

October 9, 1967

Dr. Antoine Remond
Hôpital de la Salpêtrière
47, Boulevard de l'Hôpital
75-Paris (13^e) - France

Dear Dr. Remond:

I reply to your letter of October 3, regarding an International Course on the occasion of the next International EEG Meeting, I am pleased to send you my suggestions for the titles I would choose for the sections of a modern book on EEG. Incidentally, I enjoyed this exercise for it forced me to think of our field in very general terms.

I trust these are helpful and you may be assured of the collaboration and support of the members of my laboratory in your efforts.

Sincerely yours,

Max Fink, M.D.
Professor of Psychiatry

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SUGGESTED TOPICS FOR COURSE OR TEXTBOOK OF EEG

From: Max Fink, M.D.
Professor of Psychiatry, New York Medical College, U.S.A.

Hours

- 1 1. History of EEG
Theory of Etiology of Signals

- 3 2. Technical Aspects
 - a) Recording methods
Amplifiers
Noise vs. Signal
 - b) Analysis Methods
 1. Visual - pattern, frequency
 2. Electronic
Amplitude integration
Frequency integration
Pattern - Filters
 3. Digital Computer
Power spectral density
Period Analysis
Amplitude
Pattern
Spike Counts
Sleep
 4. Special Devices
Averaging Computers
Toposcope
Source-Sink Maps

- 2 3. Neurophysiological Bases
 - a) Single cell and axonal data
 - b) arousal mechanisms
 - c) Depth recording data in man
 - d) Biochemical changes
 1. Oxygen
 2. Acid-base
 3. Glucose
 4. Salts

4. EEG and Function
 - a) Alteration with altered consciousness
 - 1 Alertness, Sleep
 - 1 Orientation
 - 1 Delirium, Confusion
 - 1 Attention, Preparation, Set

Hours

- b) Alteration with "Structural" Change
 - 1 1. Seizures
 - 1 2. Focal lesions (tumor)
 - 1 3. Trauma

- c) Alteration with Exogenous Toxics
 - 1 1. Alcohol, narcotics, anti-narcotics
 - 2 2. Psychopharmaceuticals
 - a) Tranquillizers
 - b) Hallucinogens
 - c) Sedatives
 - d) Others

- d) Alterations with physiology
 - 1 1. Menstruation
 - 2 2. Sleep cycles

- 5. Clinical Applications
 - 1 a) Use in Epilepsy
 - 1 b) Use in neurology-neurosurgery
 - 1 c) Use in clinical psychiatry
 - 1. Diagnosis - "Functional EEG"

- 6. Developmental Aspects
 - 2 a) Development with age in man
 - 1. General aspects - special wave forms
 - 2. Areal differences

 - 1 b) Comparison among species
 - 1. Variations in pattern in relation to specie's heirarchy.
 - 2. Differences in drug response among species.