

## Gordon Research Conferences — “Frontiers of Science”

|                      | Colby-Sawyer College<br>(N) New London, NH                | Colby-Sawyer College<br>(S) New London, NH                                  | New Hampton School<br>New Hampton, NH                             | Kimball Union Academy<br>Meriden, NH   | Tilton School<br>Tilton, N.H.  |
|----------------------|---|---|---|--|--|
| June 11-15           | Multiphoton Processes<br>P. Lambropoulos                  | Molecular Biology,<br>Diffraction Methods in<br>B. S. Matthews              | Nucleic Acids<br>L. Gold, J. Dahlberg                             | Second Messengers &<br>Protein Phosphorylation<br>J. Maller                    | Theoretical Biology<br>& Biomathematics<br>S. Fraser                           |
| June 18-22           | Nuclear Chemistry<br>W. U. Schroeder                      | Solid State Ionics<br>M. Ratner   | Environmental<br>Sciences: Water<br>R. A. Hites                   | Lipid Metabolism<br>A. Jones   | Animal Cells<br>& Viruses<br>S. McKnight, D. Forbes                            |
| June 25-29           | Catalysis<br>B. C. Gates                                  | Thermosetting<br>Polymers<br>H. E. Bair                                     | Energetic Materials,<br>Chemistry of<br>T. B. Brill               | High Pressure,<br>Research at<br>W. J. Nellis                                  | Glass<br>R. J. Eagan   |
| July 2-6             | Interfaces, Chemistry at<br>B. Haendler                   | Liquid Crystal<br>Polymers<br>G. Calundann                                  | Fuel Science<br>T. G. Squires                                     | Enzymes, Coenzymes<br>& Metabolic Pathways<br>D. Dunaway-Mariano,<br>C. Thorpe | Communication &<br>Control in Complex<br>Systems<br>D. Howland                 |
| July 9-13            | Gravitational Effects<br>on Living Systems<br>E.K. Ray    | Microstructure<br>Fabrication, Chemistry<br>& Physics of<br>H. G. Craighead | Heterocyclic<br>Compounds<br>I. Shinkai                           | Lasers in Medicine<br>& Biology<br>J. Boggan                                   | Drug Carriers in<br>Medicine & Biology<br>J. Weinstein                         |
| July 16-20           | Photosynthesis,<br>Biochemical Aspects of<br>W. A. Cramer | Chemotherapy of<br>Clinical &<br>Experimental Cancer<br>W. Ross             | Organic Reactions &<br>Processes<br>W. Berkowitz                  | Fundamental Interaction<br>of Water with Solid<br>Surfaces<br>T. E. Madey      | Magnetic Resonance in<br>Biology & Medicine<br>R. G. Bryant                    |
| July 23-27           | Corrosion<br>R. Baboian                                   | CO <sub>2</sub> Fixation of<br>Green Plants<br>R. G. Jensen                 | Natural Products<br>G. D. Prestwich                               | High Temperature<br>Chemistry<br>M. Frisch                                     | Nuclear Proteins,<br>Chromatin Structure &<br>Gene Regulation<br>J. Gottesfeld |
| July 30-<br>August 3 | Mammalian Gametogenesis<br>& Embryogenesis<br>J. Rossant  | Physical<br>Electrochemistry<br>J. O'M. Bockris                             | Statistics in Chemistry<br>& Chemical Engineering<br>J. MacGregor | Vascular Cell Biology<br>B. Duling   | Muscle: Contractile<br>Proteins<br>R. Cooke                                    |
| August 6-10          | Medicinal Chemistry<br>C. A. Harbert                      | Ion Channels<br>H. A. Lester  | Analytical Chemistry<br>E. Yeung                                  | Hormone Action<br>F. C. Bancroft,<br>G. L. Hager                               | Photonuclear Reactions<br>R. J. Holt   |
| August 13-17         | Separation &<br>Purification<br>T.A. Hutton               | Order/Disorder in<br>Solids<br>H. L. Strauss                                | Adhesion, Science of<br>J.M. Antonucci                            | Ceramics, Solid State<br>Studies in<br>T. A. Michalske                         | Plasma Chemistry<br>A. V. Phelps   |
| August 20-24         |   |   |   |  |  |

### Tentative 1991 Winter Schedule — California

|                |                              |                                     |
|----------------|------------------------------|-------------------------------------|
| Jan. 7-11      | Polymers                     | Quantitative Genetics               |
| Jan. 14-18     | Composites                   | Temperature Stress in Plants        |
| Jan. 21-25     | Electrochemistry             | Enzyme Organization & Cell Function |
| Jan. 28-Feb. 1 | Metals in Biology            | Agricultural Science                |
| Feb. 4-8       | Protons & Membrane Reactions | Mammalian DNA Repair                |
| Feb. 11-15     | Glycoproteins & Glycolipids  | Fibronectin                         |
| Feb. 18-22     | Kallikreins & Kinins         | Angiotensin                         |
| Feb. 25-Mar. 1 | Superconductivity            |                                     |

### GENERAL INFORMATION

The Summer Gordon Research Conferences will be held June 11-August 17, 1990 in New Hampshire and June 18-August 24, 1990 in Rhode Island.

The chairperson of each conference is requested to have the detailed program in our office January 1, 1990, and the entire Summer program with application will be published in the March 2, 1990 issue of *Science*.

Requests for applications to the Summer Conferences, or for additional information should be addressed to: Dr. Alexander M. Cruickshank, Director, Gordon Research Conferences, Gordon Research Center, University of Rhode Island, Kingston, RI 02881-0801. Tel. (401) 783-4011 or (401) 783-3372. FAX No.: (401) 783-7644.

The 1991 Winter Gordon Research Conferences, as shown above, will be held January 7 - March 1, 1991 in California. Fixed Conference fees and host sites have not been established at this time.

The chairperson of each conference is requested to have the detailed program in the Director's office September 1, 1990 and the detailed Winter program will be published in the October 5, 1990 issue of *Science*.

## 1990 Schedule — New Hampshire & Rhode Island

| Proctor Academy<br>Andover, NH                                | Holderness School<br>Plymouth, NH                            | Brewster Academy<br>Wolfeboro, NH           | Plymouth State College<br>(N) Plymouth, NH              | Plymouth State College<br>(S) Plymouth, NH                         | Salve Regina College<br>Newport, RI  |
|---|--|---|---|--|--|
| Hemostasis<br>H. R. Roberts                                   | Proteolytic Enzymes<br>& Their Inhibitors<br>A.J. Barrett    | Condensed Matter<br>Physics<br>V.J. Emery   | Zeolitic &<br>Layered Materials<br>S.L. Suib            | Water & Solute<br>Exchange in the<br>Microvasculature<br>D. Shepro | Not Available  |
| Plant Molecular<br>Biology<br>M. Chrispeels                   | Biological Regulatory<br>Mechanisms<br>C. Gross, L. Guarente | Basement Membranes<br>J. H. Fessler         | Extrachromosomal<br>Elements<br>R. Hallick              | Computational<br>Chemistry<br>W. J. Jorgensen                      | Biopolymers<br>M. Barkley, B. Honig  |
| Proteoglycans<br>T.R. Oegema                                  | Tribology<br>H. Cheng  | Radical Ions<br>G. L. Closs                 | Biocatalysis<br>D. L. Anton,<br>B. Jones                | Lysosomes<br>P. Stahl  | Organometallic<br>Chemistry<br>R. G. Bergman   |
| Quinoproteins &<br>Pyrroloquinoline<br>Quinone<br>P.M. Gallop | Intermediate<br>Filaments<br>P.M. Steinert                   | Polymers<br>N. G. Gaylord                   | Bacterial Cell Surfaces<br>G. Ames                      | Methanogenesis<br>R. Gunsalus                                      | Stereochemistry<br>J. A. Marshall  |
| Postharvest Physiology<br>W. J. Bramlage                      | Particle-Solid<br>Interaction<br>M. L. Swanson               | Reproductive Tract<br>Biology<br>J. Clarke  | Mutagenesis<br>G. Walker                                | Synthetic Membranes<br>W. J. Ward                                  | Radiation Chemistry<br>A. D. Trifunac  |
| Fungal Metabolism<br>R. L. Metzzenberg,<br>B. Valent          | Drug Metabolism<br>S. K. Figdor                              | Electron<br>Spectroscopy<br>V. McKoy        | Microbial Toxins &<br>Pathogenesis<br>J. L. Mekalanos   | Chemical Senses:<br>Taste & Smell<br>B. P. Halpern                 | Polymer Physics<br>E. J. Kramer  |
| Bioelectrochemistry<br>J. B. Jones                            | Dielectric<br>Phenomena<br>F. Karasz                         | Pyrrole Compounds<br>S. I. Beale            | Solid State Chemistry<br>A. J. Jacobson                 | Motile & Contractile<br>Systems<br>H. Yen                          | Molecular Genetics<br>R. M. Evans  |
| Catecholamines<br>C. O. Rutledge                              | Water & Aqueous<br>Solutions<br>P. Rossky                    | Inorganic Chemistry<br>J. Bradley           | Electronic Processes<br>in Organic Materials<br>M. Pope | Modeling in Solar<br>Terrestrial Physics<br>M.L. Goldstein         | Atomic & Molecular<br>Interactions<br>M. H. Alexander                                  |
| Bioengineering &<br>Orthopedic Science<br>A. Grodzinsky       | Molecular Recognition<br>& Immobilization<br>I.M. Chaiken    | Vibrational<br>Spectroscopy<br>J. F. Rabolt | Foams<br>R. J. C. Dominguez                             | Fractals<br>P. Meakin  | Peptide Growth<br>Factors<br>G. Gill   |
| Dynamics of Simple<br>Systems<br>W. P. Reinhardt              | Organic<br>Geochemistry<br>M. Schoell                        | Not Available                               | Origin of Life<br>J. Kasting                            | Modeling of Flow in<br>Permeable Media<br>J. C. Parker             | Cancer<br>W. Cavanee<br><br>Electron-Donor-<br>Acceptor Interactions<br>G. L. McLendon |

## FIXED CONFERENCE FEES, 1990

### *Fixed Fees (New Hampshire Sites)*

|   |          |
|---|----------|
| Conferee (double occupancy).....                  | \$360.00 |
| (\$310 if postmarked 3 weeks prior to conference) |          |
| Non-Resident Conferee (meals, no room).....       | \$320.00 |
| (\$270 if postmarked 3 weeks prior to conference) |          |
| Guest (room and meals).....                       | \$270.00 |
| (\$220 if postmarked 3 weeks prior to conference) |          |

### *Fixed Fees (Rhode Island Site)\*\**

|   |          |
|---|----------|
| Conferee (double occupancy).....                  | \$375.00 |
| (\$325 if postmarked 3 weeks prior to conference) |          |
| Non-Resident Conferee (meals, no room).....       | \$320.00 |
| (\$270 if postmarked 3 weeks prior to conference) |          |
| Guest (room and meals).....                       | \$285.00 |
| (\$235 if postmarked 3 weeks prior to conference) |          |

Children under 12 years of age are not permitted in the meeting rooms, dining rooms, or dormitories at any host sites.

\*\*All rooms at the Rhode Island site are double with bath.

1. Full fixed fee charged regardless of time conferee attends Conference. Please note fees.
2. Fixed fee cannot be prorated or reduced for anyone (speakers, discussion leaders, conferees).
3. Non-resident conferees are expected to eat all meals in the conference Dining Room and, therefore, the Fixed Fee for non-residents includes the full meal charge.
4. Refunds — See General Information under cancellations.

### **PAYMENT:**

The full fixed fee will be required IN ADVANCE of ALL PARTICIPANTS AND GUESTS. Attendance and/or accommodations will NOT be reserved unless this fee is received in our office 3 weeks prior to the Conference. Foreign participants will also be required to pay Gordon Research Conferences in advance in U.S. dollars payable by wire only to a U.S. bank. Checks drawn on Canadian banks and foreign banks cannot be accepted and will be returned. Scientists in Canada must use a bank draft obtained from their bank payable in U.S. dollars and drawn on a U.S. bank. Remittance information on the transfer must include the conferee's name, conferee number and Conference title. Detailed information on payment, travel etc. mailed with registration material.