

# Gordon Research Conferences: Winter Program, 1975

Alexander M. Cruickshank

The Winter Gordon Research Conferences will be held 13–31 January 1975 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 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. The recording of lectures by tapes, and so forth, and the photography of slides are prohibited. 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. Only registered conferees are permitted in the meeting room.

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 the 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 conferees covering registration, double room with bath, City of Santa Barbara room tax, meals, and services for five conference days. It will not provide for telephone, taxi, laundry, conference photograph, or any other

personal expenses. The fixed fee was established to encourage attendance for the entire conference and to increase the special fund that is available to each conference 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 services, for five conference days. *An additional charge 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).*

*Guests.* Accommodations are available for guests and for children 12 years of age and 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 for five conference days. A deposit of \$30 is required for each guest reservation. *Guests are not permitted to attend the conference lectures and discussion sessions.* This deposit will be refunded if cancellation is received 2 weeks prior to the conference.

*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 speakers and discussion leaders, but may be granted to any registered conferee by the chairman. 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. Total travel and subsistence expenses usually will not be provided.

*Cancellation.* The conferee deposit is forfeited if an approved application is cancelled. This deposit is not transferable to another conferee or conference.

*Membership.* Requests for membership in the Conferences or for additional information should be addressed to: Dr. Alexander M. Cruickshank, Director, Gordon Research Conferences, Pas-

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### **Tumor Immunology**

D. Bernard Amos, chairman; Ingegerd Hellström, vice chairman.

13-17 January. Mechanism of lymphocyte-mediated target cell (LMI) destruction (Christopher Henney, chairman): Gideon Berke; John Wunderlich, Zoltan Lucas, discussants. Pharmacological intervention in the various stages of LMI (Gertrude Elion, chairman): Enrico Mihich; Terry B. Strom, discussant. T cell receptors and lymphocyte-tumor binding (William Paul, chairman): Hans Wigzell and Pierre Golstein; Avrion Mitcheson, Doyle Stulting, discussants. "Homing of lymphocytes and the effects of homing on the escape of tumors from attack." (Ray D. Owen, chairman): Bede Morris; Brack Hattler, Marian Zatz, discussants. Blocking and unblocking factors in tumor progression (Ingegerd Hellström, chairman): Geoffrey Haughton; Robert W. Baldwin and John A. Mannick, discussants. Treatment of leukemia with bone marrow transplants (Robert Graw, chairman): Donnell Thomas; George Santos, D. W. Van Bekkum, discussants. Oncogenesis in immunodepressed subjects (Anthony P. Monaco, chairman); Robert Schwartz; Richmond T. Prehn, Olga Jonasson, discussants. Tumor growth in T cell or B cell deficient animal hosts (Max Cooper, chairman): Norman D. Reed; Edmond J. Yunis, Henry Wortis, discussants. Reactions with embryonic and phase-specific antigens (Joseph Coggin, chairman): Karen Artzt; Christine Granatek, Linda Gooding, discussants.

### **Energy Absorbing Mechanisms in Polymers and Composites**

William T. Barry, chairman; Sidney Green, vice chairman.

13 January. (Sidney Green, discussion leader): Peter Beardmore, "Test techniques and bulk response of polymers"; Floyd R. Tuler and William L. Server, "Instrumented impact studies of composite materials." (S. Babcock, discussion leader): Lawrence Cessna, "Toughening mechanisms and impact resistance in reinforced and unreinforced plastics"; M. F. Kanninen,

"Fracture mechanisms of polymers and composites."

14 January. (Discussion leader to be announced): S. S. Sternstein, "Yielding, toughness and fracture in glassy polymers"; Albert F. Yee, "Dynamic mechanical behavior of polymers under biaxial stress." (Discussion leader to be announced): Paul Blatz and Victor Chang, "Dynamic and quasi-static stiffness of a stretched elastomer"; Richard Ferris, "Microstructural failure and its time dependence in filled elastomers."

15 January. (Discussion leader to be announced): P. Anne Hiltner, "Stress relaxation of polymers at cryogenic temperatures"; Shiro Matsuoka, "Interpretation of kinetic factor on yield criteria." (Harvey Berkowitz, discussion leader): Eric Baer, "Microdeformation mechanisms in polymers."

16 January. (Discussion leader to be announced): D. LeGrand, "Surfaces, interfaces and adhesion in composites"; Larry De Vries, "Micro failure of plain and reinforced polymers." (F. A. Field, discussion leader): Karl W. Schuler, "Correlation of data in constitutive models."

17 January. (Discussion leader to be announced): Hal Brinson, "Deformation and failure of composites and of composite adhesives"; Lou Lander, "Application of time-temperature equivalence in prediction of material response under shock loading."

### **Polymers**

C. L. Sieglaff, chairman; N. Tschoegl, vice chairman.

20 January. (E. A. Collins, discussion leader): T. Smith, "Deformation processes in amorphous polymers above  $T_g$ "; E. Meinecke, "Stress relaxation, stress-strain, and dynamic properties of polymers." (J. D. Hoffman, discussion leader): W. Retting, "The relations between the relaxation spectrum and mechanical properties of commercial polymers"; J. C. Halpin, "Critical issues in polymer mechanics."

21 January. (F. Bailey, discussion leader): W. McDonald, "Mass spectrometric studies of thermal/oxidative decomposition of polyacrylonitrile"; E. Quinn, "Structural approaches to smoke control from burning polymers." (W. Zimmt, discussion leader): R. Barker, "Flame retardance of fibers"; J. Koenig, "Mechanicochemical degradation of polymers."

22 January. (R. L. Harris, discussion leader): A. J. Hopfinger, "The role of

conformation on control of chemical reactions in polymeric systems"; C. G. Overberger, "The reactivity of polymers in organic reactions—hydrophobic interactions." (J. Lando, discussion leader): H. Ringsdorf, "Structure and reactivity of synthetic polymers and their interactions with biological systems"; W. Daley, "Polymers as chemical reagents."

23 January. (S. E. B. Petrie, discussion leader): H. Coll, "Copolymer analysis by turbidimetric titrations"; H. Schreiber, "Thermodynamic interactions in polymers by GLC"; J. Knox, "Determinations of weight average, molecular weight and molecular weight distributions from melt rheology data." (W. Pavelich, discussion leader): C. Rodgers, "Transport properties of multiphase polymers."

24 January. (N. Tschoegl, discussion leader): W. MacKnight, "Structure and properties of polyblends of poly(2,6 dimethylphenylene oxide) and substituted polystyrenes"; L. H. Sperling, "Interpenetrating polymer networks—properties and synthesis."

### **Electrochemistry**

Manfred Breiter, chairman; Robert deLevie, vice chairman.

27 January. Electrochemical energy conversion (J. R. Huff, discussion leader): R. Brodd, "Primary batteries"; K. Kordesch, "Fuel cells." (S. Schuldiner, discussion leader): E. Cairns, "Secondary batteries"; J. Birk, "High temperature battery systems."

28 January. Metal dissolution and passivation (F. Mansfeld, discussion leader): R. D. Armstrong, "Metal dissolution and passivation"; R. H. Muller, "High-rate anodic metal dissolution." Trace metal analysis (M. W. Breiter, discussion leader): R. Osteryoung and J. Christie, "Trace metal analysis"; R. G. Clem, "Trace and ultra-trace analysis of electrochemically reversible metals."

29 January. Double layer and effect on electrode kinetics (E. Yeager, discussion leader): W. Shultze, "The influence of system specific parameters on the electrosorption valency  $\gamma$ "; J. D. E. McIntyre, "Optical spectroscopy of the electrode-solution interphase." (W. R. Fawcett, discussion leader): R. Guidelli, "Effect of specifically adsorbed ions upon the kinetics of electrode processes"; F. Anson, "Some influences of adsorbed anions on electrode reactions rates."

30 January. Organic electrochemistry (A. Bard, discussion leader): F. Beck, "Cell design and engineering aspects in organic electrosynthesis"; P. Zuman, "The role of hydration in electroreduction and electrooxidation of some carbonyl compounds." (R. deLevie, discussion leader): (speaker and subject to be announced).

31 January. Nerve conduction (R. deLevie, discussion leader): C. P. Bean, "Electrical microstimulation of nerves"; A. Pilla, "Electrochemical information transfer at living cell membranes."

## BOOKS RECEIVED

(Continued from page 343)

**Fish Immunology.** Douglas P. Anderson, Stanislas F. Snieszko and Herbert R. Axelrod, Eds. T.F.H. Publications, Neptune City, N.J., 1974. 240 pp., illus. \$9.95. Diseases of the Fishes, No. 4.

**From Theoretical Physics to Biology.** Proceedings of a conference, Versailles, France, June 1971. M. Marois, Ed. Karger, Basel, 1974. xvi, 468 pp., illus. \$43.

**Fundamentals of Physics.** David Halliday and Robert Resnick with the assistance of W. Farrell Edwards and John Merrill. Wiley, New York, 1974. xxii, 828

pp., illus. \$15.95. Reprint of the 1970 edition.

**The GASP IV Simulation Language.** A. Alan B. Pritsker. Wiley-Interscience, New York, 1974. xviii, 452 pp., illus. \$17.50.

**Génétique des Populations Humaines.** Albert Jacquard with the assistance of André Chaventré, Laurent Degos, André Langaney, and Philippe Lefèvre-Witier. Presses Universitaires de France, Paris, 1974. 220 pp., illus. Paper, 35 F. Collection Sup. Le Biologiste.

**Igneous Petrology.** Ian S. E. Carmichael, Francis J. Turner, and John Verhoogen. McGraw-Hill, New York, 1974. xvi, 740 pp., illus. \$22.50. McGraw-Hill International Series in the Earth and Planetary Sciences.

**Implementing the Learning Society.** Charles S. Benson and Harold L. Hodgkinson with the assistance of Jessica S. Pers. Jossey-Bass, San Francisco, 1974. xx, 148 pp. \$8.75. Jossey-Bass Series in Higher Education.

**Initial Reports of the Deep Sea Drilling Project.** Joint Oceanographic Institutions for Deep Earth Sampling (JOIDES). Vol. 25. June-Aug. 1972. Prepared for the National Science Foundation by the Scripps Institution of Oceanography, La Jolla, Calif., 1974 (available from the Superintendent of Documents, Washington, D.C.). xx, 884 pp., illus. \$14.15.

**Interstellar Communication.** Scientific Perspectives. Cyril Ponnampereuma and A. G. W. Cameron. Houghton Mifflin, Boston, 1974. x, 226 pp., illus. Paper, \$5.95.

**Introduction to Human Physiology.** Mary Griffiths. Macmillan, New York, 1974. xx, 556 pp., illus. \$12.95.

**Introduction to Marine Biology.** Bayard H. McConnaughey. Mosby, St. Louis, ed. 2, 1974. x, 544 pp., illus. \$13.95.

**Introduction to Switching Theory and Logical Design.** Frederick J. Hill and Gerald R. Peterson. Wiley, New York, ed. 2, 1974. xviii, 596 pp., illus. \$17.95.

**An Introduction to the Scientific Study of the Soil.** W. N. Townsend. St. Martin's, New York, ed. 5, 1973. viii, 210 pp., illus. \$16.95.

**An Introduction to the Study of Man.** J. Z. Young. Oxford University Press, New York, 1974. xxviii, 720 pp., illus. Paper, \$6.95. Reprint of the 1971 edition.

**Key Papers in the Development of Information Theory.** David Slepian, Ed. Institute of Electrical and Electronics Engineers, New York, 1973 (distributor, Wiley, New York). vi, 462 pp., illus. Cloth, \$14.95; paper, \$7.50. IEEE Press Selected Reprint Series.

**Lectures on Complex Analytic Varieties.** Finite Analytic Mappings. R. C. Gunning. Princeton University Press, Princeton, N.J., and University of Tokyo Press, Tokyo, 1974. iv, 164 pp. Paper, \$4.

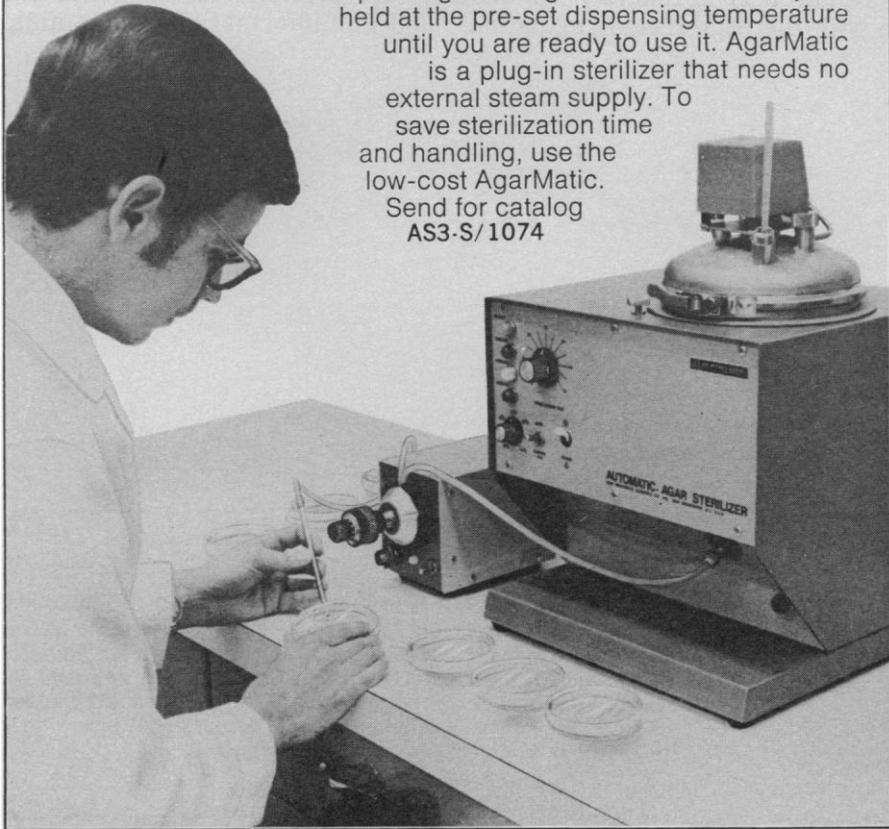
**Liquefied Petroleum Gases.** A Guide to Properties, Applications and Usage of Propane and Butane. Alan Fowler Williams and Walter Lowenstein Lom. Ellis Horwood, Chichester, England, and Halsted (Wiley), New York, 1974. xvi, 404 pp., illus. \$33.50.

**The Lives of a Cell.** Notes of a Biology Watcher. Lewis Thomas. Viking, New York, 1974. vi, 154 pp. \$6.95.

**Logical Abilities in Children.** Daniel N. Osherson. Lawrence Erlbaum Associates, Potomac, Md., 1974 (distributor,

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