

N13

505 Internal satisfactions include gratification transcendent
& mere reduction of appetite. Curiosity,
inquiry, freedom

"Positive features of satisfaction enable humans
& sustain unbearable privations & yet to cling to
life, as, beyond, that, & attach importance to beliefs
that may surpass the values of life itself."

505 positive - negative reinforcement.

505. estimation of cortex tied with positive or negative
reinforcement - there is different systems can be used
as a signal transmission system, but not as direct
systems for motivation & reinforcement.

507 Reticular formation . . . provides general control
function.

507 Brain stem reticular formation can activate cortex in an
on-off, general, diffusely projecting manner but only
limited areas of cortex affect reticular formation.

508 Limbic system ← frontal lobes
↓
reticular for

Limbic system - frontal lobe function as one system,
responsible for intrinsic feeling states, source of
("where I live in") emotion.

508 "During the last decade it has become evident that
sensory mechanisms are likewise controlled by
a centralized hierarchy of controls."

509 Brain controls external traffic in part that enters & leaves
the nervous system.

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Livingston Brain Circuitry Relating to Complex Behavior.

500. Evolved elaborate organ systems appetites not only for adjustment but for extra demands that go beyond behavior more general.

500. feelings refer to position of, creative expression.

500. peculiarities of human brain.

500. Herrick: man's ability for intelligent & directed self-development.

501. nervous system at birth. - equipped with mechanism for survival.

501. " " is a source of activity as well as for integration.

501. learning: stimulus becomes important only when Nerv. syst. part properly prepared.

501. Brain is in direct contact with rest of body at birth. Brain development occurs.

501. Brain 2% of body weight - 20% of body's oxygen at rest, more than any muscle.

502. during first few months of life brain circuits are as motile as in optically noticeable cellular details.

502. " A priority of physiological goals involves control of respiration, temperature & regulation of water balance, nutrition, provision of sleep - in that order - as other goals relating to sex, esthetic, curiosity, novelty as freedom, absence of restraint. Unmet needs challenge the priorities of all other goals. At any instant our behavior exhibits the result of a flux of goals purposes, held in proportional balance by social pattern for eating, sleeping, work, recreation, & privacy."

Livingston, Brain Circuitry.

502 Neurons continue to be biologically & electrically active in tissue culture.

502 Nervous system is built for action rather than for reaction
During life patterns of actions are generated
& controlled acc. to the internal state of the nervous system
& are only modulated by sensory input.

502 Emotion for ex-motum (Jakobson) = motion out from
& reflecting in a state

502 Motor systems of all Jakobson cells visceration
are continuously active.

502 Our sensory systems are similarly goal seeking in their
organization as the motor system

502/1 Perception, as well as motor skills become organized
(according to past experience, expectations & purposes.
[programming!])

502. The so far homo sapiens - more than homo sapiens.
may, with help of machines - may augment his
more thought dependent & creative pursuits.

502. Let mind originate for internal experience of feelings.
Feelings stem from most peripheral & most
central mechanisms. The I love it that part of brain
This is source of our appetites & satisfactions.
Feeling provides our last conscious men.

502 Living Jr. Control: Knowledge, skill, conscience, desire &

502. This in a most compact form includes: [Feeling
: Limbic / ventricular system
Hypothalamus
central gray matter / brain stem
flow of fourth ventricle

502 feeling, provide the go/no go switch for all behavior.



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Livingston, Brain Circuitry

505 Nucleus:

1. limbic system (lateral temporal portion = zone of instinctive
(self-protection, territoriality, food, sex, swallow)...))

2. medial system in the mesencephalon & septal region = survival of species.

(senses) = processing of food for milk

see??

(food program), hearing, nursing...

505 in mistaken idea of conflict as chief fulcrum around
which survival is determined on the basis of
3 mutually reinforcing ideas: misconstrued by
the Darwin, Marx, Freud.

[in animals = basic tendency for harmony &
injection of overcoming of conflict.

what was the struggle as prehistory.

not present in early past not in future.]

biol., social & psychol. evidence show that conflict
may help the story. - Conflicts are built in nervous
system; 3rd biological mechanism are also
built in the nervous system. Their existence is

|| aboriginal system indispensable for survival; also
mechanisms for biology in the legends, cooperation,
faith, mutual trust & attraction.

505 "Man in his many other forms of life could not
survive & simple functions of cooperative behavior
were not propelled by instinctual satisfactions affecting
food activities."

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Livingston Brain Circuitry.

8.

510/ Conditions for full consciousness:
reticular formation active
syntactic hubic etc system
(neo cortex), least important.

513 6m experience circumscribed, even on 8 month previous
experience.

neurosystem connected, no appropriate reaction to
novelty

prejudices / some purpose - during part of first term.

513/ description of intrinsically bound perception.

(social character!)

discrimination of novelty (later) basis for learning.
(Ames)

no learning without:

1) exposure to novel situation

2) in ability / need. syst. to form a novel

circumstance in conformity with past experience,
expectation & purposes.

514/ " Education of science are both by language &
experience in the recognition of novelty.

514/ Common sense can be defined as behavior is known
before the age of about 12. [??]

define it not in terms of knowledge but
in terms of depth!

Livingston Brain Circuits

514. What happens within the nervous system during recognition of novelty?

1) retic-reticular form strongly activated

(may secret many or leaving one boundary all hierarchical processes of sensory input) (made to us known)

2) generalized arousal, preparation for action for incoming signals,

3) ventricular system a front-back system apparently operates & defines the potentialities of neural circuit for present or potential

relates to individual & species survival!

measure in the event biologically significant.

4) limbic outflow discharges in a special region of the reticular formation.

preparation of system?

514/5 5th consequence of this discharge pattern: "it's not faint!" only for all neurons recently activated & undergo with

515. "The sensory, sensorimotor or related signal sequences will become incorporated into circuitry, presumably as pathways of molecular activation & local synaptic growth."

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