Functionalism

American Psychology Takes Hold

American functionalism

central interest: how the animal uses its mind to adapt to environment

key tenets:

- consciousness cannot be meaningfully analyzed in elements
- structure and function cannot be meaningfully separated
- behavior should be treated in terms of significance to the organism

"Functionalism" by Titchner

fit with American temperament: individualism, independence, pragmatism

move toward applied psychology embraced



William James

"father of American Psychology"

divisive figure:

heavy focus on mentalistic and psychical (psychedelic) phenomena

religion, telepathy, seances, mind-altering drugs trivia: laughing gas & Americanitis

not an experimentalist by trade (held positions in Psychology in Philosophy department at Harvard)

not the founder of functional psychology *per se*, but ideas had huge influence on American movement

James program

in James we see the first clear articulation of views in opposition to European tradition

elemental science v. holistic discipline
pure science v. pragmatic discipline

scientific and philosophic approaches

synthesis of evolutionary ideas

The principles of psychology (1890)

- · study of people as they adapt to their environment
- consciousness has a function (enables survival)
- espoused a radical empiricism

use of introspective and comparative methods

on pragmatism

The corpus of the dispute was a squirrel – a live squirrel supposed to be clinging to one side of a tree-trunk; while over against the tree's opposite side a human being was imagined to stand. This human witness tries to get sight of the squirrel by moving rapidly round the tree, but no matter how fast he goes, the squirrel moves as fast in the opposite direction, and always keeps the tree between himself and the man, so that never a glimpse of him is caught. The resultant metaphysical problem now is this: Does the man go round the squirrel or not? He goes round the tree, sure enough, and the squirrel is on the tree; but does he go round the squirrel?

The pragmatic method is primarily a method of settling metaphysical disputes that otherwise might be interminable. Is the world one or many? – fated or free? – material or spiritual? – here are notions either of which may or may not hold good of the world; and disputes over such notions are unending. The pragmatic method in such cases is to try to interpret each notion by tracing its respective practical consequences.

the validity of an idea must be tested by looking at its practical consequences

the stream of consciousness

consciousness is a continuous flow, always changing, never the same twice.

consciousness is:

- personal: makes no sense to look for general principles
- irreducible: makes no sense to look for elements
- functional: serves to aid in survival of organism
- selective: certain events entering are attended to and others are not

on emotion

the James-Lange theory of emotion reverses traditional causal relationship

Tehran (sees spider) → Tehran (knows fear) → Tehran (heart raises) → Tehran (runs) stimulus responses

the physical response precedes emotion bodily change is the emotion

Embodiment is sexy today

ideo-motor theory: idea and action are one in the same

idea - body - environment are one in the same bodily events shape thoughts (*see Proffitt)



- American PhD in psychology
- American lab in psychology
- American journal in psychology
- president of APA

president of Clark University
majority of early American PhDs

interests in human development and adolescence

"new habits being formed"

recapitulation theory moral development

sublimation: tamp down ill sexual desires through work

"I had never chanced again upon a book that seemed to me to degrade me in my womanhood as the seventh and seventeenth chapters on women and women's education of President G. Stanley Hall's Adolescence"

Francis Cecil Sumner

first African American PhD paradoxically advocates for segregated higher-ed



Inez Beverley Prosser first African American Woman PhD

Kenneth and Mamie Phipps Clark

segregation's negative impact of on children (of all races

major efforts in desegregation

doll studies: black children identify with and prefer white dolls





John Dewey

The Reflex Arc Concept in Psychology There is a stream of behavior...which is coordinated and directed toward a goal

obviate S - R distinctions * ex, child w/ candle

Educational Psychology

learning by doing rather than traditional memorization

facilitate interest and creativity

spawned the development of "experiential education" program



Thorndike a bridge to behaviorism

comparative psychology: using animals to gain understanding of the first principles of learning

before Thorndike:

are human and animal intelligence / emotion equivalent? **Morgan's canon:** in no case are we to interpret behavior as the result of a higher order process if it can be interpreted at a lower scale all behavior is purposive

Moved to Columbia (brought his 2 best chickens) and began puzzle box experiments

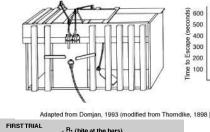
research into trial and error learning

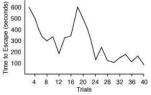
early research with chickens - bitter corn and maze escape

instrumental conditioning

Trial and error turns to organized behavior

Learning is incremental and occurs automatically





LATER TRIAL Tendency

The same applies to **ALL** animals

Connectionism

Stimulus and Response are connected by a neural bond

Strength of bond varies and determines p(R):S

Strength of bond determined by Law of Exercise... laws of use & disuse

& Law of Effect response followed by a satisfying state of affairs is strengthened response followed by an annoying state of affairs is weakened

research only supported the first postulate of the Law of Effect:

• practice or disuse alone has no effect on strength of association

revised Law of Effect behaviors followed closely in time by a positive outcome are more likely to be repeated

bridge to behaviorism

a new type of associationism

early advocate of S-R psychology

relationship between sensation and ideas? relationship between ideas and ideas? relationship between ideas and behavior?

relationship between stimulus and response

Thorndike is not a behaviorist proper: included notions such as "satisfactory outcome" (mentalese) saw some value in introspection