# The American Physical Society

Division of Electron and Atomic Physics

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June 1982

TO MEMBERS OF THE DEAP FROM PAT DEHMER

## DIVISIONAL COUNCILLOR ELECTION

At a meeting held on 25 April 1982, the DEAP Executive Committee nominated Bernd Crasemann, Robert Hill, and Ivan Sellin to run for the office of Divisional Councillor. The Divisional Councillor serves as a liaison between the Division and the APS and the term of office is four years. According to the DEAP Bylaws, additional nominations for this office by members of the DEAP will be recognized and included on the ballot if the nomination is supported in writing by five percent (113) of the members. Such nominations must reach me no later than 6 August 1982 so that they may be included on the ballot, which will be mailed in late August. Vitae of the nominees appear at the end of this Newsletter.

### II. PHYSICS NEWS IN 1983

The DEAP Publications Committee annually has the task of commissioning contributions for the AIP booklet <u>Physics News in 19XX</u>. The booklet is intended primarily for journalists and science writers and is sent to numerous newspapers, wire services, trade magazines, and science magazines. However, copies are also sent to each member of Congress, to the chairman of each university physics department, to directors and division heads at government and industrial laboratories, and to numerous officials in research-related positions of the U.S. government. Needed are short, nontechnical stories calling attention to interesting and newsworthy developments in our field.

If you have an idea for such a contribution to <u>Physics News in 1983</u>, please send a letter to Eugen Merzbacher, Department of Physics and Astronomy, University of North Carolina, Chapel Hill, NC 27514. The DEAP Publications Committee will select half a dozen essays for this purpose this summer.

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#### III. GROUP TRAVEL ARRANGEMENTS TO ICPEAC

Bill McConkey is considering the possibility of arranging a Group Flight to the Berlin ICPEAC (27 July - 2 August 1983) which would leave from a Canadian location - Toronto and/or Montreal. If you are interested in such a flight, please contact Bill McConkey at the Department of Physics, University of Windsor, Windsor, Ontario N9B 3P4, telephone (519) 253-4232, extension 467.

# IV. DIVISIONAL COUNCILLOR'S REPORT

The APS Council met on 25 April 1982 and Ivan Sellin reports the following news items of interest to DEAP members.

- 1. The APS Council passed a resolution that provides for a one-year experiment concerning publishing the estimated times at which both invited and oral contributed papers will be given. For one year these times are to be published in the Bulletin.
- 2. The APS Committee on the Consitution and Bylaws has proposed extensive revisions to these documents, which will be considered at a special meeting of the APS Council on the afternoon of 5 November 1982 at the APS Fall Meeting in Philadelphia. Interested observers are invited to attend. DEAP members who are participating in this project are Neal Lane, Eugen Merzbacher, and Ivan Sellin (Chairperson).

#### DEAP SPONSORED SYMPOSIA AT FORTHCOMING MEETINGS

# Annual Meeting, 24-27 January 1983, New York, New York

- Precision measurements and fundamental constants (W. Lichten, organizer)
- 2. Rydberg atoms/atoms in fields (D. Herrick, organizer)

## March Meeting, 21-25 March 1983, Los Angeles, California

1. Beam-surface scattering (D. Auerbach, organizer)

#### Spring Meeting, 18-21 April 1983, Baltimore, Maryland

- 1. Atomic methods in nuclear physics (D. Murnick, organizer)
- 2. Low-energy charge transfer (C. L. Cocke, organizer)
- 3. Data dissemination in atomic and nuclear physics

# XIV DEAP Meeting, 23-25 May 1983, Boulder Colorado

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

# Fall Meeting, 20-23 November 1983, San Francisco, California

- 1. Frontiers of metrology (P. Bender, organizer)
- 2. Uses of spectroscopy (C. F. Barnett, organizer)

#### VI. 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, Universite 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.
- 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.