

The American Physical Society

Division of Electron and Atomic Physics

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TO MEMBERS OF THE DEAP FROM PAT DEHMER

I. DIVISIONAL COUNCILLOR ELECTION

A ballot is enclosed for the election of one person to serve as the DEAP Divisional Councillor. The Divisional Councillor serves as a liaison between the Division and the APS and the term of office is four years. The three DEAP members nominated to run for this position are Bernd Crasemann, Robert Hill, and Ivan Sellin. Their vitae appear below. To have your vote count, your ballot must reach me no later than 30 September 1982.

PLEASE MARK YOUR BALLOT AND MAIL IT TODAY!!!

II. VITAE OF NOMINEES

CRASEMANN, BERND, 60, BA 1948, UCLA; PhD 1953, University of California at Berkeley. Faculty member, University of Oregon since 1953, presently Professor of Physics and Department Chairman. Guest Associate Physicist, Brookhaven National Laboratory, 1961-62; Visiting Professor of Physics, University of California at Berkeley, 1968-69; Physicist, Lawrence Radiation Laboratory, Livermore, 1968-69; Guest Scientist, NASA Ames Research Center, 1975-76; Professor, Université Paris VI Pierre et Marie Curie, 1977. NAS/NRC Committee on Atomic and Molecular Science, 1976-82; Chairman, ad hoc Panel on Accelerator-Related Atomic Physics Research, 1975-77; Chairman, Workshop on Accelerator-Based Atomic and Molecular Science, 1980; Proposal Review Panel, Stanford Synchrotron Radiation Laboratory, 1978-; Subcommittee for Review of Atomic, Molecular and Plasma Physics Program, NSF Advisory Committee for Physics, 1981. International Advisory Board or Organizing Committee, International Conferences on X-Ray and Atomic Inner-Shell Physics, Freiburg, 1976; Sendai, 1978; Stirling, 1980; Eugene, 1982. Editorial Board, Physical Review C, 1978; Editorial Board Atomic Data and NDT, 1982-. Chairperson, DEAP Fellowship Committee, 1978-79; DEAP Program Committee, 1979-80; Vice-Chairperson, DEAP, 1980; Chairperson, DEAP, 1981. Atomic inner-shell processes; radiationless transitions; applications of synchrotron radiation to atomic physics.

HILL, ROBERT M., 55, AB 1949, Cornell University; Ph.D., 1953, Duke University. Research Physicist Microwave Physics Laboratory, Sylvania Electric Products, 1953-59; Research Physicist, Research Laboratory (West Coast), General Telephone and Electronics, 1959-1963; Senior Member Technical Staff, Palo Alto Research Laboratory, Lockheed Missiles and Space Company, 1963-70; Senior Physicist, Molecular Physics Laboratory, SRI International, 1970-; Program Officer (Atomic and Molecular Physics) National Science Foundation, 1980-81. Organizing Committee and Chairperson, Wine Selection Committee, DEAP Meeting, 1972 and GEC, 1977; DEAP Program Committee, 1977, 1978, 1982; Chairperson, DEAP Program Committee, 1979; Vice-Chairperson, DEAP, 1979; GEC Executive Committee, 1981-1983. Microwave spectroscopy; molecular collision cross-sections, nonlinear phenomena (harmonic and echo generation) in molecules; plasmas; ferri- and anti-ferrimagnets; thin film tunnelling; ferroelectric phase transitions; resonant photon deflection of molecules; Rydberg atoms-properties and collisions effects; collision kinetics of electronically excited atoms and molecules; excited states of excimer molecules; electron attachment at low energy.

SELLIN, IVAN A., 42, S.M. 1960, Harvard College and University of Chicago; Ph.D. 1964, University of Chicago. Instructor, Enrico Fermi Institute, 1965; Assistant Professor of Physics, New York University, 1965-67; Research Physicist, Oak Ridge National Laboratory, 1967-70; Associate Professor and Professor of Physics, University of Tennessee, Knoxville, 1970 - present; Project Director, UT/ORNL Accelerator Atomic Physics Group, ORNL, 1970 - present. APS membership and offices: Fellow, 1973; Chairman, DEAP Publications Committee, 1974-76; DEAP Nominating Committee, Fellowship Committee, Executive Committee, 1979-83; Councillor, 1979-83; Chairman, Committee on Constitution and Bylaws, 1982-83. National Academy of Sciences-National Research Council offices: Chairman, Panel on Accelerator-Related Atomic and Molecular Science, 1978-80; Chairman, Committee on Atomic and Molecular Science, 1980-83. Chief honors: Chancellor's Research Scholar Award, University of Tennessee, 1976; Alexander von Humboldt Foundation Senior U.S. Scientists Award, Federal Republic of Germany, 1977; Senior Fulbright-Hays Grant, Fulbright-Hays Program with the Federal Republic of Germany, 1977-78. Current fields of research: Physics of highly ionized matter; high-velocity ion-atom and ion-solid collisions; stored ion spectroscopy.

III. FIRST ANNOUNCEMENT OF THE FOURTEENTH DEAP MEETING

The fourteenth annual meeting of the DEAP will be held 23-25 May 1983 in Boulder, Colorado. The meeting will be hosted by JILA, with David W. Norcross heading the local organizing committee.

The program will consist of contributed paper sessions, a poster session, and five symposia. The latter (with organizers) are:

1. Radiative collisions (G. Bjorklund)
2. Exotic atoms (S. Lundeen)
3. The interaction of bound and continuum states (R. Hill)
4. Ultralow energy interactions between electrons and molecules (T. Rescigno)
5. Quantum defect theory in retrospect (D. Norcross)

There will be, in addition, a plenary session with a very distinguished speaker, Professor David Bates, who will speak on the topic "Ion-Ion Recombination in an Ambient Gas."

Given the location and the time of the year, the local committee would like to encourage those who might be considering combining attendance at the meeting with a family vacation to do so. Boulder has a very pleasant downtown mall, where strolling, dining, and enjoying entertainment by musicians, magicians, and jugglers has become a summer evening tradition. The front range has many attractions, such as Rocky Mountain National Park, Colorado Springs, and colorful mountain towns such as Durango and Silverton. There are also many campgrounds, several of which are within ten miles of Boulder.

The social program for the meeting will include a coffee for accompanying persons and several day-long mini-van tours to a scenic mountain lake, the Rocky Mountain National Park, and one or two historic mining towns. There will be a more strenuous hike in the Park, with a chance to throw snowballs, for those who arrive May 21, and a trip to the Coors brewery on the evening of May 25 for late-stayers. The latter includes food for the intellect (a tour of the brewery), the body (a pleasant late evening snack and all the beer you can drink), and the soul (two hours of juke-box dancing). The conference "banquet" will be replaced by a Western Bar-B-Q on the top of Flagstaff Mountain outside Boulder, overlooking the city and the front range. There will also be an open house with refreshments at JILA one evening.

Guest privileges will be available at the beautiful CU Recreation Center for participants and their families for a nominal daily fee. The facilities include tennis, handball, and squash courts, swimming and diving pools, and fully equipped gym and exercise rooms. For those competitive types, the second DEAP tennis tournament has been scheduled, and Memorial Day is the date of the annual Bolder Boulder 10 km foot race, in which over 14,000 participated this year. Babysitting and nursery facilities also will be available.

Additional information (housing, travel, tourism, excursions, etc.) and registration forms will be found in forthcoming issues of the APS Bulletin and in the next DEAP Newsletter. Watch your mail!!!

IV. ROTATOR POSITION AVAILABLE AT ONR

The Office of Naval Research, Physics Division, is seeking an atomic and molecular physicist to help develop the division's programs in atomic physics, molecular physics, and precision techniques. The position would be similar to that of a rotator at NSF and it is necessary that the person be affiliated with a government institution such as a state university. The period of performance would begin in either the summer or fall of 1983 and continue for one to two years. The major areas presently supported are Rydberg atom collisions, atomic collisions in fields, vibrational and rotational energy transfer in molecular collisions, stored ion spectroscopy, low temperature hydrogen maser studies, and electron processes in discharges. Interested persons should apply to B. R. JUNKER, Office of Naval Research, Code 412, 800 N. Quincy Street, Arlington, VA 22217. For further information, telephone Bob Junker at (202) 696-4219.