

Gordon Research Conferences: Winter Program, 1971

Alexander M. Cruickshank

The Winter Gordon Research Conferences will be held 18–29 January 1971 in Santa Barbara, California, at the Miramar Hotel.

Purpose. The 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 speakers and discussion groups. Sufficient time is available to stimulate informal discussion among the members of each Conference. This type of meeting is a valuable means of disseminating information and ideas to an extent that could not be achieved through the usual channels of publication and presentation at scientific meetings. In addition, scientists in related fields become acquainted and valuable associations are formed that often result in collaboration and cooperative efforts among laboratories.

Meetings are held in the morning and in the evening, Monday through Friday, with the exception of Friday evening. The afternoons are available for recreation, reading, or participation in discussion groups, as the individual desires.

It is hoped that each Conference will extend the frontiers of science by fostering a free and informal exchange of ideas among persons actively interested in the subject under discussion. The purpose of the program is to bring experts up to date on the latest developments, to analyze the significance of these developments, and to provoke suggestions concerning the underlying theories and profitable methods of approach for scientific research. The review of known information is not desired.

In order to protect individual rights and to promote discussion it is an established requirement of each Conference

that no information presented is to be used without specific authorization of the individual making the contribution, whether in formal presentation or in discussion. Scientific publications are not prepared as emanating from the Conferences.

Registration and reservations. Attendance at the Conferences is by application. Applications must be submitted in duplicate on the standard application form which may be obtained from the office of the director. This procedure is important because certain specific information is required in order that a fair and equitable decision on the application may be made. Attendance at each Conference is limited to approximately 100 conferees.

The director will submit the applications of those requesting permission to attend a Conference to the Committee for that Conference. This Committee will review the applications and select the members in an effort to distribute the attendance as widely as possible among the various institutions and laboratories represented by the applications. A registration card will be mailed to those selected. Advance registration by mail for each Conference is required and is completed on receipt of the card and deposit of \$30. This advance deposit is not required from foreign scientists. Checks are to be made payable to the Gordon Research Conferences. The deposit will be credited against the fixed fee for the Conference. A registration card not accompanied by the deposit will not be accepted.

The Board of Trustees of the Conferences has established a fixed fee of \$150 for resident conferees covering registration, double room with bath, City of Santa Barbara room tax, meals, and gratuities for five Conference days. It will not provide for golf, telephone, taxi, laundry, Conference photograph, or any other personal expense. The fixed fee was established to encourage attendance for the entire Conference

and to increase the special fund that is available to each chairman for the purpose of assisting conferees who attend a Conference at total or partial personal expense with their travel or subsistence expenses or with both.

It is to the advantage of all participants to attend a Conference for the entire week. The fixed fee will be charged regardless of the time a conferee attends the Conference—that is, for the periods of from 1 to 4½ days. It is divided as follows: registration fee \$50, room and meals \$100 including gratuities, for five Conference days. An additional charge of \$4 per night will be made for a single room if no double rooms or roommates are available. These rooms will be assigned in the order that applications are received. An additional charge will be made for rooms occupied more than five Conference nights (Sunday through Thursday).

The conferees are expected to live at the Conference location because one of the objectives of the Conference is to provide a place where scientists can get together informally for discussion of scientific research. When special circumstances warrant a request to live elsewhere, permission must be obtained from the director. If the request is approved, nonresident conferees will be charged a registration fee of \$65 instead of the resident fee of \$50.

Conferees living at the Conference location who will pay all or part of the fixed fee as a personal expense may request a reduction of \$25 in the registration. Application for this special fee must be made at the Conference office during the Conference.

Accommodations are available for wives who wish to accompany their husbands and for children 12 years of age or over. All such requests should be made at the time the attendance application is submitted. The charge for room and meals for a guest is \$100.

Special Fund. A special fund is provided from the registration fee and is made available to the chairman of each Conference for the purpose of increasing the participation of research scientists who could not otherwise attend and participate because of financial limitations. Its use is not limited to scientists who have been invited by the chairman as a speaker or discussion leader. The money is to be used as an assistance fund only and may be used to contribute toward conferees' travel expenses, registration fee, and/or subsistence expenses at the Conference location.

The author is director of the Gordon Research Conferences, University of Rhode Island, Kingston 02881.



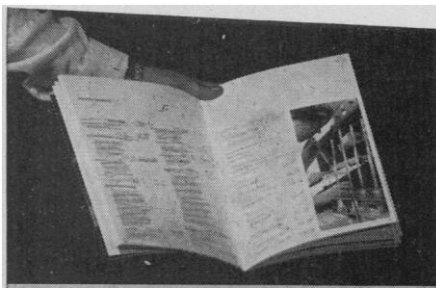
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Total travel and subsistence expenses usually will not be provided.

Cancellation. The \$30 deposit is forfeited if an approved application is cancelled. This deposit is not transferable to another Conference or conferee.

Membership. Requests for membership in the Conferences or for additional information should be addressed to: Alexander M. Cruickshank, Director, Gordon Research Conferences, Pastore Chemical Laboratory, University of Rhode Island, Kingston, Rhode Island 02881 (telephone: 401-783-4011).

PROGRAM

Chemical Oceanography

R. M. Pytkowicz, *chairman*; D. W. Hood, *vice chairman*.

18 January. Air-sea chemical interactions (H. G. Ostlund, discussion leader): H. Craig, "Dissolved gases and oceanic mixing and transport processes"; B. Benson, "Variations in dissolved gas concentrations." Stable isotopes and radioactivity in the oceans (W. S. Broecker, discussion leader): H. Volchok, "Man-made radioactivity"; H. Craig, "Stable isotopes"; W. S. Broecker, "Natural radioactivity."

19 January. Sediment-seawater interactions (R. M. Garrels, discussion leader): R. A. Berner, "Sulfate reduction and iron sulfide formation in sediments"; F. Mannheim, "Pore fluids in oceanic sediments"; A. Lehrman, "Transfer of ionic species across the sediment-water interface." Pollution in the oceans (M. G. Gross, discussion leader): D. H. Klein, "Mercury in the marine environment"; C. Patterson, "Lead in the environment"; J. Prospero, "DDT and wind transport of wastes."

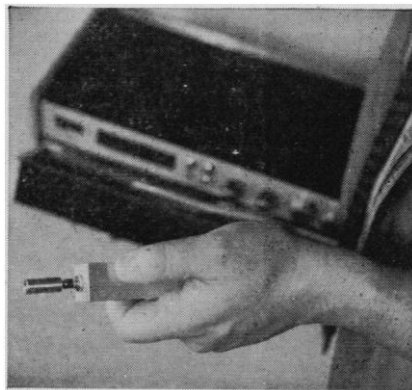
20 January. Physical chemistry of seawater (F. Millero, discussion leader): F. Millero, "The importance of ion-water and ion-ion interactions in the physical chemistry of seawater"; R. Horne, "Solute-water interactions in seawater"; J. Gieskes, "Ion-ion interactions in seawater." Organic and biological chemistry of seawater (D. Menzel, discussion leader): P. Williams, "Organic and biological chemistry of seawater: an assessment of the present status"; T. Packard, "The application of enzymology to the analysis of biochemical rate processes"; D. Boylan, "The function of dissolved organics as chemical communicants in the marine environment."

21 January. Trace elements in the ocean (D. W. Spencer, discussion leader): P. G. Brewer, "Analytical methods

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for trace elements in seawater: some recent intercalibration studies"; T. Lung Ku, "Radium and barium distributions in the oceans." Nutrient chemistry of the oceans and descriptive chemical oceanography (R. Dugdale, discussion leader): J. O'Connor, "Simulation models"; R. Eppley, "The kinetics of nutrient-phytoplankton relationships: methods of measurement"; L. Gordon, "Measuring nutrient concentrations: the new nutrient chemistry."

22 January. General review and future plans (D. Carritt, discussion leader).

Electrochemistry

James N. Butler, *chairman*; Allen J. Bard, *vice chairman*.

18 January. Ion-selective electrodes—mechanisms and new directions: Garry A. Rechnitz, George Eisenman, and Isaac Trachtenberg. Discussion: Richard A. Durst, James W. Ross, Jr., and Edward W. Moore.

19 January. Interfaces, metallic and non-metallic: Richard P. Buck, George A. Parks, Douglas W. Fuerstenau, and John Appleby. Discussion: Robert de Levie and Fred C. Anson.

20 January. Multicomponent electrolytes and natural waters: David Dyrssen, Robert F. Platford, and M. H. Lietzke. Discussion: R. A. Robinson and R. H. Wood.

21 January. Green pastures for applied electrochemistry: Alan Bewick and Douglas N. Bennion. Discussion: Raymond J. Jasinski. An open session will be held in the evening at which presentations not exceeding 15 minutes in length may be given by members of the Conference. Application should be made to the Chairman during the first part of the week.

22 January. Biological electrochemistry: Joseph Jordan. Discussion: Edward W. Moore and Allen J. Bard.

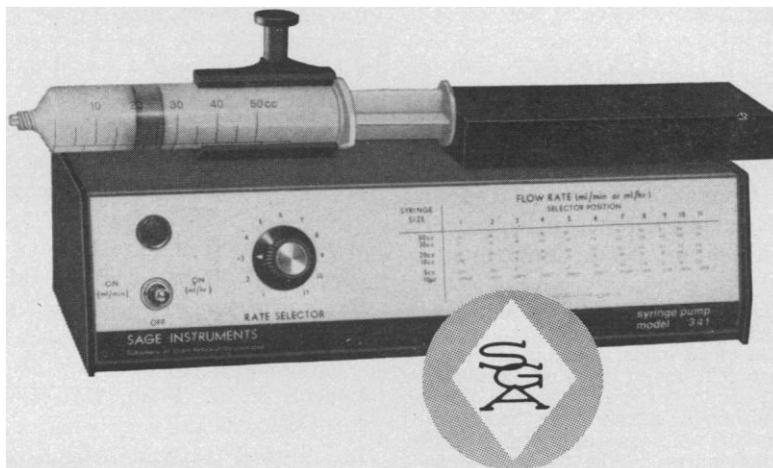
Polymers

Willard R. MacDonald, *chairman*; Fred E. Bailey, *vice chairman*.

25 January. (R. Milkovich, discussion leader): M. Morton, "Properties of polymer reinforced elastomers"; J. L. Koenig, "Laser Raman studies of the interface of glass and graphite fiber composites." (R. Landel, discussion leader): A. E. Oberth, "Viscoelastic effects in composites."

26 January. (M. Huggins, discussion leader): W. J. McKnight, "Properties of polyblends"; C. L. Segal, "Recent developments in high temperature polymers." (T. Smith, discussion leader):

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Edited by J. B. THOMSON, *The University, St. Andrews*. This Sixth Supplement differs from all of its predecessors by the inclusion of an index in empirical formula sequence. The majority of new entries are derived from papers published during 1969, although entries have been added for notable omissions and errors in the main dictionary and the Cumulative Supplement. *Illus.* \$29.00

Jean D'Alembert

Science and the Enlightenment

By THOMAS L. HANKINS, *University of Washington, Seattle*. In eighteenth-century France there was a strong interaction between scientific ideas and philosophy. D'Alembert's career spanned the two worlds of the academies and society, and he played a part in many of the scientific controversies of his time. Professor Hankins elucidates D'Alembert's scientific thought and places it in the context of the intellectual world of Enlightenment France. *10 text figures.* \$11.25

The Metric System

A Critical Study of Its Principles and Practice

By M. DANLOUX-DUMESNILS, *l'Ecole Nationale Supérieure de l'Aéronautique*; translated by ANNE GARRETT and J. S. ROWLINSON, *both of Imperial College, London*. This study traces the history, form, and development and extension of the metric system. The author shows that the metric system is close to perfect, though little understood and often misused. An appendix contains the language of logarithms and an index of properties and units. (*The Athlone Press*.)

Paper, \$2.50

Quantum Mechanics of
Molecular Rate Processes

By RAPHAEL D. LEVINE, *Ohio State University*. This monograph provides a survey of the quantum-mechanical theory of collisions and rate processes and its application to molecular problems. The first part of the book reviews the Dirac-von Neumann formulation of quantum mechanics, the second formulates quantal collision in terms of the Lippmann-Schwinger equation. The third part deals with application and further extensions of the theory. *19 text figures.* \$14.50

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J. C. Halpin, "Polymeric composites—an assessment."

27 January. (H. D. Keith, discussion leader): F. P. Price, "Crystallization at high supercooling"; G. W. Miller, "A mechanical model for the glassy state of polymers." (C. A. Stephens, discussion leader): E. G. Baker, "Polymer-solute interactions."

28 January. (W. T. Barry, discussion leader): H. K. Frensdorff, "Macrocyclic polyethers and their complexes with metal salts"; J. B. Lando, "Synthesis and characterization of stereo-regular poly(methacrylic acid)." (M. T. O'Shaughnessy, discussion leader): Potpourri.

29 January. (F. E. Bailey, discussion leader): R. M. Fitch, "Mechanism of particle formation in polymer colloids"; B. J. Lyons, "Radiation effects on polymers."

Forthcoming Events

December

26-29. Society for the **History of Technology**, Chicago, Ill. (M. Kranzberg, Crawford Hall, Case Western Reserve Univ., Cleveland, Ohio 44106)

26-30. Western Soc. of **Naturalists**, Honolulu, Hawaii. (D. H. Montgomery, Dept. of Biological Sciences, California State Polytechnic College, San Luis Obispo 94301)

26-30. Society of **Systematic Zoology**, Chicago, Ill. (G. I. Stage, Dept. of Entomology, Natl. Museum of Natural History, Washington, D.C. 20560)

26-31. American Assoc. for the **Advancement of Science**, 137th annual, Chicago, Ill. (D. W. Thornhill, AAAS, 1515 Massachusetts Ave., NW, Washington, D.C. 20005)

26-31. Society for **General Systems Research**, Chicago, Ill. (R. F. Ericson, 2100 Pennsylvania Ave., NW, Room 818, Washington, D.C. 20006)

26-31. American **Nature Study Soc.**, Chicago, Ill. (Mrs. J. Geisler, Milewood Rd., Verbank, N.Y. 12585)

26-31. American Soc. of **Zoologists**, Chicago, Ill. (G. Sprugel, Jr., Illinois Natural History Survey, 179 Natural Resources Bldg., Urbana 61801)

27. National Assoc. of **Science Writers**, Chicago, Ill. (Mrs. R. Arctander, Box H, Sea Cliff, N.Y. 11579)

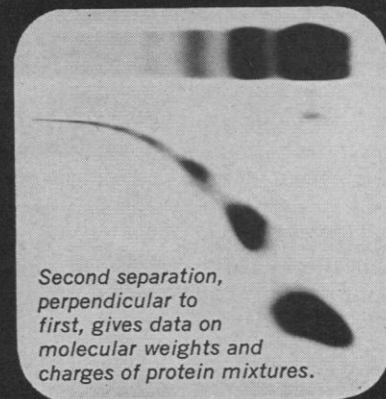
27-30. **Archaeological Inst. of America**, 72nd annual, New York, N.Y. (J. S. Ord, AIA, 260 West Broadway, New York 10013)

27-30. **Biometric Soc.**, eastern North American regional, Detroit, Mich. (D. G. Gosslee, P.O. Box 713, Oak Ridge, Tenn. 37830)

27-30. **Sigma Delta Epsilon**, Chicago, Ill. (M. A. Myers, 6234 Mary Lane Dr., San Diego, Calif. 92115)

27-30. American **Statistical Assoc.**, 130th, Detroit, Mich. (J. W. Lehman,

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