

The American Physical Society

DIVISION OF ATOMIC, MOLECULAR, AND OPTICAL PHYSICS

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To Members of the Division of Atomic, Molecular, and Optical Physics from
Kate Kirby

I. DIVISIONAL COUNCILOR ELECTION

A ballot is enclosed for the election of one person to serve as Divisional Councilor for the AMO Physics Division. The term of office is four years, during which the Divisional Councilor serves as liaison between the Division and the A.P.S. The three AMO Physics Division members nominated to run for this position are: Alex Dalgarno, Hugh Kelly, and Eugen Merzbacher. Brief biographical sketches of the candidates appear on the last page of the Newsletter. To have your vote count, your ballot must reach me no later than 14 November 1986. An envelope is enclosed for your convenience.

PLEASE MARK YOUR BALLOT AND MAIL IT TODAY!!!

II. FIRST ANNOUNCEMENT OF THE EIGHTEENTH ANNUAL AMO PHYSICS DIVISION MEETING

The 18th Annual Meeting of the Atomic, Molecular and Optical Physics Division will be held in Cambridge, Massachusetts, on May 18-20, 1987. The host institution is the Harvard-Smithsonian Center for Astrophysics, and the local organizing committee is chaired by W.H. Parkinson. The scientific sessions will be held at the Hyatt Regency Hotel, located on the Charles River, between Harvard University and M.I.T. The hotel is convenient to the major research institutions of Cambridge and to downtown Boston.

Cambridge can be easily reached by air via Logan International Airport (in Boston). An official air carrier for the conference is being arranged, and more information on this will be contained in future announcements. A free shuttle will operate from the airport to the Hyatt on Sunday, May 17.

The Boston/Cambridge area boasts academic institutions, museums, and historical sites. The Cape Cod seashore, the Maine coastline, the White Mountains, and the Berkshire mountains are all within a 2-3 hour drive.

The scientific program will consist of a plenary talk, symposia, contributed oral and poster papers, and a special "hot topics" symposium on Wednesday afternoon. In addition to the scientific program, the following events are scheduled:

Sunday, May 17: Registration at the Hyatt from 15:00 to 21:00, plus a reception for meeting participants at the hotel from 19:00 to 22:00.

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Monday, May 18: Evening cocktails, buffet, and entertainment at the New England Aquarium in Boston.

Although the AMO Physics Division meeting officially ends after the "hot topics" session on Wednesday afternoon, May 20, participants are encouraged to stay through Thursday morning so that they may take advantage of two special events:

Wednesday, May 20: A special series of evening lectures on hot topics in astronomy, sponsored by the Harvard-Smithsonian Center for Astrophysics.

Thursday, May 21: Starting at 9:00, laboratory tours of the major research institutions in the area.

Abstracts

Abstracts for contributed papers (one original and two duplicates) in standard Bulletin format should be sent to the Secretary/Treasurer of the AMO Physics Division, Kate P. Kirby, Center for Astrophysics, 60 Garden St., Cambridge, MA 02138. THE DEADLINE FOR RECEIPT OF ABSTRACTS IS FRIDAY, 13 FEBRUARY, 1987. Please note on one corner of the abstract whether you prefer an oral session or a poster session.

Registration

The comprehensive registration fee of \$100 covers meeting costs, shuttle transportation to and from the airport and Hyatt Regency, reception food and beverage, coffee break refreshments, admission, buffet dinner, and entertainment at the New England Aquarium on Monday night. The student registration fee is \$40.

Accommodations

The Cambridge Hyatt Regency hotel has been reserved for all meeting sessions, and approximately 225 rooms have been set aside for conference accommodations. The Hyatt Regency is situated on the bank of the Charles River with a view across the river to the Back Bay area and the Boston skyline. During the conference, single, double, and twin-bedded rooms are \$108/night; triple occupancy in a twin room with a roll-away is \$20 extra/night. A limited amount of financial assistance toward hotel expenses may be available to students staying at the Hyatt. The rate is quite competitive with other hotels in the Cambridge area. Please bear in mind that May is graduation season for many colleges and universities in Boston and vicinity, so that reservations should be made well in advance. No student/dormitory housing is available at this time of year.

Registration and hotel reservation forms will accompany the next meeting announcement.

III. NBS FISCAL YEAR 1988 PRECISION MEASUREMENT GRANTS

Applications are being solicited for two new NBS Precision Measurement Grants to be awarded beginning 1 October 1987 (Fiscal Year 1988). Each grant is

in the amount of \$30,000 per year, renewable for up to two additional years. NBS sponsors these grants to encourage research in the field of measurement science, and to foster contacts between NBS scientists and those researchers in the U.S. academic community who are actively engaged in such work. Candidates' pre-proposal summaries and biographical information must reach NBS by 1 February 1987. For more information contact Barry N. Taylor, Chairman, NBS Precision Measurement Grants Committee, National Bureau of Standards, Building 220, Room B258, Gaithersburg, MD 20899, (301) 921-2701.

IV. ANNOUNCEMENTS

Nominations for Fellowships in the APS should be sent to Evelyn Bennett at the American Physical Society, 335 E. 45th Street, New York, NY 10017. The nominations should be submitted on the official APS form, which can be obtained by writing to Ms. Bennett at the APS or to P. Richard, Dept. of Physics, Cardwell Hall, KSU, Manhattan, KS 66506, who is Chairman of the DAMOP Fellowship Committee. Nominations must be signed by two members of the APS. The vita of the candidate should be submitted along with this form and any other supporting material (not reprints). Be sure to specify the division in order that the DAMOP Fellowship Committee receives the nomination. The deadline for receipt of nominations is January 15, 1987.

The Fifteenth International Quantum Electronics Conference (IQEC '87) will be held April 27 - May 1, 1987, at the Baltimore Convention Center, Baltimore, MD. This conference, which has been held every two years since 1959, has now become an annual conference. It will be held concurrent with the seventh annual Conference on Lasers and Electro-Optics (CLEO '87). The IQEC '87 technical program will include a joint plenary session with CLEO '87, invited, contributed, poster, and post-deadline papers. For further information, please contact: IQEC '87, c/o Optical Society of America, 1816 Jefferson Place, N.W., Washington, D.C. 20036, (202) 223-0920. The deadline for submission of abstracts from North America is November 17, 1986, and from Europe, China, Japan and USSR it is October 27, 1986.

The XVth International Conference on the Physics of Electronic and Atomic Collisions will be held July 22-28, 1987, at Brighton, England. The conference deals with two-body interactions between ions, atoms, molecules, electrons, positrons, and photons. The collision energies of interest range from subthermal to millions of electron volts. Abstracts for contributed papers will be due March 1, 1987. Information about the Conference can be obtained by contacting: Dr. William R. Newell, Department of Physics, University College of London, London WC1E 6BT, England, UNITED KINGDOM; Tel. (01) 387 7050, Ext. 488.

V. BIOGRAPHICAL INFORMATION ON CANDIDATES FOR DIVISIONAL COUNCILOR

DALGARNO, ALEXANDER, 58, B.SC. 1948, Ph.D. 1951, University College London. Faculty member, Queen's University of Belfast 1951-67. Professor of Astronomy, Harvard University since 1967, Phillips Professor since 1977. Staff Member of Smithsonian Astrophysical Observatory since 1967. Fellow of the Royal Society of London, The Royal Astronomical Society, the American Geophysical Union, the American Physical Society, the American Academy of Arts and Sciences. Chairman, APS Division of Electron and Atomic Physics 1981-83, Member of APS Panel on Public Affairs 1983-85, Member NAS/NRC Committee on Atomic and Molecular Science 1979-84, Panel on Facilities in Atomic and Molecular Science, Panel on Theoretical Atomic and Molecular Science, NSF Advisory Panel on Astronomy 1975-78, (Chairman 1976-78), Board of Associated Universities for Research in Astronomy 1971-79 (Chairman Scientific Committee), NAS/NRC Panel for JILA 1973-78, General Committee of ICPAC 1983-86. Editorial Boards: Planetary and Space Science, Computer Physics Communications, Chemical Physics Letters, Atomic Data and Nuclear Data Tables. Theoretical atomic, molecular and chemical physics with applications to atmospheric science and astronomy.

KELLY, HUGH, 54, AB 1953 Harvard; MS 1954 UCLA; Ph.D. 1963, University of California, Berkeley. Electronics Engineer, Hughes Aircraft Company, 1952-54. USMC 1954-57, 1st Lt. Postdoctoral Physicist, University of California at San Diego, 1963-65. Faculty member, University of Virginia since 1965, presently Commonwealth Professor of Physics and Dean, Faculty of Arts and Sciences. Chairman, Dept. of Physics 1974-78. Chairman, Southeastern Section of APS, 1982. Chairman, DEAP 1984-85. Chairman, Gordon Conference on Atomic Physics, 1983. Member, Committee on Atomic and Molecular Science, 1982-85. Fellow, APS. Jesse W. Beams Prize of Southeastern Section, APS, 1985. Photoionization, atomic many-body physics.

EUGEN MERZBACHER, 65, Licenciante 1943, U. of Istanbul; Ph.D. 1950 Harvard Univ., High school teacher, Ankara, 1943-47. Member Inst. for Adv. Study, Princeton, 1950-51. Faculty member, University of North Carolina at Chapel Hill since 1952. Kenan Professor since 1969. Chairman, Department of Physics and Astronomy, 1965-66 and 1977-82. Thomas Jefferson Award, 1972. NSF Science Faculty Fellow, Niels Bohr Inst., 1959-60. Humboldt Senior Scientist, U. of Frankfurt, 1977. Visitor at: ORNL, 1961; U. of Wisconsin, 1963; U. of Colorado, 1965; U. of Washington, 1967-68; U. of Stirling and U. of Edinburgh, 1986. Associate Editor AMERICAN JOURNAL OF PHYSICS, 1965-70. Board of Editors, PHYS. REV. A, 1980-86. Edit. Board, ATOMIC DATA AND NUCLEAR DATA TABLES, 1969-. Vice-Chair, Intl. Conf. on Electronic and Atomic Collisions, 1985-87. Member-at-large, APS Council, 1972-76. Chair, APS Committee on Education, 1975. Chair, AIP Advisory Committee on Manpower, 1974-76. Chair, Southeastern Section of APS, 1971-72. Chair, DEAP of APS, 1979. Member, Exec. Comm., DNP of APS, 1983-85. Member, APS Panel on Public Affairs, 1984-86. Chair, APS Committee on Constitution and Bylaws, 1984-85. Member, APS Publications Committee, 1986-88. Member, NRC Committee on Atomic and Molecular Science, 1977-80. Member, Nuclear Science Advisory Committee, 1980-83. Member, Council of AAS, 1983-86. Quantum mechanics, atomic collision theory, inner-shell ionization, atomic effects in nuclear reactions, beta decay.