

for informal discussions, laboratory inspections, and sight-seeing and recreation.

While the program is not yet complete, the following papers have already been scheduled:

Monday, July 17: *Quantitative Spectroscopic Analysis of Materials*

C. C. Nitchie, Bausch and Lomb Optical Company, "Some Practical Applications of the Spectrograph."

W. F. Meggers, Bureau of Standards, "The Physical Basis for Quantitative Spectrochemical Analysis."

F. Twyman, Adam Hilger, Ltd., "The Rôle of the Instrument Maker in Spectrum Analysis."

C. E. K. Mees, Eastman Kodak Company, "Photographic Plates for Spectroscopy."

Keivin Burns, Allegheny Observatory, leader of Discussion on Spectrochemical Analysis.

Tuesday, July 18: *Biological and Photochemical Applications of Spectroscopy*

W. A. Noyes, Jr., Brown University, "The Correlation of Research in Spectroscopy with that of Photochemistry."

P. A. Leighton, Stanford University, "Photochemistry and the Schumann Region."

F. Twyman, Adam Hilger, Ltd., "Basic Principles in the Design of Spectrophotometers."

G. B. Kistiakowsky, Harvard University, "Molecular Dissociation Energies from Spectroscopic Data."

Wednesday, July 19: *Physical and Astrophysical Aspects of Spectroscopy*

D. H. Menzel, Harvard University, "The Spectroscopy in Astrophysics."

G. H. Dieke, The Johns Hopkins University, "Astigmatism of the Concave Grating."

F. H. Crawford, Harvard University, "The Present Status of Research on the Zeeman Effect in Molecular Spectra."

Thursday, July 20: *Analysis of Complex Spectra*

A. G. Shenstone, Princeton University, "Incompletely Analyzed Spectra."

W. F. Meggers, Bureau of Standards, "The Structure of Rare Earth Spectra."

G. H. Dieke, The Johns Hopkins University, "The Present Status of Wave-length Standards."

Keivin Burns, Allegheny Observatory, "Wave-length Standards."

Friday, July 21: *Spectroscopy and Atomic Structure*

(To be arranged), "Status of Theoretical Calculations of Atomic Energy States."

G. R. Harrison, Massachusetts Institute of Technology, "Status of Calculations of Spectral Line Intensities."

D. R. Hartree, University of Manchester, "Numerical Calculation of Atomic Properties."

J. C. Slater, Massachusetts Institute of Technology, "Analytical Calculations of Atomic Properties."

A number of other papers which have been tentatively scheduled are not listed because of uncertainties

which had not been cleared up at the time of going to press. It is planned to follow each set of papers by extended discussion of the present status and future possibilities of each branch of spectroscopy considered.

PSYCHOLOGY AT CHICAGO

MEMBERS of Section I of the American Association for the Advancement of Science will meet in Chicago from June 20 to 23, in connection with the Century of Progress. Four psychologists from abroad will be present. Each of these will lead a symposium and in addition special lectures are scheduled. American psychologists will also participate in the symposia, the topics and leaders of which are as follows:

June 20, "Gestalt": Wolfgang Köhler, Berlin.

June 21, "Intelligence": Charles E. Spearman, London.

June 22, "Sensory Psychology": Henri Piéron, Paris.

June 23, "Character and Personality": Emilio Mira, Barcelona.

In addition to regular sessions the special symposia and lectures given in other sections of the association are of interest to psychologists. For example, the following may be mentioned:

June 20, forenoon, Dr. A. V. Hill, London, Symposium on Nerve Activity.

June 21, afternoon, Dr. R. Goldschmidt, Institute of Experimental Biology, Berlin, Symposium.

June 23, evening, Dr. C. U. A. Kappers, Brain Institute, Amsterdam, General Address.

The preliminary program follows:

Tuesday, June 20, 2:00 P. M. Symposium on Gestalt Psychology: Wolfgang Köhler, Berlin; R. H. Wheeler, University of Kansas; Heinrich Klüver, Institute for Juvenile Research.

Wednesday, June 21, 9:30 A. M. Symposium on Intelligence: Charles E. Spearman, University of London; Florence L. Goodenough, University of Minnesota. 11:30 A. M. Address: Henri Piéron, Paris.

Thursday, June 22, 9:30 A. M. Symposium on Sensory Psychology: Henri Piéron, Paris; Walter R. Miles, Yale University; Alvhh R. Lauer, Iowa State College. 11:30 A. M. Address: Emilio Mira, Barcelona.

Friday, June 23, 9:30 A. M. Symposium on Character and Personality: Emilio Mira, Barcelona; Mandel Sherman, University of Chicago; John E. Anderson, University of Minnesota.

Saturday, June 24, 8:00 P. M. General Address before the Association: Charles E. Spearman, University of London.

Dr. Walter R. Miles, of Yale University, is chairman of the section and Dr. John E. Anderson, of the University of Minnesota, is secretary. The meetings will be held in Thorne Hall and Lincoln Hall, McKinlock Campus, Northwestern University.