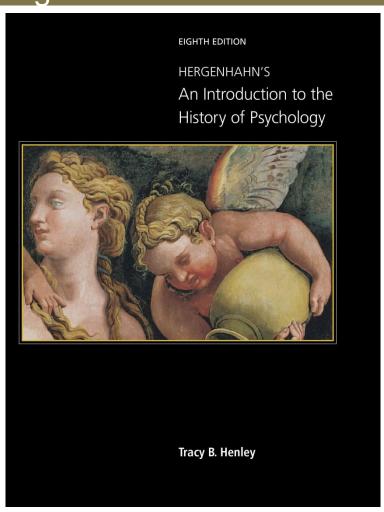
Hergenhahn's An Introduction to the History of Psychology Eighth Edition



Chapter 11 American Psychology

and Functionalism

Learning Objectives (1 of 2)

After reading and discussing Chapter 11, students should:

- Be familiar with the history of philosophy in the United States up to functionalism.
- Understand the basic tenets of functional psychology.
- Be acquainted with the works, philosophy, and psychology of William James.
- Be familiar with the work of Hugo Münsterberg and his contributions to applied psychology.



Learning Objectives (2 of 2)

- Be familiar with the experiences of Mary Whiton Calkins and her work in psychology.
- Be acquainted with G. Stanley Hall's contributions to the development of psychology.
- Be familiar with the work and contributions of Francis Sumner and Kenneth Clark.
- Be familiar with psychology at Clark University.
- Have a knowledge of functionalism and the functionalists at the University of Chicago.
- Be acquainted with functionalism and the functionalists at Columbia University.



Early U.S. Psychology (1 of 3)

- Stage one: moral and mental philosophy
 - Psychology included topics such as ethics, divinity, and philosophy. To learn psychology was to learn the accepted theology of the day.
 - "American Enlightenment" began in 1714
 - Samuel Johnson, influenced by Locke's An Essay Concerning Human Understanding, wrote a book which contained some topics which were psychological in nature—child psychology, the nature of consciousness, the nature of knowledge, introspection, and perception.



Early U.S. Psychology (2 of 3)

- Stage two: intellectual philosophy
 - Psychology became a separate discipline
 - Became primarily influenced by the Scottish common sense views.
- Stage three: the U.S. Renaissance
 - Psychology becomes an empirical science.
 - Late 1880s
 - Publishing of John Dewey's textbook, the first issue of the American Journal of Psychology
 - James's Principles of Psychology (1890)



Early U.S. Psychology (3 of 3)

- Psychology began emphasizing individual differences, adaptation to the environment, and practicality.
- Stage four: functionalism
 - Science, emphasis on the individual, and evolutionary theory combined into the school of functionalism.



Characteristics of Functional Psychology (1 of 3)

- Never a well-defined school
 - Did not have one recognized leader or an agreed-on methodology.
 - Common themes, however, ran through the work of whose calling themselves functionalists.
- Opposed the elementarism of structuralism
- Focus was to understand the function of the mind
 - Focus was not upon a description of its contents.
 - The function was to aid the organism in adapting to its environment



Characteristics of Functional Psychology (2 of 3)

- A practical science
 - Desired to be a practical science
 - Apply findings to the improvement of the human condition
- Research on many participants
 - Participants included animals, children, and abnormal humans
 - Urged the use of any methodology that was useful
- Concerned for the "why" of mental processes
 - This led directly to an interest in motivation



Characteristics of Functional Psychology (3 of 3)

- Accepted both mental processes and behavior
 - Were accepted as legitimate interests for psychology
- More ideographic than nomothetic
 - More interested in differences than similarities
- Directly or indirectly influenced by William James



William James (1 of 5)

- William James
 - Pragmatism
 - The belief that if an idea works, it is valid
 - Radical empiricism
 - All consistently reported aspects of human experience are worthy of study
 - Opposed Wundt's approach to psychology
 - James's highly influential *Principles of Psychology* appeared in two volumes, 28 chapters, and a total of 1,393 pages.



William James (2 of 5)

- Stream of consciousness is:
 - Personal to the individual
 - Continuous; cannot be divided up for analysis
 - Always changing
 - Selective; some events are selected for further consideration while others are not
 - Functional; purpose is to aid the individual in adapting to the environment.
- Habits (instincts) are formed as an activity is repeated.
 - He had a neurophysiological explanation of habit formation.



William James (3 of 5)

- Three components of self (empirical self)
 - Material self
 - Body, family, and all things owned
 - Social self
 - Self known by others; many social selves
 - Spiritual self
 - State of consciousness, one's own subjective reality
- The self as a knower is the awareness of one's empirical self. James was one of the first to examine self-esteem.



William James (4 of 5)

- James-Lange theory of emotion
 - Event (stimulus) causes a bodily reaction/behavior, which is then experienced as an emotion.
- Science must assume determinism, including psychology, but for certain approaches to the study of humans, the assumption of free will might be fruitful.
- Ideo-motor theory of behavior
 - An idea of an action precedes and causes that action.
 - In most cases, ideas and actions flow immediately and automatically producing habitual or reflexive behavior.



William James (5 of 5)

- For voluntary behavior, however, ideas of various behavioral possibilities are retained from previous experiences
 - Their recollection and a selection (by mental effort) of a behavior is a prerequisite to voluntary behavior.
- Pragmatism is the cornerstone of functionalism.
 - Behaviors, thoughts, or beliefs must be judged by their consequences.
 - If it works for the individual than it is appropriate.
 - Truth must be judged by its effectiveness in the situation.
 - What works is true for that circumstance.



Hugo Münsterberg (1 of 3)

- Hugo Münsterberg
 - Disagreed with James on many points regarding behavior and consciousness
 - Stated that behavior causes ideas rather than ideas cause behavior as James had stated.
 - He was one of if not the first applied psychologists.
 - Clinical psychology
 - Reciprocal antagonism
 - Forensic psychology
 - Industrial psychology



Hugo Münsterberg (2 of 3)

- Mary Whiton Calkins
 - Attended seminars with James and worked with Münsterberg in research, but could not be enrolled in Harvard (women were not admitted at this time).
 - She took (unofficially) the Ph.D. examination but could not receive her degree.
 - She was offered a degree form Radcliffe College (undergraduate women's college affiliated with Harvard) but refused.

Hugo Münsterberg (3 of 3)

- Developed a paired-associate technique to study the influence of frequency, recency, and vividness on memory.
- Developed self-psychology, which was her major contribution to psychology.



Granville Stanley Hall (1 of 6)

- Granville Stanley Hall.
 - Organized the first psychology laboratory in the United States
 - Founded the first psychology journal, American Journal of Psychology
 - Helped organize and was first president of the American Psychological Association.
 - President of Clark University.
 - Recapitulation theory states that the development of an individual through their lifetime mirrors the evolution of the species.



Granville Stanley Hall (2 of 6)

- Ideas on developmental psychology were greatly influenced by this theory.
 - His work in this area did much to stimulate educational psychology and start the child development movement in the United States.
- Hall had several ideas about adolescence including ideas about sexual behavior, religious conversion, and sex-segregated schools.
 - He also believed that adolescence was a good time to study human instinctual makeup.



Granville Stanley Hall (3 of 6)

- Hall also focused on the study developmental psychology and the end of the life.
- Adolescence: Its Psychology and Its Relations to Physiology, Anthropology, Sociology, Sex, Crime, Religion, and Education.

Granville Stanley Hall (4 of 6)

- Francis Sumner
 - Hall's last graduate student and first African American to receive a Ph.D. in psychology.
 - Argued for segregated higher education; however, evidence indicates that his public statements did not match his private beliefs and activities.
 - This was a pragmatic way to obtain funding for African American higher education.
 - Developed the psychology department at Howard University into a major center for training African American psychologists.



Granville Stanley Hall (5 of 6)

- Kenneth Bancroft Clark
 - Trained with Sumner
 - Both he and his wife (Mamie Phipps Clark) obtained their Ph.D.s from Columbia University.
 - They did pioneer work on the developmental effects of prejudice, discrimination, and segregation on children.
 - Extremely instrumental in the efforts to desegregate the school systems.



Granville Stanley Hall (6 of 6)

- Hall's Legacy at Clark University
 - In 1908, Hall invited prominent European psychologists to Clark for its 20th anniversary.
 - Hall invited Wundt, Freud, and Jung, but Wundt had a prior engagement.
 - Freud remarked that this visit did much to further the acceptance of his theory around the world.



Functionalism at Chicago (1 of 3)

- John Dewey
 - Wrote "The Reflex Arc Concept in Psychology"
 - Many think this marks the formal beginning of functionalism.
 - Proposed that the three elements of the reflex (sensory processes, brain processes, motor response) must be viewed as a coordinated system directed toward a goal, this goal is usually related to the survival of the organism.
 - Influential in creating what came to be called "progressive" education, which stated that education should be studentoriented and not subject-oriented and students should learn by doing
 - Also involved in liberal causes



Functionalism at Chicago (2 of 3)

- James Angell
 - Presented the three major points of functionalism
 - Functional psychology is interested in mental operations, not conscious elements.
 - Mental processes mediate between the needs of the organism and the environment. Mental functions help the organism survive.
 - Mind and body cannot be separated, they act as a unit in an organism's struggle for survival.



Functionalism at Chicago (3 of 3)

Harvey Carr

- Because learning is a major tool used in adjusting to the environment, it was a major concern of functionalism.
- Carr proposed the adaptive act, which has three components.
 - A motive that acts as a stimulus for behavior (such as hunger or thirst).
 - An environmental setting or the situation the organism is in.
 - A response that satisfies the motive.



Functionalism at Columbia (1 of 6)

James Cattell

- Proposed that psychology should be applying its methods in all human activity because that is what humans do.
- Through his many editorships and ownerships of journals (including *Psychological Review*), he advanced the discipline of psychology and particularly functional psychology.

Functionalism at Columbia (2 of 6)

- Robert Sessions Woodworth
 - Interested in what and why of people's behavior, particularly motivation.
 - He called his brand of psychology dynamic psychology
 - He formulated the symbols S-O-R to include the organism and particularly the organism's motivation.
 - His text, Experimental Psychology, remained the standard text in experimental psychology for two decades.



Functionalism at Columbia (3 of 6)

- Animal research before Thorndike
 - George Romanes studied animal intelligence, but was guilty of anthropomorphizing (attributing human thought processes to nonhuman animals).
 - Conwy Morgan sought to correct Romanes' problems by applying Morgan's canon: "in no case may we interpret an action as the outcome of the exercise of a higher psychical faculty, if it can be interpreted as the outcome of the exercise of one which stands lower in the psychological scale."

Functionalism at Columbia (4 of 6)

- He wanted to avoid the belief that nonhuman cognitive processes are the same as those of humans
 - This is called anthropocentrism.
- Margaret Floy Washburn published several books and articles on animal psychology.
- In her book, The Animal Mind, Washburn inferred consciousness in animals at all phylogenetic levels.



Functionalism at Columbia (5 of 6)

- Edward Lee Thorndike
 - Used the apparatus called a puzzle box to study trialand-error learning using cats.
 - He made the following conclusions:
 - Learning is incremental
 - Learning occurs automatically without being mediated by thinking
 - Same principles of learning apply to all mammals.
 - Developed psychology's first major learning theory, which basically combined associationism and hedonism.



Functionalism at Columbia (6 of 6)

- Mainly consisted of the law of exercise and the law of effect.
 - The law of effect states the following:
 - If an association is followed by a "satisfying state of affairs" it will be strengthened, if it is followed by an "annoying state of affairs" it will be weakened.
 - The law of exercise states that the more often an association is practiced the stronger it becomes.
- Thorndike went on to abandon the law of exercise and discarded the second part of the law of effect.
- Identical elements theory of transfer states that the extent to which information learned in one situation will transfer to another situation is determined by the similarity between the two situations.



Beyond Functionalism

- James Mark Baldwin
 - Co-founded the Psychological Review with Cattell.
 - He was also the first editor of APA's other flagship journal, Psychological Bulletin.

