INTRODUCTION TO
PSYCHOLOGY

ROBERT W. FERGUSON PH.D.
COURSE OVERVIEW

- DEFINITION
- PSYCHOLOGY AND THE LAW
- LAW - HINKLEY
  - MURDER - KILLING WITH MALICE
- PSYCHOLOGY
  - INSANITY - PSYCHOSIS OR HEAT OF PASSION
  - SANITY - PARANOID, ANTISOCIAL, NARCISSISTIC
RESEARCH

- VALIDITY - FACTUAL
- RELIABILITY - CONSISTANCY
- INDEPENDENT VARIABLE - METHOD
- DEPENDENT VARIABLE - RESULTS
- HYPOTHESIS
TYPES

- OBSERVATION
- QUESTIONNAIRE
CORRELATION

• POPULATION - RANDOM
• HYPOTHESIS - THERE IS A CORRELATION BETWEEN EXPECTANCY AND A CHANGE IN SELF CONCEPT AMONG A GROUP OF HEROIN ADDICTS.
• CONTROL GROUP - PRETEST, (NOTHING), CLASS, POSTTEST.
• EXPERIMENTAL GROUP - PRETEST, EXPECTANCY, CLASS, POSTTEST.
LABORATORY

- STEREOTAXIC MACHINE AND ATLAS
- TYPES
  - ABLATION - VMH( OFF SWITCH), LH(ON SWITCH)
  - STIMULATION
  - CHEMICAL - DOPAMINE, SCHIZOPHRENIA
  - RECORDING - BIOFEEDBACK
BRAIN CELLS

- **GLIAL - SUPPORT**
  - REGULATE INTERNAL ENVIRONMENT
  - GROWTH AND NUTRITION
  - MYELIN SHEATH

- **NEURONS - ELECTRICAL/CHEMICAL**
  - ONE WAY FIRING
  - ALL OR NOTHING
ELECTRICAL

- DENDRITES
- AXON
- NODES OF RANVIER
- MYELIN SHEATH
- SYNAPTIC KNOB
- SYNAPSE
CHEMICAL (NEUROTRANSMITTERS)

- DOPAMINE
- NOREPINEPHRINE/GABA
- SEROTONIN
- ACETYLCHOLINE/ADRENALIN
- ENDORPHIN
- PHENYLETHYLAMINE/LIMERANCE
- OXYTOCIN
- NITRIC OXIDE/GMP
BRAIN

- CENTRAL NERVOUS SYSTEM - BRAIN/SPINAL CORD
- PERIPHERAL NERVOUS SYSTEM - ORGANS, MUSCLES, ETC.
- CORTEX (CONVOLUTED)
LOBES

- FRONTAL - PLANNING, ABSTRACT, EXPRESSIVE SPEECH, AGRESSION, SMELL
- TEMPORAL - RECEPTIVE SPEECH, AUDITORY
- PARIETAL - TASTE AND TOUCH
- OCCIPITAL - SIGHT
- CONTRA COUP
HEMISPHERES

- LEFT AND RIGHT
- ASYMMETRICAL, CONTRALATERAL
- CORPUS CALLOSUM
LEFT HEMISPHERE

- VERBAL
- MATH
- ANALYTICAL
- CONCENTRATES ON THE PARTS
- BLACK-WHITE
- DEALS IN THE PRESENT
- NON EMOTIONAL
- BORING
RIGHT HEMISPHERE

- PICTORIAL
- ABSTRACT
- BIG PICTURE - SPATIAL
- CREATIVE
- MUSICAL
- EMOTIONAL
- PAST-FUTURE
- GHOSTLY PRESENCE
SPLIT BRAIN
RAMIFICATIONS

- EPILEPSY
- COMISSIROTOMY
  - SPEECH DIFFICULTIES
  - COLOR ACCESSORIZING
BRAIN DIVISIONS

- HIND BRAIN
  - MEDULLA
  - CEREBELLUM
  - PONS
- MID BRAIN
  - LIMBIC SYSTEM
- FORE BRAIN
  - THALAMUS
  - HYPOTHALAMUS
SENSATION

- BODY PART - BRING IN STIMULI
- NEURONS - CARRY TO THE CORTEX
THE EYE

• OPTICAL
  - CORNEA (TRANSLUSCENT)
  - AQUEOUS HUMOR (GLAUCOMA)
  - IRIS
  - PUPIL
  - LENS (CATARACT)
  - CILIARY MUSCLES (NEAR\FAR SIGHTED)
NEURAL

- RETINA
- RODS
- CONES
- PURKINJIE EFFECT
- OPTIC NERVE
THE EAR

• OUTER
  - PINNA
  - EXTERNAL AUDITORY CANAL

• MIDDLE
  - TYMPANIC MEMBRANE (EARDRUM)
  - BONES - HAMMER, ANVIL, STIRRUP

• INNER
  - SEMI-CIRCULAR CANALS
  - COCHLEA
TASTE

- SWEET
- SALT
- BITTER
- SOUR
- SUPER, AVERAGE, OR NON TASTERS
- (NONTASTERS) OVEREATING, ALCOHOLISM, ETC.
SMELL - IOOOS

• NOSE
• NEURONS
  - ONE HALF IN NOSE - ONE HALF IN BULB
• OLFACTORY BULB (PROCESSING)
• BRAIN
• RELATIONSHIPS (PHEROMONES), MEMORIES
TOUCH

- HOT
- COLD
- PRESSURE
- PAIN
PERCEPTION

- DEFINITION - P = B + S
  - DECODE INCOMING STIMULI, IDENTIFY CONSISTANCIES IN THE WORLD
- VISUAL CLIFF
- ILLUSIONS
  - NOVEL ARRANGEMENT OF CUES
STATES OF CONSCIOUSNESS

- SLEEP
STAGES

• SLOW WAVE - (norepinephrine)
  - STAGE 1
  - STAGE 2
  - STAGE 3
  - STAGE 4

• REM (Paradoxical) - (serotonin)
CYCLES

- 1, 2, 3, 4
- 3, 2, 1, REM, AWAKE
- 90 MINUTE CYCLES
- REM - MINUTES
  - 8
  - 18
  - 24
  - 28
- ADOLESCENTS
DISORDERS

- SLEEP WALKING
- SLEEP TALKING
- INSOMNIA
- HYPERSOMNIA
- NIGHT TERROR
- NIGHTMARE DISORDER
MORE

- NARCOLEPSY
- APNEA
- REM SLEEP BEHAVIOR DISORDER
- SLEEP PARALYSIS
- CLONAZEPAM (ANTI-SEIZURE)
DREAMS

- DEMOGRAPHICS
- THEORIES
  - FREUD - PSYCHOANALYTIC
  - PERLS - GESTALT
  - VERTES - SURVIVAL (SIDS, ONDS)
  - WINSON - LEARNING
  - CRICK - CLEANSING
  - HOBSON - PONS (NEURONS TO CORTEX)
LEARNING

• S-R
  - STIMULUS - RESPONSE
  - IMPACT OF ENVIRONMENT ON ORGANISM

• R-S
  - RESPONSE - STIMULUS
  - IMPACT OF ORGANISM ON ENVIRONMENT
PAVLOV - CLASSICAL CONDITIONING

- CS - UCS - R
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SCHIZOKENESIS

- CS UCS R
- BEARD RAPE FEAR
- TRUCK ACCIDENT FEAR
- WEATHER WAR FEAR
CC TERMS

- CONTIGUITY
- EXTINCTION
- GENERALIZATION
- DISCRIMINATION
SKINNER - OPERANT CONDITIONING

- R-S
- REINFORCEMENT - POSITIVE OR NEGATIVE
- PUNISHMENT
- AVERSION THERAPY
MEMORY

- CORRELATION
  - RNA - PROTEIN

- TRANSFER
  - CS - UCS - R
  - LIGHT SHOCK JUMP
STAGES

- SENSORY
  - TEMPORARY
  - NOT NOVEL
  - LASTS A FEW SECONDS
SHORT TERM

- ELECTRICAL
- 30 SECONDS
- LIMITED CAPACITY
- HOLDS 7 PLUS OR MINUS 2
- HIPPOCAMPUS
- EASY TO RETRIEVE
- AMPAKINE CX-516

- IMPROVES GLUTAMATE RECEPTORS
LONG TERM

- CHEMICAL - (ASCETYLCHOLINE)
- NO SPECIFIC LOCATION
  - DIFFUSE
- MASSIVE CAPACITY
- LASTS FOREVER
- DIFFICULT TO RETRIEVE
- PTSD - ADRENALIN
MNEMONICS

- CONNECT WITH LTM
- MAKE INFO NOVEL
THEORIES OF FORGETTING

- TRACE - DECAY
- INTERFERENCE
- DISPLACEMENT
- FREUD
MOTIVATION

- HOMEOSTATIS - DEFINITION
- HYPOTHALAMUS -
  - OFF SWITCH, VENTRAL / MEDIAL
  - ON SWITCH, LATERAL
HUNGER (HYPERPHAGIA, APHAGIA)

- THEORIES
  - STOMACH CONTRACTION
  - ENVIRONMENTAL
  - LIPOSTATIC
  - GLUCOSTATIC
  - CCK THEORY - CHOLECYSTOKININ
  - LEPTIN PRODUCES OREXINS - REGULATE APPETITE
  - PROTEIN - UCP2 (CONVERTS FOOD TO ENERGY, NOT FAT)
THIRST - (HYPERDYPSIA, ADYPSIA)

- OSMOTIC CELLS (INTERCELLULAR)
- VOLEMIC CELLS (EXTRACELLULAR)
EMOTION

- JAMES-LANG
  - STIMULUS, THALAMUS, HYPOTHALAMUS, PHYSICAL, CORTEX

- CANNON-BARD
  - STIMULUS, THALAMUS, HYPOTHALAMUS AND CORTEX, PHYSICAL
SELYE

- DEFINITION
- LCU
- STAGES
  - ALARM
  - RESISTANCE
  - EXHAUSTION
LANGUAGE

- PSYCHOLINGUISTICS
- SCIENTIFIC - ALL CHILDREN
- SPECIAL CHILDREN - AUTISTIC, MENTALLY CHALLENGED, HEARING IMPAIRED
STAGES - INSTINCT

- CRYING - BIRTH TO 3 WEEKS
- COOING - 3 WEEKS TO 4 MONTHS
- BABBLING - 4-6 MONTHS TO 1 YEAR
- CASES - ANNA, ISABELLE, GENIE, NELL
- IDIOGLOSSIA
STAGES - ENVIRONMENT

- PSEUDOCRIES (6 MOS.) - ECHOLALIA (8 MOS.)
- FIRST WORD - 12 MONTHS
- FIRST 2-WORD SENTENCE - 18 MONTHS
- 50 WORDS - 24 MONTHS
- 1000 WORDS - 36 MONTHS
- STUTTERING
PERSONALITY DEVELOPMENT

- PRENATAL
- INFANCY
- CHILDHOOD
- ADOLESCENCE
- ADULTHOOD
FREUD - PSYCHOSEXUAL

- UNCONSCIOUS, REPRESSED CHILDHOOD EVENTS
- FIXATION - LIBIDO
- STAGES
  - ORAL, BIRTH TO ONE YEAR
  - ANAL, 1-3
  - PHALLIC, OEDIPAL 3-5
  - LATENCY, HOMOSOCIAL 5-12
  - GENITAL, 12-18
PERSONALITY SEGMENTS

- ID
- EGO
- SUPEREGO
DEFENSE MECHANISMS

- DENIAL
- REPRESSION
- REGRESSION
- REACTION FORMATION
- DISPLACEMENT
- RATIONALIZATION
ERIKSON - PSYCHOSOCIAL

- TRUST V. MISTRUST - BIRTH TO 1
- AUTONOMY VS. DOUBT 1-3
- INITIATIVE V. GUILT 3-5
- INDUSTRY V. INFERIORITY 5-10
- IDENTITY V. IDENTITY CONFUSION
- INTIMACY V. ISOLATION
- GENERATIVITY V. STAGNATION
- INTEGRITY V. DISPAIR
Piaget - Cognitive

- **Assimilation and Accommodation**
- **Sensorimotor, Birth to 2 Years**
  - Object Recognition, Control, Permanency
- **Preoperational, 2-7 Years**
  - Symbolic, Animism, Egocentrism, Conservation
PIAGET

- CONCRETE, 7-12 YEARS
- FORMAL, ADOLESCENCE - 12 AND UP
  - ABSTRACT THINKING
KOHLBERG - MORAL

- PUNISHMENT
- REWARD
- GOOD/BAD GIRL - GOOD/BAD BOY
- AUTHORITY ORIENTATION
- INDIVIDUAL PRINCIPLES
- UNIVERSAL PRINCIPLES
MASLOW - HUMANISTIC

- INDIVIDUAL, MAXIMUM POTENTIAL
- HIERARCHY OF NEEDS
  - PHYSICAL, SAFETY, LOVE, SELF ESTEEM, SELF ACTUALIZATION
GOULD - TRANSFORMATIONS

• DIALECTICAL PULL
• 15-18 - ESCAPE PARENT CONTROL
• 18-22 - INDEPENDENCE
• 22-28 - MARRIAGE - OCCUPATION
• 28-36 - GIVE UP UNHEALTHY ROLES
• 36-45 - URGENCY TO ATTAIN GOALS
• 45-55 - ACCEPT ONE'S LIFE
• 55-? - MELLOWING
SHEEY - NEW PASSAGES

- TRYOUT 20’S
- TURBULANT 30’S
  - JUGGLE HOME, CAREER, CHILDREN
- FLORISHING 40’S
  - MEANING CRISIS, QUESTIONING DECISIONS
- PASSIONATE 50’S
  - CHASING ONES VALUES
- FUN 60’ AND 70’S
PRE-NATAL STAGE

- INTERNAL STRUCTURES
- GENETIC ABNORMALITIES
- ENVIRONMENTAL INFLUENCES
- TESTS
ROSS - DEATH AND DYING

- Denial
- Anger
- Bargain
- Mourning
- Acceptance
SOCIAL PSYCHOLOGY

- DEFINITION
- KITTY CASE
- ATTRIBUTION THEORY
  - SELF, EXTERNAL AND SITUATIONAL
  - OTHERS, INTERNAL AND DISPOSITIONAL
ABNORMAL

- DSM IV
- NEUROSES
- PERSONALITY DISORDERS
- PSYCHOSES
FUNCTIONAL DISORDERS

- EGO-DYSTONIC
- ANXIETY - DEPRESSION - ANGER
- STATES
- ANXIETY DISORDERS
  - OCD
  - PANIC DISORDER
  - PHOBIAS (AGORA, SOCIAL, SIMPLE)
  - GENERALIZED ANXIETY
  - PTSD
MORE

- SOMATAFORM
  - HYPOCHONDRIASIS
  - SOMATIZATION
  - BODY DISMORPHIC

- DISSOCIATIVE
  - AMNESIA
  - MPD (DID)
PERSONALITY DISORDERS

- EGOSYNTONIC
- TRAITS
- PARANOID
- ANTISOCIAL
- HISTRIONIC
- NARCISSISTIC
- BORDERLINE
PSYCHOSIS

- SCHIZOPHRENIA
  - DELUSIONS, HALLUCINATIONS
- BRIEF PSYCHOTIC REACTION