; dis counting of the more insistent and vivid traits; tracing the consequences of the various modes of action that suggest themselves; regarding the decision reached as hypothetical and tentative until the anticipated or sup posed consequences which led to its adoption have been squared with actual consequences. This inquiry is in telligence. Our moral failures go back to some weak ness of disposition, some absence of sympathy, some one sided bias that makes us perform the judgment of the concrete case carelessly or perversely. Wide sympathy, keen sensitiveness, persistence in the face of the dis agreeable, balance of interests enabling us to undertake the work of analysis and decision intelligently are the distinctively moral traits the virtues or moral excel lencies.

It is worth noting once more that the underlying issue is, after all, only the same as that which has been already threshed out in physical inquiry. There too it long seemed as if rational assurance and demonstration could be attained only if we began with universal con ceptions and subsumed particular cases under them. The men who initiated the methods of inquiry that are now everywhere adopted were denounced in their day (and sincerely) as subverters of truth and foes of

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science. If they have won in the end, it is because, as has already been pointed out, the method of universals confirmed prejudices and sanctioned ideas that had gained currency irrespective of evidence for them; while placing the initial and final weight upon the individual case, stimulated painstaking inquiry into facts and ex amination of principles. In the end, loss of eternal truths was more than compensated for in the accession of quotidian facts. The loss of the system of superior and fixed definitions and kinds was more than made up for by the growing system of hypotheses and laws used in classifying facts. After all, then, we are only pleading for the adoption in moral reflection of the logic that has been proved to make for security, strin gency and fertility in passing judgments upon physical phenomena. And the reason is the same. The old method in spite of its nominal and esthetic worship of reason discouraged reason, because it hindered the operation of scrupulous and unremitting in quiry.

More definitely, the transfer of the burden of the moral life from following rules or pursuing fixed ends over to the detection of the ills that need remedy in a special case and the formation of plans and methods for dealing with them, eliminates the causes which have kept moral theory controversial, and which have also kept it remote from helpful contact with the exigencies

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of practice. The theory of fixed ends inevitably leads thought into the bog of disputes that cannot be settled. If there is one summum bonum, one supreme end, what is it? To consider this problem is to place ourselves in the midst of controversies that are as acute now as they were two thousand years ago. Suppose we take a seem ingly more empirical view, and say that while there is not a single end, there also are not as many as there are specific situations that require amelioration; but there are a number of such natural goods as health, wealth, honor or good name, friendship, esthetic appreciation, learning and such moral goods as justice, temperance, benevolence, etc. What or who is to decide the right of way when these ends conflict with one another, as they are sure to do? Shall we resort to the method that once brought such disrepute upon the whole business of ethics: Casuistry? Or shall we have recourse to what Bentham well called the ipse dixlt method: the arbitrary preference of this or that person for this or that end? Or shall we be forced to arrange them all in an order of degrees from the highest good down to the least precious? Again we find ourselves in the middle of unreconciled disputes with no indication of the way out.

Meantime, the special moral perplexities where the aid of intelligence is required go unenlightened. We cannot seek or attain health, wealth, learning, justice

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or kindness in general. Action is always specific, con crete, individualized, unique. And consequently judg ments as to acts to be performed must be similarly specific. To say that a man seeks health or justice is only to say that he seeks to live healthily or justly. These things, like truth, are adverbial. They are modi fiers of action in special cases. How to live healthily or justly is a matter which differs with every person. It varies with his past experience, his opportunities, his temperamental and acquired weaknesses and abilities. Not man in general but a particular man suffering from some particular disability aims to live healthily, and consequently health cannot mean for him exactly what it means for any other mortal. Healthy living is not some thing to be attained by itself apart from other ways of living. A man needs to be healthy in his life, not apart from it, and what does life mean except the aggregate of his pursuits and activities? A man who aims at health as a distinct end becomes a valetudinarian, or a fanatic, or a mechanical performer of exercises, or an athlete so one-sided that his pursuit of bodily develop ment injures his heart. When the endeavor to realize a so-called end does not temper and color all other activities, life is portioned out into strips and fractions. Certain acts and times are devoted to getting health, others to cultivating religion, others to seeking learning, to being a good citizen, a devotee of fine art

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and so on. This is the only logical alternative to sub ordinating all aims to the accomplishment of one alone fanaticism. This is out of fashion at present, but who can say how much of distraction and dissipation in life, and how much of its hard and narrow rigidity is the outcome of men s failure to realize that each situation has its own unique end and that the whole personality should be concerned with it? Surely, once more, what a man needs is to live healthily, and this result so affects all the activities of his life that it cannot be set up as a separate and independent good.

Nevertheless the general notions of health, disease, justice, artistic culture are of great importance: Not, however, because this or that case may be brought ex haustively under a single head and its specific traits shut out, but because generalized science provides a man as physician and artist and citizen, with questions to ask, investigations to make, and enables him to understand the meaning of what he sees. Just in the degree in which a physician is an artist in his work he uses his science, no matter how extensive and accurate, to furnish him with tools of inquiry into the individual case, and with methods of forecasting a method of dealing with it. Just in the degree in which, no matter how great his learning, he subordinates the individual case to some classification of diseases and some generic rule of treatment, he sinks to the level of the routine

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mechanic. His intelligence and his action become rigid, dogmatic, instead of free and flexible.

Moral goods and ends exist only when something has to be done. The fact that something has to be done proves that there are deficiencies, evils in the existent situation. This ill is just the specific ill that it is. It never is an exact duplicate of anything else. Conse quently the good of the situation has to be discovered, projected and attained on the basis of the exact defect and trouble to be rectified. It cannot intelligently be injected into the situation from without. Yet it is the part of wisdom to compare different cases, to gather together the ills from which humanity suffers, and to generalize the corresponding goods into classes. Health, wealth, industry, temperance, amiability, courtesy, learning, esthetic capacity, initiative, courage, patience, enterprise, thoroughness and a multitude of other gen eralized ends are acknowledged as goods. But the value of this systematization is intellectual or analytic. Classifications suggest possible traits to be on the look out for in studying a particular case; they suggest methods of action to be tried in removing the inferred causes of ill. They are tools of insight; their value is in promoting an individualized response in the individual situation.

Morals is not a catalogue of acts nor a set of rules to be applied like drugstore prescriptions or cook-book

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recipes. The need in morals is for specific methods of inquiry and of contrivance: Methods of inquiry to locate difficulties and evils; methods of contrivance to form plans to be used as working hypotheses in dealing with them. And the pragmatic import of the logic of individualized situations, each having its own irre placeable good and principle, is to transfer the attention of theory from preoccupation with general conceptions to the problem of developing effective methods of inquiry.

Two ethical consequences of great moment should be remarked. The belief in fixed values has bred a division of ends into intrinsic and jn^tnuniiJLal, of those that are really worth while in themselves and those that are of importance only as means to intrinsic goods. Indeed, it is often thought to be the very beginning of wisdom, of moral discrimination, to make this distinction. Dia- lectically, the distinction is interesting and seems harm less. But carried into practice it has an import that is tragic. Historically, it has been the source and justification of a hard and fast difference between ideal goods on one side and material goods on the other. At present those who would be liberal conceive intrinsic goods as esthetic in nature rather than as exclusively religious or as intellectually contemplative. But the effect is the same. So-called intrinsic goods, whether religious or esthetic, are divorced from those interests

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of daily life which because of their constancy and urgency form the preoccupation of the great mass. Aristotle used this distinction to declare that slaves and the working class though they are necessary for the state the commonweal are not constituents of it. That which is regarded as merely instrumental must approach drudgery; it cannot command either intellec tual, artistic or moral attention and respect. Anything becomes unworthy whenever it is thought of as intrin sically lacking worth. So men of " ideal " interests have chosen for the most part the way of neglect and escape. The urgency and pressure of " lower " ends have been covered up by polite conventions. Or, they have been relegated to a baser class of mortals in order that the few might be free to attend to the goods that are really or intrinsically worth while. This withdrawal, in the name of higher ends, has left, for mankind at large and especially for energetic " practical " people the lower activities in complete command.

No one can possibly estimate how much of the ob noxious materialism and brutality of our economic life is due to the fact that economic ends have been re garded as merely instrumental. When they are recog nized to be as intrinsic and final in their place as any others, then it will be seen that they are capable of idealization, and that if life is to be worth while, they must acquire ideal and intrinsic value. Esthetic, re-

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ligious and other " ideal " ends are now thin and meagre or else idle and luxurious because of the separation from " instrumental " or economic ends. Only in connection with the latter can they be woven into the texture of daily life arid made substantial and pervasive. The van ity and irresponsibility of values that are merely final and not also in turn means to the enrichment of other occupations of life ought to be obvious. But now the doctrine of " higher " ends gives aid, comfort and sup port to every socially isolated and socially irrespon sible scholar, specialist, esthete and religionist. It pro tects the vanity and irresponsibility of his calling from observation by others and by himself. The moral de ficiency of the calling is transformed into a cause of admiration and gratulation.

The other generic change lies in doing away once for all with the traditional distinction between moral goods, like the virtues, and natural goods like health, economic security, art, science and the like. The point of view under discussion is not the only one which has deplored this rigid distinction and endeavored to abolish it. Some schools have even gone so far as to regard moral excel lencies, qualities of character as of value only because they promote natural goods. But the experimental logic when carried into morals makes every quality that is judged to be good according as it contributes to amelioration of existing ills. And in so doing, it

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enforces the moral meaning of natural science. When all is said and done in criticism of present social de ficiencies, one may well wonder whether the root difficulty does not lie in the separation of natural and moral science. When physics, chemistry, biology, medicine, contribute to the detection of concrete human woes and to the development of plans for remedying them and relieving the human estate, they become moral; they become part of the apparatus of

moral inquiry or science. The latter then loses its peculiar flavor of the didactic and pedantic; its ultra-moralistic and horta tory tone. It loses its thinness and shrillness as well as its vagueness. It gains agencies that are efficacious. But the gain is not confined to the side of moral science. Natural science loses its divorce from humanity; it becomes itself humanistic in quality. It is something to be pursued not in a technical and specialized way for what is called truth for its own sake, but with the sense of its social bearing, its intellectual indispensableness. It is technical only in the sense that it provides the technique of social and moral engineering.

When the consciousness of science is fully impreg nated with the consciousness of human value, the greatest dualism which now weighs humanity down, the split between the material, the mechanical, the scien tific and the moral and ideal will be destroyed. Human forces that now waver because of this division will be

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unified and reinforced. As long as ends are not thought of as individualized according to specific needs and opportunities, the mind will be content with abstrac tions, and the adequate stimulus to the moral or social use of natural science and historical data will be lacking. But when attention is concentrated upon the diversified concretes, recourse to all intellectual materials needed to clear up the special cases will be imperative. At the same time that morals are made to focus in intelligence, things intellectual are moralized. The vexatious and wasteful conflict between naturalism and humanism is terminated.

These general considerations may be amplified. First: Inquiry, discovery take the same place in morals that they have come to occupy in sciences of nature. Validation, demonstration become experimental, a mat ter of consequences. Reason, always an honorific term in ethics, becomes actualized in the methods by which the needs and conditions, the obstacles and resources, of situations are scrutinized in detail, and intelligent plans of improvement are worked out. Remote and abstract generalities promote jumping at conclusions, " anticipations of nature." Bad consequences are then deplored as due to natural perversity and untoward fate. But shifting the issue to analysis of a specific situation makes inquiry obligatory and alert observation of consequences imperative. No past decision nor

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old principle can ever be wholly relied upon to justify a course of action. No amount of pains taken in form ing a purpose in a definite case is final; the conse quences of its adoption must be carefully noted, and f purpose held only as a working hypothesis until results confirm its Tightness. Mistakes are no longer either mere unavoidable accidents to be mourned or moral sins to be expiated and forgiven. They are lessons in wrong methods of using intelligence and instructions as to a better course in the future. They are indications of the need of revision, development, readjust ment. Ends grow, standards of judgment are

improved. Man is under just as much obligation to develop his most advanced standards and ideals as to use conscientiously those which he already possesses. Moral life is protected from falling into formalism and rigid repetition. It is rendered flexible, vital, growing.

In the second place, every case where moral action is required becomes of equal moral importance and urgency with every other. If the need and deficiencies of a specific situation indicate improvement of health as the end and good, then for that situation health is the ulti mate and supreme good. It is no means to some thing else. It is a final and intrinsic value. The same thing is true of improvement of economic status, of making a living, of attending to business and family demands all of the things which under the sanction of

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fixed ends have been rendered of secondary and merely instrumental value, and so relatively base and unim portant. Anything that in a given situation is an end and good at all is of equal worth, rank and dignity with every other good of any other situation, and deserves the same intelligent attention.

We note thirdly the effect in destroying the roots of Phariseeism. We are so accustomed to thinking of this as deliberate hypocrisy that we overlook its intellectual premises. The conception which looks for the end of action within the circumstances of the actual situation will not have the same measure of judgment for all cases. When one factor of the situation is a person of trained mind and large resources, more will be expected than with a person of backward mind and uncultured experience. The absurdity of applying the same stand ard of moral judgment to savage peoples that is used with civilized will be apparent. No individual or group will be judged by whether they come up to or fall short of some fixed result, but by the direction in which they are moving. The bad man is the man who no matter how good he has been is beginning to deteriorate, to grow less good. The good man is the man who no matter how morally unworthy he has been is moving to become better. Such a conception makes one severe in judging himself and humane in judging others. It excludes that arrogance which always accompanies

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judgment based on degree of approximation to fixed ends.

In the fourth place, the process of growth, of im provement and progress, rather than the static outcome and result, becomes the significant thing. Not health as an end fixed once and for all, but the needed im provement in health a continual process is the end and good. The end is no longer a terminus or limit to be reached. It is the active process of transforming the existent situation. Not perfection as a final goal, but the ever-enduring process of perfecting, maturing, refining is the aim in living. Honesty, industry, tem perance, justice, like health, wealth and learning, are not goods to be possessed as they would be if they ex pressed fixed ends to be attained. They are directions of change in the quality

of experience. Growth itself is the only moral " end."

Although the bearing of this idea upon the problem of evil and the controversy between optimism and pessi mism is too vast to be here discussed, it may be worth while to touch upon it superficially. The problem of evil ceases to be a theological and metaphysical one, and is perceived to be the practical problem of reducing, alleviating, as far as may be removing, the evils of life. Philosophy is no longer under obligation to find in genious methods for proving that evils are only ap parent, not real, or to elaborate schemes for explaining

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them away or, worse yet, for justifying them. It as sumes another obligation: That of contributing in however humble a way to methods that will assist us in discovering the causes of humanity sills. Pessimism is a paralyzing doctrine. In declaring that the world is evil wholesale, it makes futile all efforts to discover the remediable causes of specific evils and thereby destroys at the root every attempt to make the world better and happier. Wholesale optimism, which has been the con sequence of the attempt to explain evil away, is, however, equally an incubus.

After ah 1, the optimism that says that the world is already the best possible of all worlds might be regarded as the most cynical of pessimisms. If this is the best possible, what would a world which was fundamentally bad be like? Meliorism is the belief that the specific conditions which exist at one moment, be they com paratively bad or comparatively good, in any event may be bettered. It encourages intelligence to study the positive means of good and the obstructions to their realization, and to put forth endeavor for the improve ment of conditions. It arouses confidence and a reason able hopefulness as optimism does not. For the latter in declaring that good is already realized in ultimate reality tends to make us gloss over the evils that con cretely exist. It becomes too readily the creed of those who live at ease, in comfort, of those who have been sue-

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cessful in obtaining this world s rewards. Too readily optimism makes the men who hold it callous and blind to the sufferings of the less fortunate, or ready to find the cause of troubles of others in their personal vicious- ness. It thus co-operates with pessimism, in spite of the extreme nominal differences between the two, in benumbing sympathetic insight and intelligent effort in reform. It beckons men away from the world of relativity and change into the calm of the absolute and eternal.

The import of many of these changes in moral attitude focusses in the idea of happiness. Happiness has often been made the object of the moralists contempt. Yet the most ascetic moralist has usually restored the idea of happiness under some other name, such as bliss. Goodness without happiness, valor and virtue without satisfaction, ends without conscious enjoyment these things are as intolerable practically as they are self- contradictory in conception. Happiness is

not, however, a bare possession; it is not a fixed attainment. Such a happiness is either the unworthy selfishness which moralists have so bitterly condemned, or it is, even if labelled bliss, an insipid tedium, a millennium of ease in relief from all struggle and labor. It could satisfy only the most delicate of molly-coddles. Happiness is found only in success; but success means succeeding, getting forward, moving in advance. It is an active

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process, not a passive outcome. Accordingly it in cludes the overcoming of obstacles, the elimination of sources of defect and ill. Esthetic sensitiveness and enjoyment are a large constituent in any worthy happi ness. But the esthetic appreciation which is totally separated from renewal of spirit, from re-creation of mind and purification of emotion is a weak and sickly thing, destined to speedy death from starvation. That the renewal and re-creation come unconsciously not by set intention but makes them the more genuine.

Upon the whole, utilitarianism has marked the best in the transition from the classic theory of ends and goods to that which is now possible. It had definite merits. It insisted upon getting away from vague generalities, and down to the specific and concrete. It I subordinated law to human achievement instead of sub- l ordinating humanity to external law. It taught that institutions are made for man and not man for institutions; it actively promoted all issues of reform. It made moral good natural, humane, in touch with the natural goods of life. It opposed unearthly and other worldly morality. Above all, it acclimatized in human imagination the idea of social welfare as a supreme test. But it was still profoundly affected in fundamental points by old ways of thinking. It never questioned the idea of a fixed, final and supreme end. It only questioned the current notions as to the nature of this

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end; and then inserted pleasure and the greatest pos sible aggregate of pleasures in the position of the fixed end.

Such a point of view treats concrete activities and specific interests not as worth while in themselves, or as constituents of happiness, but as mere external means to getting pleasures. The upholders of the old tradition could therefore easily accuse utilitarianism of making not only virtue but art, poetry, religion and the state into mere servile means of attaining sensuous enjoy ments. Since pleasure was an outcome, a result valuable on its own account independently of the active processes that achieve it, happiness was a thing to be possessed and held onto. The acquisitive instincts of man were exaggerated at the expense of the creative. Production was of importance not because of the intrinsic worth of invention and reshaping the world, but because its external results feed pleasure. Like every theory that sets up fixed and final aims, in making the end passive and possessive, it made all active operations mere tools. Labor was an unavoidable evil to be minimized. Security in possession was the chief thing practically.

Material comfort and ease were magnified in contrast with the pains and risk of experimental creation.

These deficiencies, under certain conceivable conditions, might have remained merely theoretical. But the disposition of the times and the interests of those who

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propagated the utilitarian ideas, endowed them with power for social harm. In spite of the power of the new ideas in attacking old social abuses, there were elements in the teaching which operated or protected to sanction new social abuses. The reforming zeal was shown in criticism of the evils inherited from the class system of feudalism, evils economic, legal and political. But the new economic order of capitalism that was superseding feudalism brought its own social evils with it, and some of these ills utilitarianism tended to cover up or defend. The emphasis upon acquisition and pos session of enjoyments took on an untoward color in connection with the contemporary enormous desire for wealth and the enjoyments it makes possible.

If utilitarianism did not actively promote the new economic materialism, it had no means of combating it. Its general spirit of subordinating productive activity to the bare product was indirectly favorable to the cause of an unadorned commercialism. In spite of its interest in a thoroughly social aim, utilitarianism fos tered a new class interest, that of the capitalistic property-owning interests, provided only property was obtained through free competition and not by govern mental favor. The stress that Bentham put on se curity tended to consecrate the legal institution of private property provided only certain legal abuses in connection with its acquisition and transfer were

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abolished. Beati possidentes provided possessions had been obtained in accord with the rules of the competitive game without, that is, extraneous favors from government. Thus utilitarianism gave intellectual confirmation to all those tendencies which make "business" not a means of social service and an opportunity for personal growth in creative power but a way of accumu lating the means of private enjoyments. Utilitarian ethics thus afford a remarkable example of the need of philosophic reconstruction which these lectures have been presenting. Up to a certain point, it reflected the meaning of modern thought and aspirations. But it was still tied down by fundamental ideas of that very order which it thought it had completely left behind: The idea of a fixed and single end lying beyond the diversity of human needs and acts rendered utilitarian ism incapable of being an adequate representative of the modern spirit. It has to be reconstructed through emancipation from its inherited elements.

If a few words are added upon the topic of education, it is only for the sake of suggesting that the educative process is all one with the moral process, since the latter is a continuous passage of experience from worse to better. Education

has been traditionally thought of as preparation: as learning, acquiring certain things be cause they will later be useful. The end is remote, and education is getting ready, is a preliminary to some-

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thing more important to happen later on. Childhood is only a preparation for adult life, and adult life for another life. Always the future, not the present, has been the significant thing in education: Acquisition of knowledge and skill for future use and enjoyment; formation of habits required later in life in business, good citizenship and pursuit of science. Education is thought of also as something needed by some human beings merely because of their dependence upon others. We are born ignorant, unversed, unskilled, immature, and consequently in a state of social dependence. In struction, training, moral discipline are processes by which the mature, the adult, gradually raise the help less to the point where they can look out for themselves. The business of childhood is to grow into the independ ence of adulthood by means of the guidance of those who have already attained it. Thus the process of education as the main business of life ends when the young have arrived at emancipation from social dependence.

These two ideas, generally assumed but rarely explicitly reasoned out, contravene the conception that growing, or the continuous reconstruction of experience, is the only end. If at whatever period we choose to take a person, he is still in process of growth, then education is not, save as a by-product, a preparation for some thing coming later. Getting from the present the degree

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and kind of growth there is in it is education. This is a constant function, independent of age. The best thing that can be said about any special process of education, like that of the formal school period, is that it renders its subject capable of further education: more sensitive to conditions of growth and more able to take advantage of them. Acquisition of skill, possession of knowledge, attainment of culture are not ends: they are marks of growth and means to its continuing.

The contrast usually assumed between the period of education as one of social dependence and of maturity as one of social independence does harm. We repeat over and over that man is a social animal, and then con fine the significance of this statement to the sphere in which sociality usually seems least evident, politics. The heart of the sociality of man is in education. The idea of education as preparation and of adulthood as a fixed limit of growth are two sides of the same obnoxious untruth. If the moral business of the adult as well as the young is a growing and developing experience, then the instruction that comes from social dependencies and interdependencies are as important for the adult as for the child. Moral independence for the adult means ar rest of growth, isolation means induration. We exag gerate the intellectual dependence of childhood so that children are too much kept in leading strings, and then we exaggerate the independence of adult life from inti-

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macy of contacts and communication with others. When the identity of the moral process with the processes of specific growth is realized, the more conscious and formal education of childhood will be seen to be the most economical and efficient means of social advance and reorganization, and it will also be evident that the test of all the institutions of adult life is their effect in furthering continued education. Government, business, art, religion, all social institutions have a meaning, a purpose. That purpose is to set free and to develop the capacities of human individuals without respect to race, sex, class or economic status. And this is all one with saying that the test of their value is the extent to which they educate every individual into the full stature of his possibility. Democracy has many meanings, but if it has a moral meaning, it is found in resolving that the supreme test of all political institutions and industrial arrangements shall be the contribution they make to the all-around growth of every member of society.

CHAPTER VIII

RECONSTRUCTION AS AFFECTING SOCIAL PHILOSOPHY

How can philosophic change seriously affect social philosophy? As far as fundamentals are concerned, every view and combination appears to have been for mulated already. Society is composed of individuals: this obvious and basic fact no philosophy, whatever its pretensions to novelty, can question or alter. Hence these three alternatives: Society must exist for the sake of individuals; or individuals must have their ends and ways of living set for them by society; or else society and individuals are correlative, organic, to one another, society requiring the service and subordination of individuals and at the same time existing to serve them. Beyond these three views, none seems to be logically conceivable. Moreover, while each of the three types in cludes many subspecies and variations within itself, yet the changes seem to have been so thoroughly rung that at most only minor variations are now possible.

Especially would it seem true that the "organic" conception meets all the objections to the extreme indi vidualistic and extreme socialistic theories, avoiding the

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errors alike of Plato and Bentham. Just because so ciety is composed of individuals, it would seem that individuals and the associative relations that hold them to gether must be of coequal importance. Without strong and competent individuals, the bonds and ties that form society have nothing to lay hold on. Apart from associations with one another, individuals are isolated from one another and fade and wither; or are opposed to one another and their conflicts injure individual develop ment. Law, state, church, family, friendship, industrial association, these and other institutions and arrange ments are necessary in order that individuals may grow and find their specific capacities and functions.

With out their aid and support human life is, as Hobbes said, brutish, solitary, nasty.

We plunge into the heart of the matter, by asserting that these various theories suffer from a common defect. They are all committed to the logic of general notions under which specific situations are to be brought. What we want light upon is this or that group of individuals, this or that concrete human being, this or that special institution or social arrangement. For such a logic of inquiry, the traditionally accepted logic substitutes dis cussion of the meaning of concepts and their dialectical relationship to one another. The discussion goes on in terms of the state, the individual; the nature of institutions as such, society in general.

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We need guidance in dealing with particular perplexi ties in domestic life, and are met by dissertations on the Family or by assertions of the sacredness of individual Personality. We want to know about the worth of the institution of private property as it operates under given conditions of definite time and place. We meet with the reply of Proudhon that property generally is theft, or with that of Hegel that the realization of will is the end of all institutions, and that private ownership as the expression of mastery of personality over physical nature is a necessary element in such realization. Both answers may have a certain suggestiveness in con nection with specific situations. But the conceptions are not proffered for what they may be worth in connection with special historic phenomena. They are general answers supposed to have a universal meaning that covers and dominates all particulars. Hence they do not assist inquiry. They close it. They are not instru mentalities to be employed and tested in clarifying con crete social difficulties. They are ready-made principles to be imposed upon particulars in order to determine their nature. They tell us about the state when we want to know about some state. But the implication is that what is said about the state applies to any state that we happen to wish to know about.

In transferring the issue from concrete situations to definitions and conceptual deductions, the effect, espe-

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cially of the organic theory, is to supply the apparatus for intellectual justification of the established order. Those most interested in practical social progress and the emancipation of groups from oppression have turned a cold shoulder to the organic theory. The effect, if not the intention, of German idealism as applied in social philosophy was to provide a bulwark for the mainten ance of the political status quo against the tide of radical ideas coming from revolutionary France. All though Hegel asserted in explicit form that the end of states and institutions is to further the realization of the freedom of all, his effect was to consecrate the Prus sian State and to enshrine bureaucratic absolutism. Was this apologetic tendency accidental, or did it spring from something in the logic of the notions that were employed?

Surely the latter. If we talk about the state and the individual, rather than about this or that political or ganization and this or that group of needy and suffering human beings, the tendency is to throw the glamor and prestige, the meaning and value attached to the general notion, over the concrete situation and thereby to cover up the defects of the latter and disguise the need of seri ous reforms. The meanings which are found in the gen eral notions are injected into the particulars that come under them. Quite properly so if we once grant the logic of rigid universals under which the concrete cases

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have to be subsumed in order to be understood and explained.

Again, the tendency of the organic point of view is to minimize the significance of specific conflicts. Since the individual and the state or social institution are but two sides of the same reality, since they are already reconciled in principle and conception, the conflict in any particular case can be but apparent. Since in theory the individual and the state are reciprocally necessary and helpful to one another, why pay much attention to the fact that in this state a whole group of individuals are suffering from oppressive conditions? In " reality " their interests cannot be in conflict with those of the state to which they belong; the opposition is only super ficial and casual. Capital and labor cannot " really " conflict because each is an organic necessity to the other, and both to the organized community as a whole. There cannot "really be any sex-problem because men and women are indispensable both to one another and to the state. In his day, Aristotle could easily employ the logic of general concepts superior to individuals to show that the institution of slavery was in the interests both of the state and of the slave class. Even if the in tention is not to justify the existing order the effect is to divert attention from special situations. Rational istic logic formerly made men careless in observation of the concrete in physical philosophy. It now operates to

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depress and retard observation in specific social phe nomena. The social philosopher, dwelling in the region of his concepts, "solves" problems by showing the relationship of ideas, instead of helping men solve problems in the concrete by supplying them hypotheses to be used and tested in projects of reform.

Meanwhile, of course, the concrete troubles and evils remain. They are not magically waived out of existence because in theory society is organic. The region of concrete difficulties, where the assistance of intelligent method for tentative plans for experimentation is ur gently needed, is precisely where intelligence fails to operate. In this region of the specific and concrete, men are thrown back upon the crudest empiricism, upon short-sighted opportunism and the matching of brute forces. In theory, the particulars are all neatly dis posed of; they come under their appropriate heading and category; they are labelled and go into an orderly pigeon-hole in a systematic filing cabinet, labelled political science or sociology. But in empirical fact they remain as perplexing, confused

and unorganized as they were before. So they are dealt with not by even an endeavor at scientific method but by blind rule of thumb, citation of precedents, considerations of imme diate advantage, smoothing things over, use of coercive force and the clash of personal ambitions. The world still survives; it has therefore got on somehow: so

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much cannot be denied. The method of trial and error and competition of selfishnesses has somehow wrought out many improvements. But social theory neverthe less exists as an idle luxury rather than as a guiding method of inquiry and planning. In the question of methods concerned with reconstruction of special situa tions rather than in any refinements in the general con cepts of institution, individuality, state, freedom, law, order, progress, etc., lies the true impact of philosophi cal reconstruction.

Consider the conception of the individual self. The individualistic school of England and France in the eighteenth and nineteenth centuries was empirical in in tent. It based its individualism, philosophically speak ing, upon the belief that individuals are alone real, that classes and organizations are secondary and derived. They are artificial, while individuals are natural. In what way then can individualism be said to come under the animadversions that have been passed? To say the defect was that this school overlooked those connections with other persons which are a part of the constitution of every individual is true as far as it goes; but unfortu nately it rarely goes beyond the point of just that wholesale justification of institutions which has been criticized.

The real difficulty is that the individual is regarded as something given, something already there. Conse-

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quently, he can only be something to be catered to, some thing whose pleasures are to be magnified and posses sions multiplied. When the individual is taken as some thing given already, anything that can be done to him or for him it can only be by way of external impres sions and belongings: sensations of pleasure and pain, comforts, securities. Now it is true that social arrange ments, laws, institutions are made for man, rather than that man is made for them; that they are means and agencies of human welfare and progress. But they are not means for obtaining something for individuals, not even happiness. They are means of creating indi viduals. Only in the physical sense of physical bodies that to the senses are separate is individuality an original datum. Individuality in a social and moral sense is something to be wrought out. It means initia tive, inventiveness, varied resourcefulness, assumption of responsibility in choice of belief and conduct. These are not gifts, but achievements. As achievements, they are not absolute but relative to the use that is to be made of them. And this use varies with the environ ment.

The import of this conception comes out in consider ing the fortunes of the idea

of self-interest. All mem bers of the empirical school emphasized this idea. It was the sole motive of mankind. Virtue was to be at tained by making benevolent action profitable to the

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individual; social arrangements were to be reformed so that egoism and altruistic consideration of others would be identified. Moralists of the opposite school were not backward in pointing out the evils of any theory that reduced both morals and political science to means of calculating self-interest. Consequently they threw the whole idea of interest overboard as obnoxious to morals. The effect of this reaction was to strengthen the cause of authority and political obscurantism. When the play of interest is eliminated, what remains? What concrete moving forces can be found? Those who iden tified the self with something ready-made and its in terest with acquisition of pleasure and profit took the most effective means possible to reinstate the logic of abstract conceptions of law, justice, sovereignty, free dom, etc. all of those vague general ideas that for all their seeming rigidity can be manipulated by any clever politician to cover up his designs and to make the worse seem the better cause. Interests are specific and dy namic; they are the natural terms of any concrete social thinking. But they are damned beyond recovery when they are identified with the things of a petty selfishness. They can be employed as vital terms only when the self is seen to be in process, and interest to be a name for whatever is concerned in furthering its move ment.

The same logic applies to the old dispute of whether

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reform should start with the individual or with institutions. When the self is regarded as something complete within itself, then it is readily argued that only internal moralistic changes are of importance in general reform. Institutional changes are said to be merely external. They may add conveniences and comforts to life, but they cannot effect moral improvements. The result is to throw the burden for social improvement upon free will in its most impossible form. Moreover, social and economic passivity are encouraged. Individuals are led to concentrate in moral introspection upon their own vices and virtues, and to neglect the character of the environment. Morals withdraw from active concern with detailed economic and political conditions. Let us perfect ourselves within, and in due season changes in society will come of themselves is the teaching. And while saints are engaged in introspection, burly sinners run the world. But when self-hood is perceived to be an active process it is also seen that social modifications are the only means of the creation of changed personalities. Institutions are viewed in their educative effect: with reference to the types of individuals they foster. The in terest in individual moral improvement and the social interest in objective reform of economic and political conditions are identified. And inquiry into the meaning of social arrangements gets definite point and direction. We are led to ask what the specific stimulating, foster-

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ing and nurturing power of each specific social arrange ment may be. The old-time separation between politics and morals is abolished at its root.

Consequently we cannot be satisfied with the general statement that society and the state is organic to the individual. The question is one of specific causations. Just what response does this social arrangement, political or economic, evoke, and what effect does it have upon the disposition of those who engage in it? Does it release capacity? If so, how widely? Among a few, with a corresponding depression in others, or in an extensive and equitable way? Is the capacity which is set free also directed in some coherent way, so that it becomes a power, or its manifestation spasmodic and capricious? Since responses are of an indefinite di versity of kind, these inquiries have to be detailed and specific. Are men s senses rendered more delicately sen sitive and appreciative, or are they blunted and dulled by this and that form of social organization? Are their minds trained so that the hands are more deft and cun ning? Is curiosity awakened or blunted? What is its quality: is it merely esthetic, dwelling on the forms and surfaces of things or is it also an intellectual search ing into their meaning? Such questions as these (as well as the more obvious ones about the qualities con ventionally labelled moral), become the starting-points of inquiries about every institution of the community

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when it is recognized that individuality is not originally given but is created under the influences of associated life. Like utilitarianism, the theory subjects every form of organization to continual scrutiny and criticism. But instead of leading us to ask what it does in the way of causing pains and pleasures to individuals already in existence, it inquires what is done to release specific capacities and co-ordinate them into working powers. What sort of individuals are created?

The waste of mental energy due to conducting discus sion of social affairs in terms of conceptual generalities is astonishing. Plow far would the biologist and the physician progress if when the subject of respiration is under consideration, discussion confined itself to bandy ing back and forth the concepts of organ and organism: If for example one school thought respiration could be known and understood by insisting upon the fact that it occurs in an individual body and therefore is an "individual "phenomenon, while an opposite school in sisted that it is simply one function in organic inter action with others and can be known or understood therefore only by reference to other functions taken in an equally general or wholesale way? Each proposition is equally true and equally futile. What is needed is specific inquiries into a multitude of specific struc tures and interactions. Not only does the solemn reiteration of categories of individual and organic or

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social whole not further these definite and detailed in quiries, but it checks them. It detains thought within pompous and sonorous generalities wherein controversy is as inevitable as it is incapable of solution. It is true enough that if cells were not in vital interaction with one another, they could neither conflict nor co-operate. But the fact of the existence of an "organic" social group, instead of answering any questions merely marks the fact that questions exist: Just what conflicts and what co-operations occur, and what are their specific causes and consequences? But because of the persist ence within social philosophy of the order of ideas that has been expelled from natural philosophy, even sociolo gists take conflict or co-operation as general categories upon which to base their science, and condescend to em pirical facts only for illustrations. As a rule, their chief "problem" is a purely dialectical one, covered up by a thick quilt of empirical anthropological and his torical citations: How do individuals unite to form so ciety? How are individuals socially controlled? And the problem is justly called dialectical because it springs from antecedent conceptions of " individual " and " social."

Just as "individual" is not one thing, but is a blanket term for the immense variety of specific reactions, habits, dispositions and powers of human nature that are evoked, and confirmed under the influences of

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associated life, so with the term "social." Society is one word, but infinitely many things. It covers all the ways in which by associating together men share their experiences, and build up common interests and aims; street gangs, schools for burglary, clans, social cliques, trades unions, joint stock corporations, villages and international alliances. The new method takes effect in substituting inquiry into these specific, changing and relative facts (relative to problems and purposes, not metaphysically relative) for solemn manipulation of general notions.

Strangely enough, the current conception of the state is a case in point. For one direct influence of the classic order of fixed species arranged in hierarchical order is the attempt of German political philosophy in the nineteenth century to enumerate a definite number of institutions, each having its own essential and im mutable meaning; to arrange them in an order of " evo lution " which corresponds with the dignity and rank of the respective meanings. The National State was placed at the top as the consummation and culmination, and also the basis of all other institutions.

Hegel is a striking example of this industry, but he is far from the only one. Many who have bitterly quar relled with him, have only differed as to the details of the "evolution" or as to the particular meaning to be attributed as essential Begriff to some one of the

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enumerated institutions. The quarrel has been bitter only because the underlying premises were the same. Particularly have many schools of thought, varying

even more widely in respect to method and conclusion, agreed upon the final consummating position of the state. They may not go as far as Hegel in making the sole meaning of history to be the evolution of National Territorial States, each of which embodies more than the prior form of the essential meaning or conception of the State and consequently displaces it, until we arrive at that triumph of historical evolution, the Prussian State. But they do not question the unique and su preme position of the State in the social hierarchy. Indeed that conception has hardened into unquestion able dogma under the title of sovereignty.

There can be no doubt of the tremendously important role played by the modern territorial national state. The formation of these states has been the centre of modern political history. France, Great Britain, Spain were the first peoples to attain nationalistic organization, but in the nineteenth century their example was fol lowed by Japan, Germany and Italy, to say nothing of a large number of smaller states, Greece, Servia, Bul garia, etc. As everybody knows, one of the most im portant phases of the recent world war was the struggle to complete the nationalistic movement, resulting in the erection of Bohemia, Poland, etc., into independent

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states, and the accession of Armenia, Palestine, etc., to the rank of candidates.

The struggle for the supremacy of the State over other forms of organization was directed against the power of minor districts, provinces, principalities, against the dispersion of power among feudal lords as well as, in some countries, against the pretensions of an ecclesiastic potentate. The "State represents the conspicuous culmination of the great movement of social integration and consolidation taking place in the last few centuries, tremendously accelerated by the concentrating and combining forces of steam ad electricity. Naturally, inevitably, the students of political science have been preoccupied with this great historic phe nomenon, and their intellectual activities have been directed to its systematic formulation. Because the contemporary progressive movement was to establish the unified state against the inertia of minor social units and against the ambitions of rivals for power, political theory developed the dogma of the sovereignty of the national state, internally and externally.

As the work of integration and consolidation reaches its climax, the question arises, however, whether the na tional state, once it is firmly established and no longer struggling against strong foes, is not just an instru mentality for promoting and protecting other and more voluntary forms of association, rather than a supreme

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end in itself. Two actual phenomena may be pointed to in support of an affirmative answer. Along with the development of the larger, more inclusive and more uni fied organization of the state has gone the emancipation of individuals

from restrictions and servitudes previ ously imposed by custom and class status. But the in dividuals freed from external and coercive bonds have not remained isolated. Social molecules have at once recombined in new associations and organizations. Compul sory associations have been replaced by voluntary ones; rigid organizations by those more amenable to human choice and purposes more directly changeable at will. What upon one side looks like a movement toward in dividualism, turns out to be really a movement toward multiplying all kinds and varieties of associations: Political parties, industrial corporations, scientific and artistic organizations, trade unions, churches, schools, clubs and societies without number, for the cultivation of every conceivable interest that men have in common. As they develop in number and importance, the state tends to become more and more a regulator and adjuster among them; defining the limits of their actions, pre venting and settling conflicts.

Its "supremacy approximates that of the conductor of an orchestra, who makes no music himself but who harmonizes the activities of those who in producing it are doing the thing intrinsically worth while. The

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state remains highly important but its importance consists more and more in its power to foster and co ordinate the activities of voluntary groupings. Only nominally is it in any modern community the end for the sake of which all the other societies and organizations exist. Groupings for promoting the diversity of goods that men share have become the real social units. They occupy the place which traditional theory has claimed either for mere isolated individuals or for the supreme and single political organization. Pluralism is well ordained in present political practice and demands a modification of hierarchical and monistic theory. Every combination of human forces that adds its own con tribution of value to life has for that reason its own unique and ultimate worth. It cannot be degraded into a means to glorify the State. One reason for the increased demoralization of war is that it forces the State into an abnormally supreme position.

The other concrete fact is the opposition between the claim of independent sovereignty in behalf of the terri torial national state and the growth of international and what have well been called trans-national interests. The weal and woe of any modern state is bound up with that of others. Weakness, disorder, false principles on the part of any state are not confined within its boun daries. They spread and infect other states. The same is true of economic, artistic and scientific advances.

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Moreover the voluntary associations just spoken of do not coincide with political boundaries. Associations of mathematicians, chemists, astronomers; business corpo rations, labor organizations, churches are trans-national because the interests they represent are worldwide. In such ways as these, internationalism is not an aspiration but a fact, not a sentimental ideal but a force. Yet these

interests are cut across and thrown out of gear by the traditional doctrine of exclusive national sover eighty. It is the vogue of this doctrine, or dogma, that presents the strongest barrier to the effective for mation of an international mind which alone agrees with the moving forces of present-day labor, commerce, science, art and religion.

Society, as was said, is many associations not a single organization. Society means association; coming to gether in joint intercourse and action for the better realization of any form of experience which is aug mented and confirmed by being shared. Hence there are as many associations as there are goods which are enhanced by being mutually communicated and partici pated in. And these are literally indefinite in number. Indeed, capacity to endure publicity and communication is the test by which it is decided whether a pretended good is genuine or spurious. Moralists have always in sisted upon the fact that good is universal, objective, not just private, particular. But too often, like Plato,

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they have been content with a metaphysical universality or, like Kant, with a logical universality. Communi cation, sharing, joint participation are the only actual ways of universalizing the moral law and end. We in sisted at the last hour upon the unique character of every intrinsic good. But the counterpart of this proposition is that the situation in which a good is consciously realized is not one of transient sensations or private appetites but one of sharing and communi cation public, social. Even the hermit communes with gods or spirits; even misery loves company; and the most extreme selfishness includes a band of followers or some partner to share in the attained good. Universalization means socialization, the extension of the area and range of those who share in a good.

The increasing acknowledgment that goods exist and endure only through being communicated and that asso ciation is the means of conjoint sharing lies back of the modern sense of humanity and democracy. It is the saving salt in altruism and philanthropy, which with out this factor degenerate into moral condescension and moral interference, taking the form of trying to regu late the affairs of others under the guise of doing them good or of conferring upon them some right as if it were a gift of charity. It follows that organization is never an end in itself. It is a means of promoting asso-

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elation, of multiplying effective points of contact be tween persons, directing their intercourse into the modes of greatest fruitfulness.

The tendency to treat organization as an end in itself is responsible for all the exaggerated theories in which individuals are subordinated to some institution to which is given the noble name of society. Society is the process of associating in such ways that experiences, ideas, emotions, values are transmitted and made common. To this active process, both the individual and the institutionally organized may truly be said to be subordinate. The individual is subordinate

because except in and through communication of experience from and to others, he remains dumb, merely sentient, a brute animal. Only in association with fellows does he become a conscious centre of experience. Organization, which is what traditional theory has generally meant by the term Society or State, is also subordinate because it becomes static, rigid, institutionalized when ever it is not employed to facilitate and enrich the contacts of human beings with one another.

The long-time controversy between rights and duties, law and freedom is another version of the strife between the Individual and Society as fixed concepts. Freedom for an individual means growth, ready change when modification is required.

It signifies an active process, that of release of.

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capacity from whatever hems it in. But since society can develop only as new resources are put at its dis posal, it is absurd to suppose that freedom has positive significance for individuality but negative meaning for social interests. Society is strong, forceful, stable against accident only when all its members can function to the limit of their capacity. Such functioning cannot be achieved without allowing a leeway of experimenta tion beyond the limits of established and sanctioned custom. A certain amount of overt confusion and ir regularity is likely to accompany the granting of the margin of liberty without which capacity cannot find itself. But socially as well as scientifically the great thing is not to avoid mistakes but to have them take place under conditions such that they can be utilized to increase intelligence in the future.

If British liberal social philosophy tended, true to the spirit of its atomistic empiricism, to make freedom and the exercise of rights ends in themselves, the remedy is not to be found in recourse to a philosophy of fixed obligations and authoritative law such as characterized German political thinking. The latter, as events have demonstrated; is dangerous because of its implicit menace to the free self-determination of other social groups. But it is also weak internally when put to the final test. In its hostility to the free experimentation and power of choice of the individual in determining

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social affairs, it limits the capacity of many or most individuals to share effectively in social operations, and thereby deprives society of the full contribution of all its members. The best guarantee of collective efficiency and power is liberation and use of the diversity of indi vidual capacities in initiative, planning, foresight, vigor and endurance. Personality must be educated, and personality cannot be educated by confining its operations to technical and specialized things, or to the less important relationships of life. Full education comes only when there is a responsible share on the part of each person, in proportion to capacity, in shaping the aims and policies of the social groups to which he belongs. This fact fixes the significance of democracy. It cannot be conceived as a sectarian

or racial thing nor as a consecration of some form of government which has already attained constitutional sanction. It is but a name for the fact that human nature is developed only when its elements take part in directing things which are common, things for the sake of which men and women form groups families, industrial companies, governments, churches, scientific associations and so on. The principle holds as much of one form of association, say in industry and commerce, as it does in government. The identification of democracy with political democ racy which is responsible for most of its failures is, how ever, based upon the traditional ideas which make the

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individual and the state ready-made entities in them selves.

As the new ideas find adequate expression in social life, they will be absorbed into a moral background, and will the ideas and beliefs themselves be deepened and be unconsciously transmitted and sustained. They will color the imagination and temper the desires and af fections. They will not form a set of ideas to be ex pounded, reasoned out and argumentatively supported, but will be a spontaneous way of envisaging life. Then they will take on religious value. The religious spirit will be revivified because it will be in harmony with men s unquestioned scientific beliefs and their ordinary day- by-day social activities. It will not be obliged to lead a timid, half-concealed and half-apologetic life because tied to scientific ideas and social creeds that are con tinuously eaten into and broken down. But especially will the ideas and beliefs themselves be deepened and intensified because spontaneously fed by emotion and translated into imaginative vision and fine art, while they are now maintained by more or less conscious ef fort, by deliberate reflection, by taking thought. They are technical and abstract just because they are not as yet carried as matter of course by imagination and feelings.

We began by pointing out that European philosophy arose when intellectual methods and scientific results

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moved away from social traditions which had consoli dated and embodied the fruits of spontaneous desire and fancy. It was pointed out that philosophy had ever since had the problem of adjusting the dry, thin and meagre scientific standpoint with the obstinately per sisting body of warm and abounding imaginative beliefs. Conceptions of possibility, progress, free movement and infinitely diversified opportunity have been suggested by modern science. But until they have displaced from imagination the heritage of the immutable and the once- for-all ordered and systematized, the ideas of mech anism and matter will lie like a dead weight upon the emotions, paralyzing religion and distorting art. When the liberation of capacity no longer seems a menace to organization and established institutions, something that cannot be avoided practically and yet something that is a threat to conservation of the most precious values of the past, when the liberating of human capacity operates as a socially creative force, art will not be

a luxury, a stranger to the daily occupations of making a living. Making a living economically speaking, will be at one with making a life that is worth living. And when the emotional force, the mystic force one might say, of communication, of the miracle of shared life and shared experience is spontaneously felt, the hard ness and crudeness of contemporary life will be bathed in the light that never was on land or sea.

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Poetry, art, religion are precious things. They can not be maintained by lingering in the past and futilely wishing to restore what the movement of events in science, industry and politics has destroyed. They are an out-flowering of thought and desires that uncon sciously converge into a disposition of imagination as a result of thousands and thousands of daily episodes and contact. They cannot be willed into existence or coerced into being. The wind of the spirit bloweth where it listeth and the kingdom of God in such things does not come with observation. But while it is im possible to retain and recover by deliberate volition old sources of religion and art that have been discredited, it is possible to expedite the development of the vital sources of a religion and art that are yet to be. Not indeed by action directly aimed at their production, but by substituting faith in the active tendencies of the day for dread and dislike of them, and by the courage of intelligence to follow whither social and scientific changes direct us. We are weak today in ideal matters because intelligence is divorced from aspiration. The bare force of circumstance compels us onwards in the daily detail of our beliefs and acts, but our deeper thoughts and desires turn backwards. When philoso phy shall have co-operated with the course of events and made clear and coherent the meaning of the daily detail, science and emotion will interpenetrate, practice and

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imagination will embrace. Poetry and religious feeling will be the unforced flowers of life. To further this articulation and revelation of the meanings of the cur rent course of events is the task and problem of philoso phy in days of transition.

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