

Chemical Research Conferences, 1947:

Colby Junior College, New London, New Hampshire, June 16–August 22

W. George Parks, *Director,*
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THE CHEMICAL RESEARCH conferences, organized on a continuous basis by Dr. Neil E. Gordon in 1938 and formerly known as the Gibson Island Research Conferences, are sponsored by the AAAS. Gifts from industrial companies whose laboratories have been represented at the Conferences provided the funds with which the AAAS purchased the Conference property on Gibson Island, located in Chesapeake Bay a few miles south of Baltimore, Maryland.

During the past nine years the Conferences have been held each summer on Gibson Island, the facilities of the Gibson Island Club being made available to those attending. However, in recent years it has not been possible to provide satisfactory accommodations for the increased number of persons desiring to attend the Conferences because of the limited facilities available and because of the expanding activities of the Club, which required greater use of its facilities for Club members.

The Management Committee of the Conferences therefore decided this year to dispose of the Gibson Island property and to move to a location with greater facilities and more suited to the specific needs of the group.

LOCATION

The Chemical Research Conferences for 1947 will be held at the Colby Junior College, located in the New England vacation country, in New London, New Hampshire. The entire facilities of the College have been made available for the Conferences. Concord, the state capital, is 35 miles to the southeast, and Hanover is the same distance to the northwest. By automobile, New London is located on the cross-state highway, Route 11, 100 miles from Boston and 130 miles from Springfield, Massachusetts. The White Mountains are approximately 50 miles from the College.

There are two ways of reaching the College by train: From Boston, those attending the Conferences should take the Boston and Maine Railroad to Potter Place, which is a short distance by automobile from New London; from New York City and the West, New London is reached via Springfield, Massachusetts, and Claremont Junction, New Hampshire. Concord, New Hampshire, is the nearest airport and is served by the Northeast Airlines. Limited bus transportation is also available. The College owns and operates three station wagons,

primarily for transportation to and from the railroad stations.

There are six mountains in the skyline and numerous lakes in the immediate area. Opportunities are available for many sports, including golf (Lake Sunapee Golf Course), tennis (six composition courts and a practice board), swimming (fresh water), and boating. Numerous other recreational facilities are available for relaxation during the Conferences.

PURPOSE

The Chemical Research Conferences were established to stimulate research in universities, research foundations, and industrial laboratories. This purpose is achieved by an informal type of meeting consisting of scheduled lectures and discussion of topics of current research interest.

The first meeting of each Conference is held Monday at 10:00 A.M. Other morning sessions through Friday are usually scheduled from 9:30 A.M. to 12:00 Noon. The second session of each day is generally held from 7:30 to 10:00 P.M., Monday through Thursday. There are no Friday evening sessions, and Conference members are expected to release their rooms not later than Sunday morning.

ATTENDANCE

Those interested in attending the Conferences are requested to send in their applications to the director, on or before April 15. Each applicant must state the institution with which he is connected and the type of work in which he is most interested.

The director will submit the names of those requesting attendance to the chairmen of the respective Conferences. Each chairman, in cooperation with a Program Committee, will review the names and select the members in an effort to distribute the requests as fairly as possible among the various institutions represented. Names selected by the program committee will be returned by the chairman to the director, who will notify those selected. A registration card will be sent with the notice of selection. For each Conference advance registration by mail is required. On receipt of the registration card and the registration fee of \$3.00, made payable to the Chemical Research Conferences, a room assignment will be sent to each registrant. In addition to the registration fee, a

deposit to cover the room rent for the number of days of attendance must accompany the registration card. Rooms are \$4.00 per day per person; the meals served in the College dining room, \$4.50 per day per person. During each Conference a buffet dinner is planned for Thursday evening at no additional charge. If possible, single rooms will be made available for the speakers at the same rate. Several suites will be available at the rate of \$5.00 per day per person, with a minimum of two persons per suite. Unallocated suites will be assigned to man and wife whenever possible. On proof that the member is paying his own personal expenses, he may be granted a reduction of \$1.00 per night on room rent. This information should be given at the time a request for attendance

is made. The registration fee will not be refunded. The deposit to cover the room will be returned and room reservation canceled, provided notice of inability to attend is received in sufficient time to rent the room.

Accommodations will be available for a limited number of women who wish to accompany their husbands. All such requests should be made at the time of the request for attendance, since these limited accommodations will be assigned in the order of receipt of specific request.

Requests for attendance at the Conferences or for any additional information should be addressed to Dr. W. George Parks, Department of Chemistry, Rhode Island State College, Kingston, Rhode Island.

PROGRAM

ORGANIC HIGH POLYMERS

C. C. Price, Chairman; W. O. Baker, Vice-Chairman

June 16 C. S. Marvel, "New Monomers"; R. L. Frank, "Structure of Synthetic Rubbers."

June 17 G. S. Whitby, "Proliferous Polymerization"; John Rehner, Jr., "The Polyisobutylene Reaction."

June 18 A. J. Warner, Federal Telecommunication Laboratories, "New Monomers"; H. Mark, "Cyclo-octotetraene."

June 19 A. V. Tobolsky, "Aging and Degradation of Polymers"; E. H. Farmer, British Rubber Producers Association (title to be announced).

June 20 M. G. Evans, The University, Leeds (tentative).

CATALYSIS

Walter G. Frankenburg, Chairman; H. S. Taylor, Vice-Chairman

June 23 Aristid V. Grosse, "The Concept of Catalytic Chemistry"; H. S. Taylor, "New Data on the Heterogeneity of Catalytic Surfaces."

June 24 James B. Sumner, "The Chemical Nature of Biocatalysts; Problems Concerned With the Isolation of Enzymes"; Paul H. Emmett, "Adsorption of Carbon Monoxide and Hydrogen on Carbided Iron Catalysts."

June 25 Otto Beeck, "Thermodynamic and Mechanical Statistical Aspects of Catalysis"; Thomas W. DeWitt, "Mechanism Studies with C¹⁴ on Iron Fischer-Tropsch Catalysts."

June 26 M. Jellinek, I. Fankuchen, R. Ward, and M. Erchak, "X-Ray Diffraction in the Study of Catalysts" (tentative); Marion Armbruster, "The Sorption of Gases on a Plane Surface of Stainless Iron-Chromium-Nickel Alloys at 20°, 78°, and -185°C."

June 27 Herman E. Ries, Jr., "Adsorption Studies of Some Supported Catalysts and Their Supports."

PETROLEUM

W. G. Lovell, Chairman; O. Beeck, Vice-Chairman

June 30 F. D. Rossini, "Hydrocarbons in Petroleum"; S.

S. Kurtz, "Analysis of Petroleum Products for Hydrocarbon Types."

July 1 H. M. Smith, "Survey of Composition of American Petroleum"; A. C. Fieldner, "Synthetic Fuels and Shale Oil."

July 2 Clark Goodman, "Physical and Chemical Changes Produced by Nuclear Radiations"; A. M. Rothrock, "Power Production From Petroleum."

July 3 J. R. Bowman, "Theory of Distillation and Related Separation Processes"; Manson Benedict, "Diffusion Separation Processes."

July 4 O. Redlich, "Azeotropic and Extractive Separations."

TEXTILES

W. A. Sisson, Chairman; Ross C. Whitman, Vice-Chairman

July 7 Eugene Pacsu, "The Molecular Structure of Cellulose and Its Relationship to Chemical Degradation"; Clifford B. Purves, "Some Aspects of the Chemical Reactivity of Cellulose."

July 8 Onslow B. Hager, "The Reaction of Cellulose With Formaldehyde Compounds and Its Effect on Fiber Properties"; John A. Howsmon, "The Fine Structure, Moisture Regain, and Physical Properties of Rayon."

July 9 Alfred E. Brown and Milton Harris, "Natural Protein Fibers"; Harold P. Lundgren, "Synthetic Protein Fibers."

July 10 Charles F. Goldthwait, "The Swelling of Cotton and Its Utilization in Water-resistant Fabrics"; Harold DeWitt Smith, "Properties of Woven Fabric as Anticipated From Fiber Properties."

July 11 Earl K. Fischer and Charles H. Lindsley, "Rheological Properties of Compositions Used in the Textile Industry."

CORROSION

K. G. Compton, Chairman; I. A. Denison, Vice-Chairman

July 14 H. H. Uhlig, "The Electrochemical Theory of

Corrosion"; R. B. Mears, "Factors Affecting the Rate of Atmospheric Corrosion."

July 15 W. S. Loose, "Atmospheric Corrosion of Light Metals"; R. H. Brown, "Atmospheric Corrosion of Light Metals"; A. W. Tracy, "Atmospheric Corrosion of Nonferrous Metals"; W. E. Campbell, "Indoor Atmospheric Corrosion of Nonferrous Metals."

July 16 Harry R. Copson, "Atmospheric Corrosion of Iron and Ferrous Alloys"; C. H. Sample, "Atmospheric Corrosion of Metallic Protective Coatings."

July 17 I. A. Denison, "Underground Corrosion"; R. B. Hoxeng, "Cathodic Protection of Underground Structures by Means of Light Metals."

July 18 R. L. Starkey, "Bacteria and Underground Corrosion."

MEDICINAL CHEMISTRY

E. H. Northey, *Chairman*; J. M. Sprague, *Vice-Chairman*

July 21 Enzyme Chemistry.

July 22 Antibiotics.

July 23 Curare and Curare-like Drugs; Folic Acid.

July 24 Veterinary Medicine.

July 25 Tuberculosis.

The speakers and titles on the Conference subjects will be announced in the final program, to be published April 1, 1947.

VITAMINS

D. W. Woolley, *Chairman*; Floyd S. Daft, *Vice-Chairman*

July 28–August 1 P. L. Harris and E. L. Hove, "Treatment of Experimentally Induced Stomach Ulcers With Tocopherol"; H. R. Bird, "Studies on an Unknown Growth Factor in Cow Manure"; C. A. Cary and A. M. Hartman, "I. Evidence of the Existence of a Still Unidentified Growth Factor in the Nutrition of the Rat. II. Relation Chemically and Nutritionally to Protein, and Occurrence in Various Prepared Caseins and Other Sources of Protein"; W. E. Knox, "Identification of New Metabolites of Nicotinic Acid"; D. M. Bonner, "The Precursors in the Biosynthesis of Nicotinic Acid"; J. Schultz and G. T. Rudkin, "The Requirements for Growth of *Drosophila* on a Chemically Defined Medium"; W. D. Salmon, D. H. Copeland, and R. W. Engel, "Production of Neoplasms as a Result of Prolonged Choline Deficiency."

The program for the Conference on Vitamins is incomplete. Additional speakers with titles and the specific dates will be given in the final program, to be published April 1, 1947.

FOOD AND NUTRITION

Lawrence Atkin, *Chairman*; P. L. Harris, *Vice-Chairman*

August 4–August 8 M. L. Anson, "Sugar-Protein Reaction, Significance and Methodology"; Speaker to be an-

nounced, "Chemistry of the Sugar-Protein Reaction"; Discussion leader, J. P. Kass. Speaker to be announced, "Food Anti-Oxidants, Fat-Soluble"; Speaker to be announced, "Food Anti-Oxidants, Water-Soluble"; Discussion leader, P. L. Harris. Gerald J. Cox, "Caries and Nutrition in Human Subjects"; James H. Shaw, "Nutrition and Animal Dentition"; Discussion leader to be announced. K. P. Richter, "Self-Selection of Foods"; H. Waelisch, "Nutrition and Brain Function"; Discussion leader, to be announced. A. White, "Nutrition and Endocrine Function"; Paul György, "Diet, Liver and Sex Hormones"; Discussion leader to be announced. Speaker to be announced, "Intestinal Microorganisms and Human Nutrition"; L. Wright, "Intestinal Microorganisms and Animal Nutrition"; Discussion leader to be announced. Speaker to be announced, "The Clinical Estimation of Nutritional Status"; Speaker to be announced, "Results of Postwar Nutritional Surveys"; Discussion leader to be announced. D. K. Tressler, "Enzymes in the Food Industry"; Z. I. Kertesz, "Pectins and Pectic Enzymes"; Discussion leader to be announced. H. H. Mitchell, "Evaluation of Proteins and Hydrolysates *in Vivo*"; R. J. Block, "Evaluation of Proteins and Hydrolysates *in Vitro*"; Discussion leader, D. Melnick.

The completed program for the Food and Nutrition Conference will be published April 1, 1947.

CANCER

A. M. Brues, *Chairman*; Paul S. Henshaw, *Vice-Chairman*

The preliminary program for the Cancer Conference is not yet available. The final program will be published April 1, 1947.

INSTRUMENTATION

C. O. Fairchild, *Chairman*; J. C. Peters, *Vice-Chairman*

August 18 Robert B. Jacobs, "High-Vacuum Measurement and Control"; R. L. Garman, "Physical Properties Not Commonly Used in Indirect Measurement"; C. M. Albright, Jr., and C. H. Neilsen, "Unsolved Control Problems of the Chemical Industry."

August 19 Ralph H. Müller, "Electronics in Modern Analytical Chemistry"; Donald P. Campbell, "Practical Application of Automatic Control Theory"; Ralph E. Clarridge, "The Organization and Functions of an Application Engineering Department."

August 20 Norman Wright, "Application of Infrared Measurements in Industry"; John J. Grebe, "Application of Control Principles to Human Behavior."

August 21 James J. Lingane, "Polarography"; J. C. Mouzon, "Low-Temperature Radiation Pyrometry in Industry."

August 22 W. J. Eckert, "Field of Usefulness of Various Mechanical and Electrical Calculators."

