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The American Physical Society

Division of Electron and Atomic Physics

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June 1983

TO MEMBERS OF THE DEAP FROM PAT DEHMER

I. DEAP ELECTION RESULTS

We congratulate Robert Compton of Oak Ridge National Laboratory on his election to a three-year term on the Executive Committee in the February 1983 DEAP election. I would like to thank the more than 600 division members who voted in this election, and urge all of you to continue your participation in both Divisional and general APS elections. Our candidates need your support!

II. REPORT ON THE 1983 DEAP MEETING IN BOULDER, COLORADO

The annual meeting, held 23-25 May at the University of Colorado, was a great success and was our largest meeting to date. There were 485 registrants, with 278 contributed papers and 23 invited papers. This represents an increase of approximately 25% over both registration and the number of contributed papers presented at recent meetings. The banquet atop Flagstaff Mountain was attended by 320 persons. We are all grateful to Dave Norcross of JILA who did a superb job as local chairman for this meeting. Thanks also go to Steve Leone for organizing the JILA open house and to Peter Bender for organizing the Sunday hike in the mountains.

III. DEAP COMMITTEES FOR 1983

The membership of the various DEAP committees for 1983 has been finalized and is given below. In each case the name of the chairperson is underlined and his address given in parenthesis. The Fellowship Committee will soon begin preparing a list of DEAP members to be nominated for APS Fellow in 1983 and suggestions should be sent to the chairman of that committee.

Executive Committee:

Daniel Kleppner (Massachusetts Institute of Technology, 26-231, Cambridge, Massachusetts 02139), Hugh Kelly (Vice-Chairperson), Bernd Crasemann (Divisional Councillor), Alexander Dalgarno (Most Recent Past Chairperson), Patricia Dehmer (Secretary-Treasurer), Gary Bjorklund, Robert Compton, Richard Freeman, Thomas Gallagher, Anthony Starace Program Committee:

Hugh Kelly (Department of Physics, University of Virginia, Charlottesville, Virginia 22901), C. F. Barnett, Chris Bottcher, Steven Chu, C. Lewis Cocke, William Cooke, Patricia Dehmer, Harvey Gould, Robert Hill, B. Grant Johnson, Peter Koch, William Lichten, Stephen Lundeen, Daniel Murnick, David Norcross, David Pritchard, Michael Raymer, Barry Schneider, Anthony Starace, Andrew Tam, George Victor, David Wineland

Nominating Committee:

Robert Hill (Molecular Physics Laboratory, SRI International, Menlo Park, California 94205), Lloyd Armstrong, Benjamin Bederson, Bernd Crasemann, Norval Fortson

Fellowship Committee:

Stephen Smith (Joint Institute for Laboratory Astrophysics, Boulder, Colorado 80309), John Bjorkholm, Steven Manson, Richard Marrus, Patrick Richard

Publications Committee:

Norman Bardsley (Department of Physics and Astronomy, University of Pittsburgh, Pittsburgh, Pennsylvania 15260), William Cooke, David Golden, Edward Hinds

IV. DIVISIONAL COUNCILLOR'S REPORT

Bernd Crasemann, the new DEAP Divisional Councillor, has been appointed to serve on the APS Publications Committee, Fellowship Committee, Audit Committee, Committee on Committees, ad hoc Committee on Meetings, and Committee on the Constitution and Bylaws. He reports the following news from the APS Council meetings held this year:

- (1) The proposed revisions to the APS Constitution and Bylaws appeared in the April issue of the <u>Bulletin</u>. APS members will vote on these revisions in September.
- (2) The Chinese-American cooperative basic research program in atomic, molecular, and condensed matter physics is underway. Ten Chinese physicists are scheduled to arrive this Fall to work in east coast universities. The program is jointly administered by American and Chinese coordinating committees. The American coordinating committee is chaired by Joseph Birman of the City College of New York. Dan Kleppner is the DEAP representative on this committee.
- (3) The APS Committee on the Status of Women in Physics, chaired by Laura Eisenstein of the University of Illinois, has begun a service to mail notices of job opportunities to qualified women who are listed in the Roster of Women in Physics.

- (4) The APS Office of Public Affairs is now operating an office in Washington, D.C., and has a FY84 budget of \$110K. Robert Park of the University of Maryland is the Executive Director of the OPA. The office will be concerned with issues of scientific communication, national security, export control policy, the Federal budget as it relates to scientific funding, and legislative developments in mathematics and science education.
- (5) The Industrial Postdoctoral Fellowship Program has been suspended.
- (6) The Division of Cosmic Physics has changed its name to the Division of Astrophysics.
- (7) Two new awards have been established: (1) the George E. Pake Prize, which will recognize and encourage outstanding work by a physicist combining original research accomplishment with leadership in the management of research or development in industry, and (2) the Dillon Medal, which is sponsored by the Division of High Polymer Physics and will be awarded annually for achievement in that field.
- (8) Mildred Dresselhaus, Chairperson of the ad hoc Committee on Meetings, reports an alarming decline in both attendance and contributed papers at all of the APS general meetings (with the exception of the APS March Meeting, which serves as the annual meeting of the Division of Condensed Matter Physics). In view of the belief that the APS general meetings serve an important function of the Society and should be preserved, Millie Dresselhaus has proposed a number of measures to revitalize these meetings. The DEAP has been asked to consider combining its divisional meeting with the APS Spring Meeting held during April in Washington (or Baltimore). The DEAP Executive Committee would consider recommending that the DEAP Meeting be held jointly with the APS Spring Meeting on a one-time trial basis if the following conditions could be met:
 - (a) The meeting rooms used by the DEAP would be partially separated from the meeting rooms used by the APS Spring Meeting.
 - (b) The meeting days of the DEAP Meeting and the APS Spring Meeting would only partially overlap.
 - (c) There would be adequate facilities for: (1) one invited paper session and two simultaneous oral contributed paper sessions on each of three days, and (2) a poster session of at least 150 contributed papers on one of the days.

Due to prior commitments, 1987 is the first year that a joint meeting could occur. The Executive Committee would like your input on this issue. Please send your thoughts on the proposed joint APS-DEAP Meeting to Daniel Kleppner, Massachusetts Institute of Technology, 26-231, Cambridge, Massachusetts 02139.

V. COMMUNITY INPUT REQUESTED BY CAMS

The NAS/NRC Committee on Atomic and Molecular Science (CAMS), chaired by F. M. Pipkin, has as its major concern the overview and general health of the field of atomic and molecular science in the United States. As input for dealing with government agencies and industrial concerns that support or carry out research in this general area, CAMS would like to receive information from the members of the scientific community concerning the following questions:

- (1) What are the areas which show the greatest promise for significant discoveries in the next decade?
- (2) What are the needs for new facilities which are of a larger scale than can be easily justified for a single research group?
- (3) What are examples of incidents where a lack of funding has significantly delayed or compromised the research that could be undertaken?

Please send your comments to Francis M. Pipkin, Lyman Laboratory of Physics, Harvard University, Cambridge, MA 02138. The Committee would like to receive your comments before 1 September 1983 so that they can be used as input for meeting with the NSF this fall.

VI. FIRST ANNOUNCEMENT OF THE FIFTEENTH DEAP MEETING UNIVERSITY OF CONNECTICUT, STORRS, CONNECTICUT 30,31 MAY & 1 JUNE 1984

The 1984 Annual Meeting of the DEAP will be held on the campus of the University of Connecticut in Storrs, Connecticut on Wednesday through Friday, 30,31 May and 1 June 1984. Please note that the dates have been pushed back to avoid the Memorial Day weekend. The hosts will be members of the Physics Department at the University of Connecticut, with Edward Pollack serving as local chairman. The local committee consists of Edward Pollack, Yukap Hahn, Phil Jones (University of Massachusetts), Quentin Kessel, Ken LaGattuta, William Lichten (Yale University), Tom Moran, Tom Morgan (Wesleyan University), Arnold Russek, Winthrop Smith and Ralph Snyder. Storrs is located approximately 25 miles northeast of Hartford, Connecticut and 45 miles west of Providence, Rhode Island. The campus is conveniently reached by air via Bradley International Airport (Hartford/Springfield) or by car from Boston or New Haven. Housing during the conference will be available on campus. In addition to the regular program, two small workshops on specialized topics are planned in conjunction with the meeting and are described below.

WORKSHOP ON CHEMISTRY FROM ATOM-MOLECULE COLLISIONS

A specialized workshop on atom-molecule collisions, triatomic energy surfaces and chemistry will be held in conjunction with the 1984 DEAP Meeting on Saturday, 2 June, 1984 at the University of Connecticut. Persons interested in attending or having suggestions for speakers should contact either of the workshop cochairmen, Arnold Russek or Edward Pollack at (203) 486-3670 or 486-4915.

WORKSHOP ON CONTROLLING ATOMS

This workshop will be concerned with forces on atoms due to E&M fields (including optical fields), atom and ion trapping, and techniques for cooling atoms and ions to permit high resolution spectroscopy. The program will consist almost exclusively of short contributed papers and informal discussions. Attendance will be limited to those actively engaged in this research area. The workshop will be held on Tuesday, 29 May 1984 at the University of Connecticut. It is expected that hot results in this research area also will be presented at the DEAP meeting. For further details, please contact the workshop organizer, David Pritchard, Massachusetts Institute of Technology, 26-231, Cambridge, Massachusetts 02139, (617) 253-6812.

VII. FIRST ANNOUNCEMENT OF THE NINTH ICAP UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON 23-27 JULY 1984

The Ninth International Conference on Atomic Physics will be held at the University of Washington in Seattle next year, 23-27 July 1984. As is traditional, the program will cover a broad range of topics in atomic physics and allied fields, arranged in a series of invited talks and poster sessions of contributed papers. For more information, write ICAP-9, Department of Physics, FM-15, University of Washington, Seattle, Washington 98195.