area roughly the size of France), the burning "is coupled with activities that compensate for its potentially destructive effects."<sup>24</sup> The result is actual enhancement of fertility (necessary given the peculiar conditions of the rain forest) and the <u>provision of micro-ecosystems for rapid speciation</u>.

1 that the earth not be treated as private property, or, what comes to the same thing, that the labor which undertakes it is freely of opportunities for allopatric speciation, and who develop the consciousness learned to take an ecocentric form. This way of under such "original" conditions that human intelligence and differentiated, or as we will be calling it, freely associated. It is ecosystem is integral and differentiated rather than disintegrated gies with which it interacts, so that the combined human-natural existentially alive culture whose lessons are ours to learn.<sup>26</sup> ecologically creative activity is reserved, however, for those whose lectively managed communities that provide an immense range individual plant species one by one,25 who live in the small, colbeing creates people who differentiate nature and know the and split. It needs be realized that this kind of behavior requires human ecology is closely configured to the varying natural ecolobe a part of nature that catalyses nature's own exuberance. This Far from being a congenital enemy of nature, then, humans can Amazon basin to bring forth new and richly varying life-forms Here humanity writes with its labor on the surface of the

# 6 | Capital and the domination of nature

The pathology of a cancer upon nature

What is the root of capital's wanton ecodestructivity? One way of seeing this is in terms of an economy geared to run on the basis of unceasing accumulation. Thus, each unit of capital must, as the saying goes, "grow or die"; and each capitalist must constantly search to expand markets and profits or lose his position in the hierarchy. Under such a regime the economic dimension consumes all else, nature is continually devalued in the search for profit along an expanding frontier, and the ecological crisis follows inevitably.

This reasoning is, I believe, valid, and necessary for grasping how capital becomes the efficient cause of the crisis. But it is incomplete, and fails to clear up the mystery of what capital is, and, consequently, what is to be done about it. For example, it is a commonly held opinion that capitalism is an innate and therefore inevitable outcome for the human species. If this is the case, then the necessary path of human evolution travels from the Olduvai Gorge to the New York stock exchange, and to think of a world beyond capital is mere baying at the moon.

It takes only a brief reflection to demolish the received understanding. Capital is self-evidently a possible outcome given the potentials of human nature, but despite all the efforts of ideologues to argue for its natural inevitability, no more than this. For if capital were natural, why has it only occupied the last 500 years of a record that goes back for hundreds of thousands? More to the point, why did it have to be imposed through violence wherever it set down its rule? And most importantly, why does it have to be continually maintained through violence, and continuously reimposed on each generation through an enormous apparatus of indoctrination? Why not just let children be the way they want

to be and trust they will turn into capitalists and workers for capitalists - the way we let baby chicks be, knowing that they will reliably grow into chickens if provided with food, water and shelter? Those who believe that capital is innate should also be willing to do without police, or the industries of culture, and if they are not, then their arguments are hypocritical.

This, though, only sharpens the questions of what capital is, why the path to it was chosen, and why people would submit to an economy and think so much of wealth in the first place. These are highly practical concerns. It is widely recognized, for example, that habits of consumption in the industrial societies will have to be drastically altered if a sustainable world is to be achieved. This means, however, that the very pattern of human needs will have to be changed, which means in turn that the basic way we inhabit nature will have to be changed. We know that capital forcibly indoctrinates people to resist these changes; but it is a poor and superficial analysis that would stop here and say nothing further about how this works and how it came about. Capital's efficient causation of the ecological crisis establishes it as the enemy of nature. But the roots of the enmity still await exploration.

sion only, that outlines the subjective shape of an ecodestructive would be complete without such a dimension. But it is a dimenaround the human sun. No understanding of the ecological crisis sees nature, in all its intricate glory, existing like so many planets relation to nature, notably the "anthropocentric" delusion that certain central and controlling ideas that define a pathological desirable, for example, to identify, as do the Deep Ecologists, has any real explanatory value. It is perfectly possible and quite what is the core of our estrangement from nature, but little of it with no clue as to how it arose - nor, therefore, with how it can complex without connection to the objective side of things, and and vague abstraction. relationships with the world are spelled out, is just an empty the internal circuitry of a phenomenon, and until its origins and be overcome. A mental attitude explains no more than some of A great deal of ink has been expended in trying to decide just

> of capital accumulation, and have been so since the beginnings of and politically opportunistic, since it is patently the case that But to stop at this point is not only incomplete, but also evasive obvious that it is through such means nature is being laid waste. "industrialization" as the active elements in the crisis, since it is ways of checking the ecological crisis but will not be used because world teems with brilliant innovations that deserve application as social organization, and cannot be conceived apart from it. The of technology, can exist in itself; industry, and all the qualities the modern world.1 No tool, nor any large-scale organization the industry in question, and the tools it uses, are instruments science, in the service of which interests, and shaped by which reduced "scientifically" to a mere object for dissection. Well, yes, responsible for our estrangement from nature, which is said to be be said for "science," also routinely hauled out as the culprit they run against the exigencies of accumulation. The same can internal to it, are products and expressions of a given mode of the origins of domination. role in the domination of nature. But estrangement of this kind social forces? No doubt, an estranged science plays a tremendous this does happen, but the questions must again be posed: which must itself be explained, and in the explaining, we push back Similarly, many authors are ready to talk of "technology," or

Science, technology, and industry are today all subsumed into the capitalist system. Yet capitalism as we know it did not spring full-grown into the world. It combined many precursors, which took root in peculiar cultural soils. The economies that resulted were not the bearers of any particular essence, but reflected, like the personalities of individuals, specific integrations, some of which have been more deadly to ecologies than others. For example, our variety of ecodestructive capitalism was a peculiarly European concoction, and, as such, deeply influenced by powerful and by no means ecologically friendly world-view. The attitude of Christianity toward nature long predates capitalism, and extends from its Judaic roots, as in the passage in Genesis

(1-27) where Yahweh gives Adam "dominion over the fish of the sea, and over the birds of the air, and over the cattle, and over all the earth, and over every creeping thing that creeps upon the earth" – all of which is not only compatible with but mandated by the belief that "God created man in his own image, in the image of God he created him" (28).

No other world religion, and certainly no tribal religion, incorporates the domination of nature so directly into its *Logos*. It bears emphasis that this attitude was strongly contested within Christianity – indeed, some of the greatest saints, Francis and Teresa of Avila being the most famous, are defined by rebellion against it, just as the Church itself would strive to contain the capitalist monster once it arose from European soil. Religions are dialectical; they express domination as well as the protest against domination, and even the release from domination. Nevertheless, there is a definite balance of forces at play; and for Christianity, the preponderance of these forces was expressed in what would have to be called an anti-ecocentric direction. This is best shown by the striking hatred of the body that marks the history of Christendom, along with its obsessive preoccupation with feelings of guilt.<sup>3</sup>

Many societies could have led the way into the capitalist era, including China and India, which were more highly developed by far than Europe in the fifteenth century, while being more at home with nature. It is impossible to say whether their accession to capitalism would have resulted in an ecologically friendlier outcome. But the luck was with Europe, which had its shipping lanes along the trade winds that led to the "undiscovered" Americas. And so the civilization whose previous development had primed it for the domination of nature became capitalist in the sense that we recognize the beast, especially after emergence into harsh and life-denying Calvinism.<sup>4</sup>

Yet this relationship does not entitle us to declare Christianity the villain of the piece, either, since the crisis is quite capable of being reproduced without it; indeed, in its current phase, virtually all traces of the religious origins of capital have been effaced. In

the final analysis, a religion is itself the ambivalent product of a certain kind of society. Thus the evocation of Christendom again raises the question of origins and pushes back the quest until it disappears into the mists of human beginnings. Here, however, we reach a ground that can enable a reasonably coherent – if highly attenuated and schematic – image of how the domination of nature arose, and what led it to mutate into capitalism. It goes without saying that what follows is adapted to the purposes of this work and does not represent a full rendition of the story and the many questions attached to it. The reader must decide for him- or herself whether the light it casts will compensate for the brevity of treatment.

## The gendered bifurcation of nature

The first map of the human species was drawn according to "him" and "her," in that produced configuration of sexuality known as gender. Gender is the original dividing line within humanity; and the constructions of humankind, whether within humanity or between humanity and nature, are inscribed by it. There is nothing more "material" (including the common origin of the words, material and mother). Sex is of the earth, and the primary dividing lines between genders were expressed in earth-transforming labor. Out of this matrix (there is that root again) arose the beginnings of domination; and all future dominations, including that effected by capital, are shadowed by that of male over female.

This is not an exercise in politically correct male-bashing. However, a candid look at the history of domination would be radically incomplete unless the role played in it by the construction of the masculine gender were acknowledged. The actual origins must remain shrouded in an impenetrably distant past. Nevertheless, everything that is known (though all-too-often ideologically denied) about the human species compels the reconstruction of the following, which we state baldly and according to the ideas already developed about human nature, so as to bring out the essential points: <sup>5</sup>

In the original, hunter-gatherer, phase of society, the first a great range of human-natural transformations, including encompasses the great span of human prehistory, and entails souls, the manifestations of Trickster, and so forth. The phase the "dream-time" of Australian first peoples, the wandering of struction of the quality of self-experience derived from it: thus cultural remnants we have of these peoples, and by the reconrelations, and self-determination. This can still be seen in the genuine differentiation, with mutual recognition, fluid social needless to say, with their work of reproduction. Note that this speaking, with males hunting and females gathering - along, differentiation of labor occurs according to sex, generally the domestication of animals and the origins of agriculture. labor produces the gender itself, and that its origins were a for something worse. its often being carried out by roving bands, prepared a way Moreover, the death-dealing tools of the hunt, and the fact of forth males as the takers of life and females as life's giver. Though without domination, the original division of labor set

Here a sporadically occurring event may be postulated of composed, however, of subjective as well as external forces: the group, or band of hunters; and its stimulus would vary, being not as individual hunter, but as a subset of the collective: a instance can be brought forward. Its agent was masculine, whose existence we are certain even though no concrete first which compelled a search for new resources; while the former productive labor from other humans, i.e. taking not just the of food, skins, etc., from animals, but the expropriation of hunt to a raid, with the object being now not the obtaining any case, the event in question was a transformation of the was a function of the psychodynamics of the male group. In latter being, say, a threat to survival, like disease or drought, pose a threefold violence: killing or driving off the males from of one's own kind.7 This necessarily involved the seizure of women and children from a neighboring collective. We suplife of another creature, but the life-giving and building power

the attacked collective, denying the self-determination of the seized women and children, and the forcible sexual violation of the captives.

This act was a profound mutation in human being. It created a whole new conjuncture, which in time became a structure glorifying this - had to become institutionalized in order to And fourth, violence - physical force along with the culture sharply opposed identities constituted by master and slave. of history. Third the genders are further produced by this, with whole world has been run by male bands since the beginnings secret societies like Yale's Skull and Bones (in which George with any number of intermediate and modern variations, e.g. the potentials for enduring social divisions are grounded in duced, always in the direction of male over female. Second, hold onto what had been stolen. W. Bush participated). Indeed, there is a sense in which the boards of directors, the Joint Chiefs of Staff, the Politburo, the Vatican Curia, the NFL Superbowl champions, corporate hunting band, to the warrior band, and to the ruling class, this, again male over female; these are to extend from the first, the possibilities of exploiting another's labor are intro-

had dramatic expansive possibilities. Social violence entered the lists of the dangers to which societies are exposed, along with those of natural cause. The violence invited retaliation and/or defense; and it came to define ever-larger social aggregates with expansive dynamics, as each particular group underwent a compulsion to achieve power relative to others. Internally, the drive toward power caused struggles for leadership and social control. The result, after innumerable twists and turns we are unable to detail here, was the emergence of the Big Man, the Chieftain, the King, the Shiekh, the Emperor, the Pope, the Führer, the Generalissimo, and the CEO.

We would emphasize again that these principles would be variously applied across a vast range of situations. There is no

to encompass the rest of humanity. But what has to be underneed, either, to imagine a single such event radiating outward scored is the absolute dynamism of this event, and the fact that male violence arose codified property relations, as a way of holdanything from the realm of genetics. Out of the nexus of original it amounted to a real mutation of human society as potent as and wealthy societies, the control over personal consumption is attaches to the self, like clothing or jewellery (though in stratified Big Man must. Property in this sense is not primarily that which assuring ownership and control over children - a never-ending originates civilization; and this originates in the forcible control producing life - and the means for life. The control over labor quite significant); but rather the power of producing - and redilemma for the man who sows his seed and moves on, as the of patriarchy emerged, as a system of apportioning women and legitimacy follow that of violent seizure. Similarly, the institution ing onto what had been taken: thus the <u>notions of property</u> and

The control over labour enables civilization to emerge and shapes it,8 and this means that a basic estrangement, or alienation, is introduced at the foundations of society - alienation being the reflex, at the level of human being, of ecosystemic splitting. The dominant male identity is formed in this cauldron. From the beginning, its reference point is the other males in the hunting/warrior group, with whom it associates and identifies; coordinatively, it comes to shun and deny recognition to the subjected female. A purified male-Ego comes to define the dominant form taken by the self, which enters into the exfoliating system of splits constituting the emergent civilization. Subjectively, this alienation becomes inscribed as a progressive separation from the body, and from what the body signifies, namely, nature.9

A polarization between the human and the natural worlds ensues, with masculinity occupying the human (= intellectual, far-seeing, spiritual, powerful, and active) pole, and femininity the pole of nature (= instinctual, limited and body-based, inconstant, weak, and passive). The *gendered bifurcation of nature* has

2 6 1 10 100

been set going, to configure the relations between genders, and between humanity and nature, all the way to the ecological crisis once it takes capitalist form.

The path leading from the first violent expropriation of labor to the heights of capital passes through the solidification of property and the appearance of class as a defining element of society. Class institutionalizes property and emerges pari passu with the introduction of splitting into human ecosystems. Though violent expropriation is a necessary step in domination, it is insufficient in itself as a way of producing and reproducing life. Secondary forms of recognition become essential to hold the social ecosystem together and harness its forces. Class is one such, operating in the sphere of production as patriarchy does in that of reproduction. Class codifies the formal arrangements for the ownership of productive property and the control over labor. The rule of law is layered over that of violence, and internalizes violence. Labor has become unfree.

cal body. Class relationships never appear in pure, unadulterated expresses human nature, class is a violation of human nature, however, given over to conflict because of the institutionalization society has a controlling agency to tell its story to itself - a story, and the cyclical, differentiated time of original society is transand what we call civilization. With this, history as such begins, nexus that comprises the decisive leap between archaic society which emerges and takes the form of the state. It is the class-state and with it, of nature itself, even if it is not grounded in the physihuman being. Since the free exercise of transformative power their judges and courts; and they impose violence and conquest cians; and they impose universalizing religions like Christianity of class. States impose writing, through their cadres of techniformed according to the hierarchical ground plan of class. Now They occur, rather, embedded in a further institutional turn, form, however, as the splits they impose would tear society apart. like gender, but in the formalization of the productive core of through their cadres of priests;10 and they impose laws through Class is not grounded in physical difference or biological plan

with their armies, and also the legitimation of violence and conquest. Everything thereafter is marked with contradiction, stemming from the state's original dilemma, that it stands over the whole of society, but is for society's ruling classes.

States carry forth all those notions we call "progress." They also, however, implement the domination of nature, in all the forms taken by nature – women certainly; but also, the other peoples conquered by those states which achieve imperial status. As enslaved and dominated peoples become incorporated into the domain, they acquire the status of Other – barbarians, savages, human animals, and, eventually (with the growth under capital of science), ethnicities and races – all of which categories cluster with the female at the "nature" end of the bifurcation within humanity.

would appear as at least a trace in all further dominations. If we sis, species. Here we must ask, priority in relation to what? If we race, ethnic and national exclusion, and, with the ecological cribe called "dominative splitting" - chiefly, those of gender, class, namely, as to the priority of different categories of what might to a Jew living in Germany in the 1930s, anti-semitism would to whichever of the categories was put forward by immediate intend, prior in existential significance, then that would apply ing how history always adds to the past rather than replacing it, intend, prior in time, then gender holds the laurel - and, considerwhose transformation is practically more urgent, that depends have been searingly prior, just as anti-Arab racism would be to a historical forces as these are lived by masses of people: thus As to which is politically prior, in the sense of being that which aggravated sexism would be to women living in, say, Afghanistan. Palestinian living under Israeli domination today, or a ruthless, overcoming the crisis. the last section of this work, when we deal with the politics of forces active in a concrete situation; we shall address this in upon the preceding, but also upon the deployment of all the This discussion may help clarify a vexing issue on the left,

If, however, we ask the question of efficacy, that is, which

was made over gender. Historically, the difference arises because our species' time on earth, during all of which considerable fuss tion by gender. But a world without class is eminently imaginable cannot, in other words, imagine a human world without gender "species-ism"). This is, first of all, because class is an essentially talk of "classism" to go along with "sexism" and "racism," and is the state that shapes and organizes the splits that appear in the state as an instrument of enforcement and control, and it be given to class, for the plain reason that class relations entail split sets the others into motion, then priority would have to oppressed society implies the activities of a class-defending racism so long as class society stands, inasmuch as a racially apparatus whose conquests and regulations create races and distinctions - although we can imagine a world without dominaman-made category, without root in even a mystified biology. We distinct from other forms of exclusion (hence we should not human ecosystems. Thus class is both logically and historically woman's labor. class society, with its state, demands the super-exploitation of state.11 Nor can gender inequality be legislated away so long as "class" signifies one side of a larger figure that includes a state shape gender relations. Thus there will be no true resolution of - indeed, such was the human world for the great majority of

Class society continually generates gender, racial, ethnic oppressions, and the like, which take on a life of their own, as well as profoundly affecting the concrete relations of class itself. It follows that class politics must be fought out in terms of all the active forms of social splitting. It is the management of these divisions that keeps state society functional. Thus though each person in a class society is reduced from what s/he can become, the varied reductions can be combined into the great stratified regimes of history – this one becoming a fierce warrior, that one a routine-loving clerk, another a submissive seamstress, and so on, until we reach today's personifications of capital and captains of industry. Yet no matter how functional a class society, the profundity of its ecological violence ensures a basic

antagonism which drives history onward. History is the history of class society – because no matter how modified, so powerful a schism is bound to work itself through to the surface, provoke resistance (i.e. "class struggle"), and lead to the succession of powers. The relation of class can be mystified without end – only consider the extent to which religion exists for just this purpose, or watch a show glorifying the police on television – yet so long as we have any respect for human nature, we must recognize that so fundamental an antagonism as would steal the vital force of one person for the enrichment of another cannot be conjured away.

apart. It is the state's province to deal with class contradiction violent values), to codify property, to set forth laws to punish and use them in conquest (thereby reinforcing patriarchal and as it works itself out in numberless ways - to build its armies that the ruling class gets its way without causing society to fly upon maintaining the class structure. All of this is to play a basic in it, we have to attend to the state and its ultimate dependence that to give coherence to this narrative and make a difference of which the state holds society together, from which it follows domination of nature are in fact woven into the fabric by means nature into myths of wholeness and integrity. All aspects of the as a source of legitimation, and thus incorporates the history of nation-state, it employs the attachment of a people to its land nature. Furthermore, inasmuch as the modern state is also a maintains the societal ground for the gendered bifurcation of The state institutionalizes patriarchy as well as class, and hence and to channel the flux of history in the direction of the elites education - in sum, to regulate and enforce the class structure justify God's ways to mere man, or to institutionalize science and young, or the marriage of the sexes, or establish the religions that laws, or to certify what is proper and right in the education of the to institutionalize police, courts and prisons to back up those contracts, and debts between individuals who play by the rules, those who would transgress property relations, and to regulate The state is what steps forward to manage this conflict so

role in the unfolding of contemporary ecological struggles, as we discuss in the next section.

#### The rise of capital

Capitalism only triumphed when it becomes identified with the state, when it is the state.  $^{\rm 12}$ 

Class relationships separate people from their vital power. Capital goes further: it separates our vital power from itself, and imposes a double estrangement. The arena within which this occurs is the labor market, and the instrument of its occurrence is that most strange and interesting concoction of the human mind: money.

As the saying goes, money makes the world go round. But there are three different aspects to money, which ascend in mystery, though all are bound together in reality. The first, simplest, and most rational as well as the most ancient, would be money as an instrument of exchange and trade. We say, rational, because without some independent element that enables goods to be compared to each other, economic activity, indeed, society itself, would remain paleolithic. At this level, the money-function allows raw materials, instruments of production and finished goods to be brought together from varied sources, making a wider human intercourse possible.

The secondway we know money is as a commodity, something that can be acquired, traded, and, crucially, accumulated. There is, from this angle, a history of money that passes from common concretions like shells or exchangeable possessions like cattle, <sup>14</sup> to metallic coin, to the abstraction into paper notes of one kind and another, onwards into the ever-increasing dematerialization taken by the money-form until today, in the digital age, it covers the globalized world with a shower of bytes. To explore these aspects would distract us from the task at hand. However, one of them, namely, the propensity for dematerialization, is of absolute importance, as it leads to the third and most puzzling, as well as most relevant, aspect of money.

What installs our system as the enemy of nature is the property of money as the repository of value. The notion of value, so difficult to grasp, yet so compelling for civilization, provides a window onto the pathology of power. Where money is concerned, value is an abstraction of the exchange function: thus from the particulars of exchanging one item for another, we arrive at "exchangeability-in-general." But it is also the convergence of exchangeability with desire. Value is the projection of human want into nature – including human nature and the qualities of the self. It is the setting up of an alternative, monetized world, with no fixed connection to the original world. Thus value does not exist in nature, though the creature who devises it does. As Georg Simmel put it in his magisterial work on money:

The series of natural phenomena could be described in their entirety without mentioning the value of things; and our scale of valuation remains meaningful, whether or not any of its objects appear frequently or at all in reality ... Valuation as a real psychological occurrence is part of the natural world; but what we mean by valuation, its conceptual meaning, is something independent of this world; is not part of it, but is rather the whole world viewed from a particular vantage point. <sup>16</sup>

There are distinct universes of value, by no means all economic. The infant values the breast, the child her dolls, the Buddha, contemplation, the ecocentrically minded, the biosphere, the fetishist, a stiletto heel, and so forth. Nor are all abstractions evil, to say the least, else we would regard mathematics as a crime, or the abstracting of Marx when he developed his notions of value in order to emancipate labor. Abstractions – including quantification – need not be pathological so long as there remains a differentiated path back to the sensuous-concrete, such as we see in fruitful science; or when, as in the case of "pure" mathematics, abstractions are bracketed away from the external world. That is, the mathematician does not confuse his abstractions with reality – unless he is psychotic, and even if he is psychotic, he lacks the means to bring reality under the sway of his abstraction. Not so

for capital, which converts the sensuous world into abstraction for the purpose of value. Since the sensuous world remains in touch with the plenum of nature, this conversion can become a splitting of devastating proportion and leads to a new order of domination.

Whatever is produced tends to serve some purpose, even if this be frivolous, destructive, or fantastic. Thus a kind of value adheres to all made objects according to the needs these meet, or, to choose another word, their utility. For produced things, use-value represents the conjugation of labor and nature, and occupies the boundary between human nature and nature at large. And because human nature entails participation of the imagination, there is no use-value that does not include some subjective and imagined dimension – whether this be the coziness of a good blanket, the taste of wine, the anticipation of the potential life lying embedded in a seed, and so forth.

Use-value is essentially concrete; it is a qualitative function, composed of sensuous and intellectual distinctions with other aspects of the world, including other use-values. Being qualitative, it retains the essential feature of differentiation, that distinct elements can recognize one another and form links and associations. Use-values can be deformed when they come to express alienated ways of being – what else can be said, after all, about use-values such as are expressed by a TV game show, or any of the commodities that reflect false needs – sports utility vehicles, lite beer, fashion magazines, hand guns, and so on. But because they are also concrete, they can be restored, as a "used" article can be mended and made to shine. Indeed, the mending of the ecological crisis requires precisely such a restoration.

Not all use-values are attached to commodities. However, all commodities have a use-value, since no one would purchase anything or exchange it for something else unless it has some utility. <sup>17</sup> But they also have another kind of value, arising from the fact of exchangeability that attaches to all commodities: exchange-value. Here, in sharp contrast to use-values, the sensuous and concrete are eliminated by definition and a priori. All that is

retained as the mark of exchangeability is quantity: this item, *x*, is exchangable for so many of *y*, which in turn is exchangeable for so many of *z*, and so forth, with no intrinsic end. Any concrete quality will break the chain; only number suffices, and money becomes the embodiment of that number. Hence money is fundamentally quantity, which becomes its use-value. Simmel again: "The quantity of money is its quality. Since money is nothing but the indifferent means for concrete and infinitely varied purposes, its quantity is the only important determination so far as we are concerned. With reference to money, we do not ask what and how, but how much." <sup>18</sup>

There is nothing else in the universe like it. Use-values require the participation of nature, but exchange-values are made by quantifying nature. The ascension of quantity over quality gives these relations the capacity for evil once the value function is advanced to the center of the social stage, as in capitalism. In this loss of the sensuous and concrete, the abstracting function is abandoned to the delusions of power. Precisely because nature has been detached, with its limits and inter-relations, in short, its ecosystems, there is no longer any internal limit to the value function. It can expand effortlessly. Pure quantity can swell infinitely without any reference to the external world, even though the quantity-using creature remains very much in that world. And if there is some will-to-power in the creature who makes for himself this value function, carried forward from traditional modes of domination, then that, too, can go to infinity.

Along the way, possibilities for recognition are sundered. Simmel points out two aspects: that valuation takes place in the human being, i.e. "part of the-natural world," and that it is not the world in itself, but "rather the whole world viewed from a particular vantage point." The abstraction into money sets loose these two formally distinct parts of value to wander their separate ways – and the creature who subsumes both those ways, *Homo œconomicus*, or the capitalist personification – is split internally and from the world. Hence the value that stalks forth in the economy is also the route that turns our differentiation

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from nature into a regime of splitting, which is to say, into one of self-perpetuating ecodisintegration.

The transformation of capital from an ancient part of the economic system into the world-devouring monster reproduced by capitalism occurred when the value function became attached to labor itself. For this to have taken place, an extensive series of prior developments, affecting the history of money as well as labor, was necessary.

were melted down for bullion, others were given directly to the as a commodity to be exchanged along with others. Many coins and where they were treated primarily in their second function, above into a matrix that had no "use" for their exchange-value, with lucre.19 In Carolingean times, coins were introduced from acquainted with money but actually resistant to it was converted ring around the first millennium, in which a society not simply un-Alexander Murray has pointed out a kind of turning point occurof human nature), the use of money was distinctly an acquired ideological notion, that the species has an innate propensity to power of money and foisted it upon the masses - who proved sigconcludes that money was considered "strange and suspect," and the people of the "Dark Ages" into the glories of exchange. Murray while others still have been found unused in various storage sites. barter, truck and exchange (in other words, that capitalism is part nificantly reluctant to take the bait. In a far cry from Adam Smith's there can be no doubt that medieval monetarism eventually the strange function of value, a prescience, shared for a time by holds "psychic inertia" responsible. But I would think that said Fines and penalties such as flogging had to be imposed to rouse poor, others were converted into ornaments and silver chalices, into one whose wheels were to become increasingly lubricated the cradle of the capitalism we know deserves special attention, habit, often requiring coercion. With regard to Europe, which as the Catholic Church, that the same money could become a wedge inertia was grounded in an intuition of the wreckage inherent in breaking down the integrity of communal life-worlds. In any case, Long before capitalism arose as such, rulers appreciated the

speeded up economic activity and prepared the way for capital accumulation. The production of money surged - thus England ism. By facilitating exchange, money increased its own value, had ten mints in 900, and seventy a century later – and banking fostered avarice, led to usury, and created demand for its own Europe with the founding of the Bank of Venice in 1171. - which first occurred to people in the ancient era - came into

and Florence, became the leading centers of the early manifestaand mostly in the Italian city-states. Venice, along with Genoa gests, this side of the process was advanced in the Mediterranean progress. As the location of Europe's first bank in Venice sugtions, and urbanism fostered rationalization and technological tion of finance. Later the Luso-Hispanic plunder of the Western mid-eighteenth century, to buy its way into hegemony.20 had remained backward with respect to Asian centers until the lion for the finance capital that allowed Europe, whose economy hemisphere (opened by the Genovese Columbus) provided bul-The expansion and centralization of trade, banking func-

ern Europe and especially through agricultural transformations society meant the land above all else, and, more generally, nature. worker from the means of production - which in precapitalist In one of Marx's many summaries of this he puts it as follows: in England. Here the critical factor became the separation of the As for the labor relation, this was furthest developed in North-

One of the prerequisites of wage labour and one of the historic convert it into values, in order to be consumed by money, not conditions for capital is free labour and the exchange of free as use value for enjoyment but as use value for money. Another labour against money, in order to reproduce money and to This means above all that the worker must be separated from the means of its realisation - from the means and materials of labour. prerequisite is the separation of free labour from the objective of the worker to the objective conditions of his labour is one of ownership: this is the natural unity of labour with its material preland, which functions as his natural laboratory ... the relationship

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The same relation holds between one individual and the rest.<sup>21</sup> to himself as proprietor, as master of the conditions of his reality. requisites. [Under these circumstances] the individual is related

cheap imports of corn off the ejidos23 and into the maquiladoras ever peasants stand backwardly in the way of accumulation, as, expropriation of community gardens in New York City, or wherof the "enclosure" of the commons, i.e. of commonly owned land; nomies. It took place most systematically in England in the form as bullion from the Americas began entering the European ecoveritable frenzy of estrangement.24 that commodities relate as persons, and persons as things, in a way value-driven production mystifies the nature of things, so with other workers (and, by extension, all social relations), and, and the product made, the method of work employed, relations side this, the alienation or estrangement between the worker regard has two aspects: the physical and juridical removal of reproduced as capital penetrates life-worlds. Separation in this the capitalist mode of production; it is a gesture continuously 2 lieute ures the notion of property and creates the social foundation of lies vulnerable to globalization. The separation of peoples from or across the border - and also across that half of the world which for example, in Mexico, where NAFTA fosters their being driven by trades could fatten; and it continues to take place today, with the dispossessed so that the great capitalist enterprises and slave the "New World" and Africa as millions upon millions became ing of capitalism to that subcontinent; it took place throughout it took place elsewhere in Europe as the precondition for the comdispossession began accelerating after the mid-sixteenth century the famous concept of commodity fetishism, an insight into the producers from the appropriation of their own lives; and alongthe means of production and their communal heritage transfig later, in the mature synthesis of Capital, it became amplified as ated labor was drawn by Marx in his early philosophical writing; finally from their own human nature. The fourfold sense of alien The separation required violent expropriation.<sup>22</sup> The rate of

wake work-discipline, as individual human labor had to become forcefully to the industrial system, where technological prowess of capital. It applies to the expropriation of peasants, but also domination of nature. The industrial revolution brought in its in the service of value-expansion puts the finishing touches to the accepting the logic of the bound time of accumulation. Wages scale. Just as early-medieval people were coerced into accepting are convertible to capital only if placed in a rigid schema of linear the logic of money, so were early-modern people coerced into integrated with machinery and coordinated on an ever-expanding gether and justify the whole arrangement in the eyes of God.<sup>25</sup> computing the exchange-value of labor-power, or of measuring temporality, inasmuch as an abstract interval is the only way of socialization and a religious and moral culture to put it all toin the form of clocks was required, along with new modes of the surplus value wrung from it. For this computation, technology was strikingly revealed in the great witch crazes of early-modern phase, the inner connection to the gendered bifurcation of nature capital, come to express its powers of splitting. In capital's early together with the dominant religion and, under the aegis of 'As the system matured, its latent powers of ecodestruction would come to the fore under the aegis of industrialization.  $^{26}$ Europe, and through ideologues of science like Francis Bacon. Separation/alienation/splitting is the fundamental gesture Science, technology, and industry, therefore, are all bundled

Industrialization is not an independent force, then, but the hammer with which nature is smashed for the sake of capital. Industrial logging destroys forests; industrial fishing destroys fisheries; industrial chemistry makes Frankenfood; industrial use of fossil fuels creates the greenhouse effect, and so forth – all for the sake of value-expansion. Most important, the technically driven production of the industrial order demands an expanded driven production of the industrial order demands an expanded energy supply, for purpose of which fuels such as coal, natural gas, and petroleum are by far the most likely candidates. Such fuel represents past ecological activity: numberless residues of

sunlight over hundreds of millions of years, now turned to heat energy to propel the instruments of industrial society. Each drive to the mall to buy wasteful plastic junk made from fossil fuel degrades eons of ecological order into heat and noxious fumes. I have read somewhere that in a single day the industrial world consumes the equivalent of ten thousand years of bioecological activity, a ratio, roughly, of 3–4 million to one. With this squandering, and the associated tossing about of materials of every sort, the entropic potentials inherent in social production reach levels of eco-destabilization on an expanding scale. The staggering pace of entropic decay has only become noticeable recently because the earth is sizable enough to have buffered its effects until the past thirty years or so, since when we have had a clogging of the "sinks" along with an ever-rising level of production.

The phenomenon of separation expresses the core gesture of ecodisintegration, for separation in the physical and social sense corresponds to splitting in the ontological sense. Splitting extends the separation of elements of ecosystems past the point where they interact to create new Wholes – or, from another angle, to the point where the dialectic that constitutes ecosystems breaks down. It follows that the ecological crisis is not simply a manifestation of the macroeconomic effects of capital, but reveals also the extension of capitalist alienation into the ecosystem, is grounded in the relation between capital and labor, it also follows that the ecological crisis and capital's exploitation of labor are two aspects of the same phenomenon.

The historical matrix for this occurred when persons of the nascent ruling class subjugated labor into the system of exchange-value, turning human transformative power into a commodity on sale for a wage. The wage-relation, in which one's capacity to work is given a money equivalent and sold on the market, is much older than capitalism itself, nor was it the only form of labor within emerging capitalist markets,<sup>27</sup> nor, needless to say, is it a necessary evil in each and every instance where it appears. But its generalization into the means by which capital itself is

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chemical bonds developed by living creatures in interaction with

produced permanently alters the landscape of human being in an anti-ecocentric direction.

salaried workers on the fertile plains of labor markets. There were economic, legal, and cultural conditions were finally put together many turns in this road, but the definitive one came when the into a self-expanding machine for turning human beings into production became accumulation of value, use values became above were subsumed into the purposes of capital. The goal of bourgeois revolutions. Then all the state functions mentioned class of capitalists took full control of the state during the various came the alpha and omega of the economy, and ecological relasubordinated to exchange-values, surplus-value production begender exploitation becomes the rule for the great masses of tions were abstracted away from their mutual differentiation and fragmented. In its latest, neoliberal-globalized stage, increased achieve substantive gains within the bourgeois order. Racial and humanity, even as upper-class women within the metropolis ethnic schisms persist alongside of, and as a defense against, the a historical actuality whose logical outcome is the complete ultimate atomization which is capital's telos. Non-recognition of motion toward nihilism; human nature becomes separated from fellow creatures is built into society, which thereby undergoes a Capitalism became a full-blown system when the political, submission of the globe to the regime of value. itself, and what has been only a logical potentiality has become

### Philosophical interlude

justice to the topic requires another volume, while to ignore it completely leaves too many threads of the argument dangling. say a little further, so as to round matters out before launching debates, without explicitly saying as much; here we need only In fact, we have been intervening throughout in philosophical into the question of how to transform capitalism. No more than an extended set of notes, really, since to do

of a kind of "wrong turn" taken by civilization, one manifestation The Australian eco-philosopher Arran Gare develops the notion

> was the mutation that engendered Christianity's flight from the Neoplatonism, that is, at the cradle of Christianity, is less imworld of mere matter. We might call this the philosophical reflex of which was the postulation of a higher realm of being over the which enshrines the deadening of matter by neglecting nature's offshoots of this attitude remain active in many non-religious producing itself according to specifics of different epochs. This portant for us than the fact that an idea of this sort keeps reof the domination of nature. That it took at first the shape of petition, seeing it as a fundamental principle of life.28 body, leaving in its wake a space of abstraction from which the formativity, or Social Darwinism, which naturalizes capitalist comintellectual ideologies, for example, as mechanical materialism, ine to capital can be drawn. As Gare's account makes clear,

somewhere in mind, the installation of a class system with higher expressions. Before there was Neoplatonism there was Platonand take positions, of which their philosophies are necessarily he or she has been thrown into it. All thinkers have positions, sopher can do other but try to make sense out of the world as great Martin Heidegger, whose ontology cannot - and more to the over mere reality, we may expect the thinker in question to have common people with a strong state that condensed class relations to establish philosophers as rulers, in the meantime subduing the enough about Plato to recognize the impulse behind his thought ism, which first elaborated the idea of essences; and we know is necessary to regard all thinking as conjunctural, as no philoall, material interests include ideas and are shaped by ideas), it point, should not – ever be separated from his explicit Nazism.29 of the rulers. This went for Plato and, in recent times, for the people over mere helots, needless to say, with himself on the side Wherever, then, there is postulated a "higher reality" standing into abstract principles while mystifying them with propaganda While it is nonsense to reduce ideas to material interests (after

very seriously by deep ecologists, particularly in regard to the critique of technology, where he even takes to task the notion of Heidegger is of special importance, as his thought is regarded

efficient cause.<sup>30</sup> He asks: is not the notion of efficient cause itself a concomitant of technological domination? Does it not therefore perpetuate the estrangement from nature and ultimately the ecological crisis? For Heidegger, the efficient cause does not stand apart from the instrumental cause, but is essentially instrumentality writ large.

Why, he argues, seek a "causa efficiens" which "brings about the effect that is the finished [product]," and that becomes "the standard for all causality," but at the same time drowns out the other Aristotelian causes: the causa materialis, or material out of which a thing is made; the causa finalis, the shape or form into which it enters; and the causa finalis, the end to which it is put? To Heidegger, the authentic technological attitude does not privilege any aspect of causality, but rather sees all four as "the ways, all belonging at once to each other, of being responsible for something else." From another angle, Heidegger posits a much more intimate and nonlinear relation between cause and effect than is conveyed in the notion of efficient cause, seen as a kind of demiurge standing behind the world and moving it.

The notion is developed in relation to a silver chalice made as a sacrificial vessel. Using terms such as "indebtedness," "considering," and "gathering," Heidegger conveys how a tool-using human can take responsibility for the "bringing-forth," or poiesis, of new being. In his later period (this essay was first composed as a lecture in the early 1950s), Heidegger saw the truth of being as a "presencing"; hence, "Every occasion for whatever passes beyond the nonpresent and goes forth into presencing is poiesis, bringing-forth." Far from being anti-technological, then, Heidegger sees technology as, ideally, an elementary form of the "coming into being" that is the human contribution to the real; it is to be set alongside nature's bringing-forth, or physis, by which is meant "the arising of something out of itself," like the "bursting of a blossom into bloom."

Bringing forth gathers the four modes of causality; hence revealing, or presencing, is the highest mode of technology. Following the Greek sense, Heidegger locates this true meaning as

techne, and groups the technical approach to reality with "the arts of the mind and the fine arts."

Whoever builds a house or a ship or forges a sacrificial chalice reveals what is to be brought forth, according to the terms of the four modes of occasioning. This revealing gathers together in advance the aspect and the matter of ship or house, with a view to the finished thing envisioned as completed, and from this gathering determines the manner of its construction. Thus what is decisive in *techne* does not lie at all in making and manipulating nor in the using of means, but rather in the revealing mentioned before. It is as revealing, and not as manufacturing, that *techne* is a bringing-forth. (295)

Under conditions of our estrangement, things have not worked out this way: "the revealing that holds sway throughout modern technology does not unfold into a bringing-forth in the sense of poiesis." Instead, it is a "challenging... which puts to nature the unreasonable demand that it supply energy which can be extracted and stored as such." The earth is now reduced to a repository of resources; and this degrades both mineral and agricultural practice. It is an "expediting" directed toward "driving on to the maximum yield at the minimum expense." There is a "monstrousness that reigns here," for the description of which Heidegger sets out another set of ontological terms, to go along with challenging: "setting-upon," "ordering," and "standing reserve" (this being a kind of hypostasis, in which "everything is ordered to stand by, to be immediately on hand, indeed to stand there just so that it may be on call for a further ordering.")

Heidegger integrates this critique in the term, "en-framing" (Ge-stell). This accounts for the dependence of modern technology on physical science; more deeply, it suggests the way in which being is frozen and constrained under the spiritually desolate condition of modernity. From this point, Heidegger derives many of the phenomena inherent to this way of technical being, from the reduction of God to a mere causa efficiens, to the self-estrangement of "man." "Where this ordering holds

sway, it drives out every other possibility of revealing." Thus, enframing technology becomes hegemonic, and the very possibility of truth withers.

Heidegger concludes his essay optimistically: there is a "saving power" growing in the midst of the danger posed by enframing. For there is a "granting," too, in the midst of technology, and this can be gathered as a saving power. How? If we "ponder this arising," and, in recollection, "watch over it." In this way we can get beyond the notion of technology as an instrument, not through "human activity," but by "reflection": we can "ponder the fact that all saving power must be of a higher essence than what is endangered, though at the same time kindred to it." Specifically, Heidegger calls for the enhancement of an artistic dimension, not for aesthetic purposes alone, but as his Greeks did, for the purpose of revealing: "The closer we come to the danger, the more brightly do the ways into the saving power begin to shine and the more questioning we become. For questioning is the piety of thought" (317).

Taking his cue, let us question Heidegger, though perhaps not with piety. Begin with the question of universality. A thinker of Heidegger's magnitude, one of the philosophical luminaries of the twentieth century, must, one should think, stand for the whole of humankind if he is to command respect. And indeed he claims to do just this, if only through his continual reference to "man" as the subject and object of his discourse, viz: "Who accomplishes the challenging setting-upon through which what we call the real is revealed as standing-reserve? Obviously, man. To what extent is man capable of such a revealing?" (299). We may translate this: who is the agent of the pathological relation to this is, self-evidently, man. At this point the questioning of Heidegger may commence. For the usage of an undifferentiated "man" as the subject of technological degradation is a highly

dubious way to confront the ecological crisis.

Who is this "man"? Logically, it is either somebody or everybody, and if the latter, it is either all of us as an undifferentiated

mass, or all of us in some kind of internal relation – a hierarchy like patriarchy or class, in other words, some articulation of the social world.

The articulated view opens onto an effective understanding of the crisis. But it is not the one chosen by Heidegger, who, instead of articulating the real character of humanity, splits it into two equally unsatisfactory moieties. Manifestly, he speaks for an undifferentiated notion of "man"; concretely and practically, however, he speaks only for the Northern European elites. Heidegger really speaks just for some people, but as this would absolutely violate the spirit of his discourse and the supreme abstraction of his language, he ascends into the fuzzy realm of a falsely universalized subject.

real struggles and cannot be fulfilled unless the philosopher was acutely aware that philosophical syntheses are reflective of elites occupied the master role. one of Germany's leading universities) affirmed a radically racist can be no doubt that whoever signed up to its principles (and need be enunciated. But Nazism was nothing if not a specific maintain the illusion that no specific program for transformation and scurrying through the language of antiquity for authenticity see in essays of this kind, where elliptical phrases, neologisms, of Heidegger was one of the great intellectual scandals of the National Socialism, and saw the Nazi Party as capable of healing intervenes in these struggles. In this spirit he connected his sonal history, which was only evaded and never repudiated during classes of Northern Europeans? There is the matter of his perview of the world, within which, of course, the Northern European Heidegger was a party member and a major official at Freiburg, project. Whatever else can be said about the Third Reich, there to a certain gnomic tendency in his later thought, such as we twentieth century, and the shame of it undoubtedly contributed this lesion by taking state power in Germany.<sup>31</sup> The Nazi career philosophical project of curing the malaise of modern society to the years when this essay was gestated. The younger Heidegger How do we know that Heidegger speaks just for the dominant

We can see directly within the present text how Heidegger refuses to define a specific agent for the crisis, however much its logic may demand this – and also why the question of efficient cause is distasteful to him, as this methodology, used faithfully, would disclose his dreadful partiality. And so Heidegger talks movingly of the revealing expressed in the making of a silver chalice, but glosses over the reality that has degraded craftmanship and its spiritual associations. For who makes chalices any more? Why not address the people who make Barbie dolls, or methyl isocyanate, or overpriced sneakers, or cluster bombs – and who can stop doing so if they are willing to starve, or lose their health insurance, or not make the mortgage payments on the house?<sup>32</sup> Are not the real conditions of their labor the causal

elements in the deterioration of their techne?

Heidegger talks elsewhere of the "forester" who no longer "walks the forest path in the same way his grandfather did" because he is "today ordered by the industry that produces commercial woods" thus making him "subordinate to the orderability of cellulose." Yes, yes, excellent to talk of this, but why not go on to the "industry" as a causal mover – not because of the essence of "industrialization" that it bears, but because it is going to serve the lord of capital that reduces trees to cellulose? Nor should this be talked of in strictly metaphorical terms: Who is this industry? There are real people involved, who personify the great forces of the capital system yet must also be held morally, politically, and legally responsible, as the management of Union Carbide should have been held responsible for Bhopal.

Similar reflections are in order for the <u>peasants</u> whose <u>downfall Heidegger laments</u> – and who fell, and continue to fall all over the world, because of the encroachment of the same profit motive. And of course, the same goes for one of his most important insights, that there is something active at work in the world which "puts to nature the unreasonable demand that it supply energy which can be extracted and stored as such." Does this something simply arrive, like Athene, from the head of its father? or is it the product of a vast transformation only understandable

in terms of the inexorable force of capital? Is it the self-generated exfoliation of an original estrangement, carried out without any mediations in the real world? Well, then, one still has to explain the many forms of said mediations, like stock exchanges, oil pipelines, credit cards, police, and armies.

our view of what is wrong and what has to be done to right most obvious point. This is not to deny that his critique runs far is striking how closely Heidegger's critique of technology can a conclusion, but refuses to name it as such, then one is mystifyof this sort has been repeatedly used for malignant purposes. malignant purposes. We dwell on Heidegger not just because of cal crisis can touch. But what is merely profound swims at an it in a way that no political-economic analysis of the ecologi-Heidegger's insights are, as he intended, profound: they advance be applied to the capital system, yet never bridges across to this ing, and as with all mystifications, supporting the status quo. It Behind the discourse of "ecology" can lurk, therefore, a specter inaccessible and meaningless depth. More, it can be used for beyond the ordinary insights derived from political economy of fascism. We return to the theme below. his philosophical eminence, but essentially because reasoning If one draws all the appropriate inferences that point to such

Philosophy can and should be an active force extending the reach of political economy. In this regard, it seems to me necessary to postulate a methodological principle that embodies the paramount goal of reintegrating ecosystems. We have seen how the world of capital is riddled with the sequelae of splitting, and how ecosystemic integrity is critically dependent upon differentiation. It follows that we need to overcome splitting with differentiation, in thought as well as practice. We need, therefore, a method incorporating the notion of differentiation.

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Let us recall some conditions for this. A differentiated relationship is one in which elements of an ecosystem are brought together in a process of mutual recognition that respects their wholeness and integrity. There are three terms here, each needing explication: the elements are presumed different, yet capable of

entering into a relationship; the entering upon this relationship requires the specific activity of an agent; and, finally, the mutual recognition implies identity-in-difference: entities are what their being is, yet this being is defined in the relationship to the other. In this case, we are speaking of bringing different ideas together, and, as we have seen for other aspects of differentiated production like gardening, holding them so that the life within them can be expressed as the formation of an integral whole.

may recall that for these progenitors of philosophy, dialectic we may claim some lineage from the ancient Greeks too, we ing here of a process broadly defined as dialectical. And since meant the bringing together of different points of view for the of the hidden relationships of differing points of view. Dialectics radical unfulfillment of the merely individual mind, or ego, and recognizes both the limits and powers of the mind: that we are nature which can be grasped intuitively at best, and owing, also, Dialectic was not a mere pluralism but a consciousness of the purposes of argument, and in the interests of arriving at truth.33 a dialogical spirit of open discourse - a process the fulfillment remain open to nature and to its shape in other human beings. that we are powerful because of the capacity of the imagination to "dialectic" of separation and attachment ... but it also recognizes to the peculiarities and illusions of human selfhood, with its limited in our knowing, owing to the unfathomable reaches of Hence dialectics as practice is the bringing together of minds in of which requires a free society of associated producers, that imposed by class and gender or racial domination. Without this, is, a society beyond all forms of splitting, in particular, those into ignorance, superstition, and apathy, while the logic of the the genius of those forced into the subaltern position will wither A moment's reflection will tell us that we have been speakmasters will be fatally corrupted by power.

There is, in addition to dialectics as practice, the question of dialectics as logic, which we can only barely pursue here, except to say that it must be an abstraction from practice that remains in contact with practice – i.e. differentiated and not split-off from it.

Here the prime dialectical category is *negation*, as that which both is and is not itself. In line with this, dialectic must be capable of guiding practice as well, so that for dialectical realization, theory is practical, and practice is theoretical – a condition known generally as *praxis*.<sup>34</sup>

of modern physicists, assert the participation of their thinking now, that the greatest minds, including a considerable number a sense of awe - although it must be said, and left at that for there is simply no elaboration of this into consciousness beyond workings of the universe. For the great majority of humankind, notion of dialectic is grounded in the formativeness of nature this aggrandizes ecosystemic splitting into a metaphysic. The notion cannot privilege the "higher reality" over mere being, as as to the "dialectics of nature."35 It is plain, first, that any such in the great reaches of the cosmos and the fine grain of matter ings of thought, is conducted at a great remove from the ultimate practice, and that human practical activity, including the workthe twofold reason that these laws are abstracted from human we do not project the laws of dialectical logic into nature, for forth life, so is dialectic the location of human creativity. But ing, made word. As differentiated ecosystems will tend to bring the human mind, the flux of nature, its absencing and presenc- it is, one might say, nature's formativity refracted through Finally, in this highly compressed account, we need to inquire

The precondition of an ecologically rational attitude toward nature is the recognition that nature far surpasses us and has its own *intrinsic value*, irreducible to our practice. Thus we achieve differentiation from nature. It is in this light that we would approach the question of transforming practice ecologically – or, as we now recognize to be the same thing, dialectically.

## On the reformability of capitalism

The monster that now bestrides the world was born of the conjugation of value and dominated labor. From the former arose the quantification of reality, and, with this, the loss of

of estranged self emerges as the mode of capital's reproduction. a "regime of the Ego," meaning that under its auspices a kind the differentiated recognition essential for ecosystemic integrity; of the purified male principle, emerging millennia after the initial ensure the reproduction of capital. This Ego is the latest version more fully, it is the ensemble of those relations that embody tistical" - though under capitalism it certainly exhibits hubris; This self is not merely prideful - the ordinary connotation of "egothese icy waters. From this standpoint one might call capitalism from the latter emerged a kind of selfhood that could swim in of splitting and non-recognition: it recognizes neither itself, nor suitable "power-women" to join the dance). It is a pure culture domination into profitability and self-maximization (allowing crime and reflecting the absorption and rationalization of gender the domination of nature from one side, and, from the other, the otherness of nature, nor the nature of others. In terms of the and isolated mind-as-ego into a reigning principle.37 preceding discussion, it is the elevation of the merely individual

sonifications of capital, or may have the role thrust upon them. isolated selves of the capitalist order can choose to become perother persons, and between the self and its world. Hence nothing between all elements of experience: all things in the world, all mandated by the fact that the almighty dollar interposes itself In either case, they embark upon a pattern of non-recognition ruthless self-maximization. Because money is all that "counts," a vides an ideal culture medium for the bacillus of competition and really exists except in and through monetization. This setup proand cold abstraction that will sacrifice species, whole continents peculiar heartlessness characterizes capitalists, a tough-minded objects of demonization to distract the masses. The presence of value, or may be seen as standing in its way, or simply are suitable urban males) who add too little to the great march of surplus (viz Africa) or inconvenient subsets of the population (viz black it with the calculus of profit-expansion. Never has a holocaust value screens out genuine fellow-feeling or compassion, replacing Capital produces egoic relations, which reproduce capital. The

been carried out so impersonally. When the Nazis killed their victims, the crimes were accompanied by a racist drumbeat; for global capital, the losses are regrettable necessities or collateral damage.

spinning magnet generates an electrical field. This phenomenon tion to consumption and back, spinning ever more rapidly as the capital sets going a kind of wheel of accumulation, from producand it is this force field, acting across the numberless points of is what generates the force field, in proportion to its own scale; cally mystifying its real nature, attention is constantly deflected has important implications for the reformability of the system the existence of gigantic pools of capital, the force field these tidying up one corner or another, is radically incompatible with keeps it from being resolved. For one fact may be taken as cerf agglomerations of capital, sets the ecological crisis going, and insertion that constitute the ecosphere, that creates ever-larger of its circulation and the class structures sustaining this. That whole mass of globally accumulated capital, along with the speed by which that source acts. The real problem, however, is the from the actual source of eco-destabilization to the instruments Because capital is so spectral, and succeeds so well in ideologi inertial mass of capital grows, and generating its force field as a chopped away. that regenerates itself the more its individual tentacle-heads are the specter of another mythical creature, the many-headed hydra And by not resolving the crisis as a whole, we open ourselves to extension, the elites who comprise the transnational bourgeoisje. induce, the criminal underworld with which they connect, and, by tain - that to resolve the ecological crisis as a whole, as against The value-term that subsumes everything into the spell of

To realize this is to recognize that there is no compromising with capital, no schema of reformism that will clean up its act by making it behave more greenly or efficiently. We shall explore the practical implications of this thesis in our final section, and here need simply to restate the conclusion in blunt terms: green capital, or non-polluting capital, is preferable to the

ecodestructive breed on its immediate terms. But this is the lesser point, and diminishes with its very success. For green capital (or "socially/ecologically responsible investing") exists, by its very capital-nature, essentially to create more value, and this leaches away from the concretely green location to join the great pool, and follows its force field into zones of greater concentration, expanded profitability – and greater ecodestruction.

There are crises within capitalism, which both generates them and is dependent upon them. Crises are ruptures in the accumulation process, causing the wheel to slow, but also stimulating new turns; they take many shapes, have long or short cycles, and many intricate effects upon ecologies. A recession may reduce demand and so take some of the load off resources; recovery may increase this demand, but also occur with greater efficiency, hence also reduce the load. Thus economic crises condition the ecological crisis, but have no necessary effect on it. There is no singular generalization that covers all cases. James O'Connor summarizes the complexity:

Capitalist accumulation normally causes ecological crisis of certain types; economic crisis is associated with partly different and partly similar ecological problems of different severity; external barriers to capital in the form of scarce resources, urban space, healthy and disciplined wage labor, and other conditions of production may have the effect of raising costs and threatening profits; and finally, environmental and other social movements defending conditions of life, forests, soil quality, amenities, health conditions, urban space, and so on, may also raise costs and make capital less flexible.<sup>38</sup>

But capital gets nature whether on its way up or its way down. In the United States, the boom-boom Clinton years witnessed grotesque increases in matters like the sowing of the ecosphere with toxic chemicals;<sup>39</sup> while the sharp downturn that accompanied the advent of George W. Bush's presidency was immediately met by rejection of the Kyoto Protocols. From the standpoint of ecosystems, the *phase* of the business cycle is considerably

less relevant, then, than the *fact* of the business cycle, and the wanton economic system it expresses.

Economic problems interact with ecological problems, while ecological problems (including the effects of ecological movements) interact with economic problems. This is all at the level of the trees. For the forest, meanwhile, we see the effects on the planetary ecology caused by the growth of the system as a whole. Here the dark angel is the thermodynamic law, where mounting entropy appears as ecosystemic decay. The immediate impacts of this on life are what energizes the resistance embodied in the environmental and ecological movements. Meanwhile, the economy goes on along its growth-intoxicated way, immune to the effects of ecosystem breakdown on accumulation, and blindly careening toward the abyss.

The conclusion must be that, irrespective of the particulars of one economic interaction or another, the system as a whole is causing irreparable damage to its ecological foundations, and that it does so precisely as it grows. And since the one underlying feature of all aspects of capital is the relentless pressure to grow, we are obliged to bring down the capitalist system as a whole, and replace it with an ecologically viable alternative, if we want to save our species along with numberless others.