

Early and Late Adult Life;" Roy G. Hoskins, "Physiological and Endocrinological Aspects of Aging."

August 10: Chemistry and Metabolism of Polysaccharides: Ralph W. Kerr, "The Action of Amylases on Starch;" Walter Lyon Bloom, "The Intravenous Injection of Polysaccharides."

August 12: Public lecture, 8:00 P.M. Subject and speaker to be announced.

VITAMINS AND METABOLISM

(Preliminary)

W. J. Darby, *Chairman*; Gladys A. Emerson, *Vice Chairman*

August 13: A. F. Morgan, "Adrenal, Pantothenic Acid, and Riboflavin Relationships;" Roy Hertz, "The Endocrine Aspects of the Avidin-Biotin Problems;" Charles May, "Relationship of Ascorbic Acid to Metabolism of Folic Acid;" J. H. Burchenal, "Studies of Aminopterin and Citrovorum Factor in the Human."

August 14: Ezra Greenspan and E. B. Schoenbach, "Aminopterin and Citrovorum Formation;" Vincent du Vigneaud, "Transmethylation and Biological Synthesis of Labile Methyl Groups;" D. B. Sprinson, "Some Aspects of the Formation of Methyl Groups."

August 15: J. Loosli, "Role of Vitamin B₁₂ and Cobalt in Ruminants;" E. E. Bartley, "Antibiotics in Calf Nutrition;" F. Lipmann, "Chemistry of Coenzyme A;" V. H. Cheldelin and T. E. King, "Chemistry of Bound Pantothenic Acid."

August 16: E. E. Snell, "Purification, Synthesis and Biological Activity of Pantethine and Related Forms of the *Lactobacillus bulgaricus* Factor;" F. C. Steward, "Coconut Milk Factor;" Mary Quaife and P. L. Harris, "Vitamin E in Relation to Acute Physiologic Stress."

August 17: R. W. Vilter, "Desoxyripyridoxine-induced Pyridoxine Deficiency in Man;" J. F. Rinehart, "Pathology of Pyridoxine Deficiency."

August 19: Public lecture, 8:00 P.M. Subject and speaker to be announced.

MEDICINAL CHEMISTRY

Otto K. Behrens, *Chairman*; C. A. Winter, *Vice Chairman*

August 20: Robert E. Olson, "The Enzymology of the Normal and Failing Heart;" Rene Wegria, "Pharmacology of Coronary Drugs;" Robert W. Wilkins, "Etiology of Hypertension: A Survey of Current Theories;" George A. Perera, "Criteria for Evaluation of Hypertensive Vascular Disease and its Treatment."

August 21: Josef Fried, "The Chemistry of the Veratrum Alkaloids;" Selby B. Davis, "Control of Renal Blood Flow: An Approach to the Chemotherapy of Hypertension;" Mark Nickerson, "The Pharmacology of Antihypertensive Drugs;" W. C. Hueper, "The Etiologic Factors and Causative Mechanisms in Arteriosclerosis."

August 22: John W. Gofman and Frank Lindgren, "The Role of Lipoproteins in Atherosclerosis with Comments on the Effect of Diet and Various Drug Agents on the Blood Lipoprotein Levels;" Julius Pomeranze, "The Effect of Therapeutic Agents on Serum Lipids and Atherosclerosis;" Karl H. Beyer, "The Relationship of Structure to the Inhibitory Effects of Compounds on Renal Transport Mechanisms;" William P. Boger, "Clinical Status of Agents Influencing Conjugative Mechanisms and Renal Tubular Secretion."

August 23: Klaus R. Unna, "Recent Advances in the Pharmacology of the Myoneural Junction;" Arthur P. Richardson, "The Pharmacology of Drugs Affecting Synaptic Transmission;" Alfred E. Wilhelmi, "Chemical Investigations on the Anterior Pituitary;" Vincent du Vigneaud, "Chemical Investigations on the Posterior Pituitary."

August 24: William J. Haines, "Studies on the Biosynthesis of Adrenal Cortex Hormones;" W. W. Umbreit, "Relation of the Adrenal Cortex to Tissue Enzymes, with Special Reference to Cortisone."

CANCER

M. J. Shear, *Chairman*; G. B. Mider, *Vice Chairman*

August 27-31: General subjects: Components of Tumor Cells, Mechanism of Tumor Genesis, Progress in Chemotherapy, Polysaccharides.

(Speakers and detailed program will be announced later.)

PROGRAM AT NEW HAMPTON SCHOOL²

ORGANIC COATINGS

R. H. Kienle, *Chairman*; R. W. Quarles, *Vice Chairman*

June 18: G. M. Powell, "Coatings from Organosol and Plastisol Dispersions;" D. Todd, "Some Rheological Aspects of Vinyl Plastics."

June 19: O. R. McIntire, "Coatings Properties of Synthetic Lattices;" W. Bosch, "Coatings from Styrene-Butadiene-Drying Oil Emulsions."

June 20: J. D. Ferry, "Properties of Films and Coatings of Biological Origin;" R. Grinsfelder, "Strength of Surface Coatings."

June 21: T. W. Dakin, "Electrical Measurements of Organic Films and Their Interpretation;" S. Gusman, "Studies of the Mechanism of Crater Formation in Baked Surface Coatings."

June 22: S. W. Reinhart, "Theories of Adhesion."

COAL

George D. Creelman, *Chairman*

June 25-29: Fundamental Research on Composition, Properties, and Reactions.

(Speakers and detailed program will be announced later.)

MICROBIOLOGICAL DETERIORATION

J. Leutritz, *Chairman*; G. A. Greathouse, *Vice Chairman*

July 2: Wood and Paper.

July 3: Textiles and Cordage; Leather; Lacquers, Paints and Varnishes.

July 4: Rubber, Resins, Plastics, Waxes, etc.; Chemical Constitution and Biological Effect.

July 5: Organisms and their Metabolism; Preservatives and Fungicides.

July 6: Round-table discussion on Government Specifications for Fungus and Moisture Proofing.

(Speakers and detailed program will be announced later.)

² Conference programs that are incomplete in this announcement may be obtained from the Director, University of Rhode Island, Kingston, R. I.

CHEMISTRY AND PHYSICS OF METALS

Carl Wagner, *Chairman*; Rudolph Speiser,
Vice Chairman

July 9: F. O. Koenig, "Some General Features of the Thermodynamics of Surface Layers;" J. G. Kirkwood and F. P. Buff, "The Statistical Mechanical Theory of Surface Tension;" H. Udin, "Surface Energy of Solid Metals;" C. J. Calbick, "The Exploration of the Structure of Surfaces and Interfaces with the Aid of the Electron Microscope."

July 10: C. Herring, "The Atomistic Theory of Metallic Surfaces;" L. Apker, "Photoelectric Emission from Solid Surfaces;" R. E. Hoffman, "Surface Diffusion;" A. T. Gwathmey, "Study of Surface Chemistry with the Aid of Single Crystals."

July 11: G. Halsey, "Adsorption on Metallic Surfaces;" A. Wheeler, "Chemical Reactions on Metallic Surfaces;" R. Gomer, "The Kinetics of Nickel Carbonyl Formation;" G. Derge, "Reaction Mechanism at Liquid Slag Iron Interfaces."

July 12: D. C. Grahame, "The Role of Cations and Anions in the Electrolytic Double Layer;" M. T. Simnad, "Local Cell Action and Surface Reactions of Metals in Solutions;" R. L. Fullman, "Interface Energy of Metals."

July 13: D. Turnbull, "Nucleation and Crystal Growth."

ION EXCHANGE

F. C. Nachod, *Chairman*; K. A. Kraus,
Vice Chairman

July 16: R. Wheaton, R. Kunin, W. P. Utermohlen, E. B. Tooper, T. R. E. Kressman, and B. N. Dickinson—Round-table discussion on New Ion Exchange Materials, Techniques, and Properties; K. W. Pepper and T. R. E. Kressman, "Ion Exchange Work in Great Britain."

July 17: J. Khym and J. Schubert, "Biological and Medical Applications;" E. W. McChesney and G. J. Martin, "Biological and Medical Applications."

July 18: G. Scatchard and T. Vermeulen, "Exchange Theory (Thermodynamics, Kinetics);" H. F. Walton and K. A. Kraus, "Exchange with Complex Ions and Anion Separations."

July 19: T. Vermeulen and E. R. Gilliland, "Design and Engineering;" W. Juda, T. R. E. Kressman, and K. W. Pepper, "Membranes."

July 20: H. H. Strain, "Ion Migration in Chromatographic Systems."

STATISTICS IN CHEMISTRY

Hugh M. Smallwood, *Chairman*; John W. Tukey,
Vice Chairman

July 23: Statistics in Analytical Chemistry: Grant Wermimont, Discussion; James A. Mitchell, "Control of Accuracy and Precision of Industrial Tests and Analyses;" John Mandel, "Design of Experimental Work to Develop Analytical Methods;" Joseph Geffner, "Evaluation of the Elementary Causes of Deviations in Spectrochemical Analyses;" Marion M. Sandomire, "Standardization of Test Methods through Inter-Laboratory Tests."

July 24: Role of Statistics in Chemistry: John W. Tukey, Discussion; George Kimball, "Introductory Principles;" William G. Cochran, "Comparative Experimentation;" Subject and speaker to be announced; John W. Tukey, "Empirical Knowledge vs. Insight." Training in

Statistics for Chemists: Round-table discussion, leaders to be announced.

July 25: Clinic: At this session, discussion of concrete problems by members of the conference will be carried on. Statistics in Laboratory Experimentation: W. J. Youden, Discussion; Bourdon F. Scribner, "Problems in Spectrochemical Analysis;" Frank Wilcoxon, "The Use of Ranks in Latin Square Designs."

July 26: Statistics in Laboratory Experimentation (cont.): James I. Minor, "Precision Reference Temperatures;" Louis Tanner, "The Selection of Economic Precision Limits for Laboratory Tests." Statistics in Industrial Research: R. H. Noel, Discussion; W. L. Gore, "Resolution of Interactions in Chemical Experimentation;" Allyn W. Kimball, Jr., "Utility of Variance Analysis."

July 27: Statistics in Industrial Research (cont.): Charles A. Bicking, "The Role of Statistics in Increasing the Productivity of Industrial Research;" K. A. Brownlee, subject to be announced; Cuthbert Daniel, "Linear Extrapolation."

GENERAL BIOCHEMISTRY

H. E. Carter, *Chairman*

July 30: J. C. Sheehan, "Synthesis of Peptides;" K. Hofmann, "Synthesis of Peptides;" W. H. Hartung, "Benzylloximino Acid Chlorides;" R. M. Herbst, "Optical Properties of Peptides."

July 31: L. C. Craig, "Fractionation of Peptides;" S. F. Velick, "End Group Labeling of Peptides;" K. A. H. Li, "ACTH Peptides;" F. Sanger, "DNP Peptides."

August 1: R. B. Johnston, "Transpeptidation;" J. E. Snoko, "Enzymatic Synthesis of Glutathione;" H. Neurath, "The Hydrolysis of Peptides and Peptide Derivatives by Extracellular Proteolytic Enzymes;" J. G. Greenstein, V. E. Price, A. Meister, L. Levintow, and J. B. Gilbert, "Dehydropeptides."

August 2: F. Lipmann, "The Function of Coenzyme A in Acetyl Transfer Reactions;" E. R. Stadtman, "Transacetylation;" H. S. Anker, "Acetylation of Amino Acids;" D. Nachmansohn, "Acetylation of Choline."

August 3: S. Ochoa, J. R. Stern, and S. Korkes, "Enzymatic Synthesis of Citric Acid and Pyruvate Oxidation;" S. Gurin, "Fatty Acid Metabolism."

CURRENT TRENDS IN ANALYTICAL CHEMISTRY

Trace Analysis

W. E. Campbell, *Chairman*; J. J. Lingane,
Vice Chairman

August 6: S. E. Q. Ashley, "Philosophy of Trace Analysis;" C. E. White, "Fluorescence Analysis."

August 7: J. Yoe, "Colorimetric Trace Analysis;" H. Levin, "Trace Analysis of Petroleum Products."

August 8: E. H. Swift, "Colorimetric Trace Analysis;" W. D. Cooke, "Colorimetric Trace Analysis;" L. B. Rogers, "Electrolytic Trace Analysis Involving Radioactive Indicators;" T. S. Lee, "Trace Analysis Involving Electrolytic Reactions at a Rotated Mercury Electrode."

August 9: L. K. Nash, "Trace Gas Analysis;" Speaker to be announced, "Radioactive Tracer Analysis."

August 10: Speaker to be announced, "Isotopic Dilution Analysis."

STEROID CHEMISTRY

T. F. Gallagher, *Chairman*

August 13-17: Recent Advances in the Chemistry of Adrenal Steroids, General topic for presentation and discussion: Total Synthesis.

(Speakers and detailed program will be announced later.)

INORGANIC CHEMISTRY

Present Status and Desirable Future Objectives

W. Conard Fernelius, *Chairman*

August 20-24: General subjects: Coordination Compounds, Crystal Growth, Electron-deficient Fluorine Compounds. Detailed program to be announced.

NUCLEIC ACIDS AND PROTEINS

R. W. G. Wyckoff, *Chairman*; Kurt G. Stern, *Vice Chairman*

August 27-31: The program will include the following topics: The chemistry of and analysis for split products of nucleic acids; certain reactions of proteins; problems of viruses concerned with (a) the use of tracers in studying the growth of bacteriophage and (b) the nature of the infectious unit of certain plant viruses; mechanisms of the effects of radiation on microorganisms.

(Speakers and detailed program will be announced later.)

News and Notes

Scientists in the News

Three Canadian representatives have been appointed to the International Commission for the Northwest Atlantic Fisheries. They are **Stewart Bates**, deputy minister of fisheries, Ottawa; **J. Howard MacKichan**, general manager, United Maritime Fishermen, Ltd., Halifax; and **Raymond Gushue**, chairman, Newfoundland Fisheries Board. **A. W. H. Needler**, director of the Atlantic Biological Station, Fisheries Research Board of Canada, St. Andrews, was named scientific adviser to the commissioners.

Manson Benedict has been appointed professor of chemical engineering at Massachusetts Institute of Technology. He will also serve as scientific director of the National Research Corporation. He has been director of process development for Hydrocarbon Research, Inc., and is a member of the AEC Reactor Safeguard Committee.

Edward P. Brooks, vice president and director of Sears, Roebuck and Company, has been chosen head of the new School of Industrial Management at MIT. Mr. Brooks goes to his new post in September, and the school, which is to be established with a \$5,250,000 gift of the Alfred P. Sloan Foundation, is expected to open late in 1952.

Ernest Cadman Colwell, president of the University of Chicago, has resigned to accept appointment as "the distinguished visiting professor" of Emory University. His resignation leaves vacant both the presidency and chancellorship of the university. Chancellor **Robert Maynard Hutchins** resigned in December to join the Ford Foundation as an associate director, with headquarters in Pasadena, Calif. **Lawrence A. Kimpton** has been named chancellor, but no successor to Dr. Colwell has been chosen.

Bertil Frödin, Swedish engineer and businessman, is a member of the Fifth Chilean Antarctic Expedition. On commission by the universities of Stockholm, Uppsala, and Gothenburg, Mr. Frödin will make geo-

graphical, glaciological, geological, and botanical observations during the trip to Graham's Land.

Maurice Goldblatt has received the University of Chicago's most distinguished award, the Rosenberger medal, awarded for service in the promotion of human welfare, in recognition of his contributions to the welfare of the city and the University of Chicago, and for his leadership in the national fight against cardiac, cancer, and mental diseases. Mr. Goldblatt is the eleventh recipient of the medal.

The Guyot Prize, awarded by the University of Groningen every fifth year for the most prominent discoveries in the field of ear diseases, has been conferred on **Gunnar Holmgren**, of Stockholm.

Harry N. Holmes, professor emeritus of chemistry, Oberlin College, has been chosen to receive the 1951 Gold Medal of the American Institute of Chemists, in recognition of his "noteworthy and outstanding service to the profession of chemist and the science of chemistry as an able and enthusiastic teacher, author, and investigator." Presentation of the medal will be made at the annual meeting of the institute at Niagara Falls, Ontario, May 9-11.

Willard Rouse Jillson, former state geologist of Kentucky, has resigned his position as professor and head of the Department of Geology at Transylvania College. He will continue his professional work as a consultant in geology and mining engineering at Frankfort.

William D. Johnston, chief of the U. S. Geological Survey's foreign geology branch, has just returned from India, where he represented the U. S. Government and the Geological Society of America at the centenary of the Geological Survey of India in Calcutta, and conferred with governmental, industrial, and scientific leaders on Point Four geological projects. He reported that India is keenly interested in the possibility of sending native geologist trainees to this country under both Point Four and UN provisions.