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International Symposium: Reticular Formation Of The Brain

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INTERNATIONAL SYMPOSIUM

RETICULAR FORMATION OF THE BRAIN

March 14, 15, 16, 1957

The professional staff of the Henry Ford Hospital with the initial advice and support of the Board of Trustees and Dr. Robin C. Buerki, Executive Director, of the Henry Ford Hospital, is sponsoring an international symposium on the subject Reticular Formation of the Brain. This symposium will be held at the Henry Ford Hospital, March 14, 15, and 16, 1957, in the Clinic Auditorium. The preliminary program follows and has been prepared with the help of the advisory members:

PROGRAM COMMITTEE

Advisory Members:

Chairman
Horace W. Magoun

Department of Anatomy, Medical School University of California, Los Angeles, California.

J. Douglas French
Veterans Administration, Long Beach, California.

Herbert H. Jasper
Montreal Neurological Institute, Montreal, Quebec.

Russell N. DeJong
Department of Neurology, University of Michigan, Ann Arbor, Michigan.

Ralph W. Gerard
Mental Health Institute, University of Michigan, Ann Arbor, Michigan.

Arthur A. Ward, Jr.
School of Medicine, University of Washington, Seattle, Washington.

LOCAL MEMBERS

Co-Chairmen
Robert S. Knighton
Division of Neurosurgery, Henry Ford Hospital.

Lorne D. Proctor
Division of Neurology and Psychiatry, Henry Ford Hospital.

Secretary
William C. Noshay
Section of Neurology, Henry Ford Hospital.

Russell T. Costello
Department of Medicine (Neurology), Wayne University, Detroit, Michigan.

PRELIMINARY PROGRAM

Thursday Morning Session I 9:00 — 12:30 P.M.

8:30 A.M. Remarks of Welcome

Robin C. Buerki, Executive Director, Henry Ford Hospital.

Chairman: Herbert H. Jasper, Montreal, Canada.
International Symposium

The Neuroanatomy of the Reticular Formation

9:00 Some Ascending Pathways from the Brain Stem Reticular Formation
Walle J. H. Nauta, Washington, D. C.
Co-Author: H. G. J. M. Kuypers, Baltimore, Maryland.

9:30 Substrates for Integrative Mechanisms in the Brain Stem Reticular Core
Arnold B. Scheibel
Co-Author: Madge Scheibel, Los Angeles, California.

10:00 Discussion Designated
Jerzy Olszewski, Montreal, Quebec.

10:30 Intermission

The Physiology of the Reticular Formation

INTRINSIC EFFECTS OF RETICULAR FORMATION

10:45 Temporal Patterns of Discharge in Individual Reticular and Cortical Neurons
V. E. Amassian, Seattle, Washington

11:00 Discussion Designated
Horace W. Magoun

EFFECT OF ANAESTHETICS AND 'TRANQUILLIZING' DRUGS

11:15 Drug Action on Pathways Involving the Reticular Formation
Keith F. Killam, Los Angeles, California.

11:30 The Central Action of Certain Drugs in Relation to the Reticular Formation of the Brain

ELECTROENCEPHALOGRAPHY

11:45 Studies of Evoked Potentials in Man and Cat
Mary A. B. Brazier, Boston, Massachusetts.

12:05 Discussion Designated
Harold Himwich

12:30 Luncheon

THURSDAY AFTERNOON SESSION
2:00 — 5:00 P. M.

Chairman: Russell N. DeJong, Ann Arbor, Michigan

The Physiology of the Reticular Formation

AFFERENT INPUT

2:00 Central Control of Afferent Activity
Robert B. Livingston, Bethesda, Maryland.

2:30 The Relation Between Spinoreticular and Ascending Cephalic Systems
James L. O'Leary, St. Louis, Missouri.
Reticular Formation of the Brain

3:00 Discussion Designated
John D. French, Long Beach, California.
Chairman: Ralph W. Gerard, Ann Arbor, Michigan.

NEUROENDOCRINE ASPECTS OF RETICULAR FORMATION

3:45 The Reticular Formation, Stress and Endocrine Activity

4:15 Activation and Blockade of the Release of Pituitary Gonadotrophin as
influenced by the Reticular Formation
Charles H. Sawyer, Los Angeles, California.

4:30 Hypothalamic Localization for the Control of Various Endocrine
Secretions
David M. Hume, Richmond, Virginia.

4:45 Discussion Designated
Robert W. Porter, Washington, D. C.

6:30 Buffet Dinner
The Development of Ideas Relating the Mind with the Brain
Horace W. Magoun, Los Angeles, California.

FRIDAY MORNING SESSION
9:00 — 12:30 P. M.
Chairman: John D. French, Long Beach, California

SPINAL MECHANISMS

9:00 Efferent Functions of the Reticular Formation

9:30 Relations of the Reticular Formation to Muscle Spindle Excitation
Earl Eldred, Los Angeles, California.

9:45 A Pharmacological Analysis of Some Reticular and Spinal Cord Systems
Edward F. Domino, Ann Arbor, Michigan.

10:00 Discussion Designated

10:30 Intermission

ASCENDING TRACTS AND THEIR CEPHALIC INFLUENCE

10:40 Action of the Reticular System on Cerebral Cortex
Herbert H. Jasper, Montreal, Canada.

11:00 Enduring Potential Changes Associated with Stimulation of Brain Stem
and Thalamus
A. Arduini, Pisa, Italy.
International Symposium

11:20 Discussion Designated
Henri Gastaut, Marseilles, France.

11:35 Humoral Affects on the Brain Stem Reticular Formation
Paul Dell, Paris, France.

11:55 Cortical Excitability and Cortical Circulatory Homeostasis
David H. Ingvar, Stockholm, Sweden.

12:15 Discussion Designated
Robert Livingston, Bethesda, Maryland.

12:30 LUNCHEON

FRIDAY AFTERNOON SESSION
1:45 — 5:30 P. M.
Chairman: Arthur A. Ward, Seattle, Washington

The Physiology of the Reticular Formation

NEOCORTEX-INTRINSIC CORTICAL
1:45 The Place of Cortex in the Reticular System
George H. Bishop, St. Louis, Missouri.

2:05 Coordination of Specific and Unspecific Afferent Impulses at Single
Neurons of the Visual Cortex
R. Jung, Freiburg, Germany.

2:25 Organization of Excitatory and Inhibitory Synaptic Electrogenesis in the
Cerebral Cortex
Dominick P. Purpura, New York City, N. Y.

2:45 Activity of Inter-neurones in the Neocortex
Choh-Lu Li, Bethesda, Maryland.

NEOCORTEX-CORTICIFUGAL
3:00 Cortical Influences Upon Function of Reticular Formation
John D. French, Long Beach, California.

3:25 Discussion Designated
Herbert Jasper, Montreal, Canada, Harry Grundfest, New York N. Y.

3:45 Intermission

NEOCORTEX-CONDITIONED LEARNING
4:00 The Reticular System and Perceptual Discrimination
Donald B. Lindsley, Los Angeles, California.

4:20 Modification of Learning by Lesions and Stimulation in the Diencephalon
and Related Structures
W. R. Ingram, Iowa City, Iowa.
Reticular Formation of the Brain

4:40 Some Electrical Events Involved in the Formation of Temporary Connections
Frank Morrell, Minneapolis, Minnesota.

5:00 Role of Reticular Formation in Acquisition of Conditioned Behavior
Henri Gastaut, Marseilles, France.

5:20 Discussion Designated
Helen Mahut, Montreal, Quebec.

7:00 BANQUET
The Dawn of Medicine
Wilder Penfield, Montreal, Canada.

SATURDAY MORNING SESSION
9:00 — 12:30 P. M.
Chairman: Horace W. Magoun, Los Angeles, California

The Physiology of the Reticular Formation
LIMBIC SYSTEM AND HYPOTHALAMUS

9:00 The Function of the Reticular Formation and its Related Systems
John D. Green, Los Angeles, California.

9:20 Organization of the Rhinencephalon
Ross W. Adey, Victoria, Australia.

9:40 Central Nervous System Regulation of ACTH Secretion
John W. Mason, Washington, D.C.

10:00 Discussion Designated
Peter Gloor, Montreal, Canada.

10:30 Intermission

Psychological Actions, Drive and Reward Concepts — Auto Stimulation

11:00 Self Stimulation Experiments and Differentiated Reward Systems
James Olds, Los Angeles, California.

11:20 Temporal and Emotional Factors Related to Electrical Self Stimulation
of the Limbic System
J. V. Brady, Washington, D.C.

11:40 Primary Emotional States Induced by Subcortical Electrical Stimulation
in the Brain as Opposed to "Sham Emotions" (Ransom Bard) or
"Pseudo-affective" (Masserman) states
John C. Lilly, Bethesda, Maryland.

12:00 Discussion Designated
Seth Sharpless, New Haven, Connecticut.
International Symposium

12:30

LUNCHEON

SATURDAY AFTERNOON SESSION

2:00 — 4:00 P. M.

Chairman: Henri Gastaut, Marseilles, France

2:00 Behavior and Consciousness as Related to the Reticular Formation

2:40 Discussion Designated
   Wilder G. Penfield

3:00 FINAL SUMMARY
   Ralph W. Gerard, Ann Arbor, Michigan.