

1977 II

The American Physical Society

Division of Electron and Atomic Physics

STEPHEN J. SMITH, *Chairman*
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To MEMBERS OF THE DEAP from Chun Lin

REPORTS OF THE NOMINATING COMMITTEE

The nominating committee, appointed by S. J. Smith early this year, consists of B. Bederson (chairman), J. H. Eberly, W. W. Smith, and G. K. Walters. The slate of candidates for the offices of chairman, vice-chairman, secretary-treasurer, and executive committeeman which they submitted is as follows:

<u>Chairman</u>	-Neal F. Lane Rice University	(1 year)
<u>Vice-Chairman</u>	-Herbert P. Broida University of California, Santa Barbara	(1 year)
<u>Secretary-Treasurer</u>	-Thomas M. Miller Stanford Research Institute	(1 year)
<u>Executive Committeeman</u>	-Hyatt M. Gibbs Bell Laboratories	(One to be elected for a three-year term.)
	-Daniel Kleppner Massachusetts Institute of Technology	
	-Peter P. Lambropoulos University of Southern California	

Under the Bylaws additional nominations for any of the above offices, by members of DEAP, will be recognized and included on the ballot if the nomination is supported in writing by five per cent (10%) of members. Such nomination duly signed, must reach the Secretary-Treasurer no later than September 10, 1977. In the absence of a contest for any given office, the relevant nominee will be declared elected. Ballots for contested offices will be mailed in about September.

The remainder of the executive committee is as follows: Stephen Smith (JILA) is currently chairman and will remain on the committee for one more year as Immediate Past Chairman, replacing Frank Pipkin (Harvard University). King Walters will continue to be a member of the committee as Divisional Councilor. The elected committeemen are Earl McDaniel (Georgia Tech.) until 12/77, J. D. Garcia (University of Arizona) until 12/78, and Richard Deslattes (National Bureau of Standards) until 12/79. Serving one-year terms appointed by the chairman are Norman Bardsley (University of Pittsburgh) and Robert Hill (Stanford Research Institute).

Vitae of the Nominees

LANE, NEAL F., 38, B.S. 1960, M.A. 1962, Ph.D. 1964, University of Oklahoma. NSF Postdoctoral Fellow, Queen's University at Belfast 1964-65. Visiting Fellow, JILA 1965-66, 1975-76. Assistant Professor 1966-69, Associate Professor 1969-72, Professor 1972- , Rice University. Member, General Committee, International Conference on the Physics of Electronic and Atomic Collisions 1969-75. Program Committee 1970-73, 76- , Chairman Fellowship Committee, DEAP. Sloan Fellow 1967-71. Theoretical atomic physics, electron-atom and atom-atom inelastic collisions, rotational excitation of molecules, excited atoms in liquid helium.

BROIDA, HERBERT P., 56, B.S. 1944, University of Colorado, M.A. 1945, Ph.D. 1949, Harvard University. National Bureau of Standards 1949-1963 (Physicist, Section Chief, Senior Research Fellow). Professor of Physics 1963- , Director of Quantum Institute 1973-76, University of California at Santa Barbara. Served on International Committee on Free Radicals Symposia, Committee on Atomic and Molecular Physics of the National Research Council/National Academy of Sciences, etc. Molecular Spectroscopy, chemical kinetics, laser physics, flames, vacuum ultraviolet photolysis, surface physics.

MILLER, THOMAS M., 36, B.S. 1962, M.S. 1964, Ph.D. 1968, Georgia Institute of Technology. Asst. Prof. 1969-74, New York University. Physicist, 1974- , Stanford Research Institute. Visiting Fellow, summer 1977, University of Birmingham. Program committee, IXth ICPEAC. Electron-atom/molecule scattering, electric dipole polarizabilities, ionic photodetachment and dissociation, ion-ion neutralization, excited atom-atom collisions.

GIBBS, HYATT M., 38, B.S. 1960, North Carolina State University, Ph.D. 1965, University of California, Berkeley. Acting Asst. Prof., University of California, Berkeley 1965-67. Member Technical Staff Bell Laboratories 1967- . DEAP Program committee 1971-73. DEAP Representative for arranging APS New York and Washington meetings 1971-73. Spin exchange, Faraday rotation, optical transistor, coherent optics, superradiance, laser spectroscopy.

KLEPPNER, DANIEL, 44, B.A. 1953, Williams College, B.A. 1955 Cambridge University, Ph.D. Harvard 1959. Research Fellow, Harvard 1959-60. From Instructor to Asst. Professor 1960-66, Assoc. Prof. 1966-73, Prof. 1973- , M.I.T. Alfred P. Sloan Foundation Fellow 1962-1966. Served on Committee on Atomic and Molecular Science of the National Research Council/National Academy of Science, DEAP Nominating Committee 1976, etc. Atomic resonance physics, atomic structure, high precision frequency measurements.

LAMBROPOULOS, PETER P., 41, B.S. 1958, National Polytechnic, Athens, Greece. M.S.E. 1962, M.S. 1963 and Ph.D. 1965, University of Michigan. Senior Physicist, 1965-67, Bendix Research Laboratory. Asst. Physicist 1967-72, Argonne Nat. Lab. Visiting Fellow 1972-73, JILA. Asst. to Assoc. Prof. 1973-75, Texas A&M. Assoc. Prof. 1975- , University of Southern California. Organizing Committee, 2nd International Conference on the Interaction of Electrons with Strong Electromagnetic Fields 1975. Program Chairman, International Conference on Multiphoton Processes 1977. Theory of laser interactions with atoms and molecules, atomic and molecular structure and transitions, quantum and non-linear optics, low and intermediate energy nuclear reactions.

NINTH ANNUAL MEETING OF THE DEAP

The Ninth Annual Meeting of the Division of Electron and Atomic Physics will take place at the Hyatt Regency Hotel in Knoxville, Tennessee on 5-7 December 1977. The scientific program will consist of contributed papers, invited papers, and symposia. Oak Ridge National Laboratory and the Department of Physics and Astronomy of the University of Tennessee at Knoxville will act as co-hosts. We wish to acknowledge the efforts of Ivan Sellin and Stuart Elston for making the local arrangements.

The scientific sessions will be held at the Hyatt Regency Hotel at 500 Hill Avenue and most participants will be housed there. Rates are \$28.00 per room for either single or double occupancy, with a charge of \$5.00 for each additional person over two per room. Participants are urged to make their reservations early. A block of rooms has been reserved for the conference, for which reservation requests must be received by 21 November 1977. Reservations will be held until 6 P.M. on the date of arrival. Taxi and limousine service is available at the McGhee-Tyson Airport. Registration will take place in the John Sevier Lobby at the hotel from 4 P.M. to 9 P.M. on Sunday, 4 December, and throughout the conference.

On Sunday evening 6-9 P.M. there will be an informal reception with a cash bar and free snacks. An informal reception Monday evening, 5 December, is being planned to feature two distinguished speakers on stimulating topics of general physical interest, followed by an opportunity to converse with the speakers. Professor David Layzer (Harvard University) and Gerald Feinberg (Columbia University) will discuss their latest ideas on the laws basic to all physics, in a session entitled "Speculations on Physics, Large and Small". Free beer and snacks will be served during the discussion period. On Tuesday afternoon, 6 December, a guided tour will be conducted at Oak Ridge National Laboratory (ORNL) and/or at the American Museum of Atomic Energy in Oak Ridge. In organizing the tour of ORNL, laboratory security requires advance notice of at least one day for American citizens and two weeks for foreign nationals. Be sure to indicate your citizenship on the preregistration form included in this issue if you wish to join this tour. Buses for the tour will depart from the hotel at 2 P.M. on Tuesday. Following the tour, the buses will conduct the group to the Oak Ridge Country Club for the traditional banquet, which will be preceeded by cash bar cocktails and concluded with entertainment. The cost of the banquet will be \$9.25. Buses will depart for the hotel at 10 P.M. and arrive at about 11 P.M. As the distance between the hotel and ORNL and the Country Club is on the order of 30 miles, it is urged that attendees participate in both the tour and the banquet. If sufficient sentiment exists, some effort will be made to provide shuttle service at the appropriate times for exceptions.

Preregistration will greatly facilitate the planning and functioning of the meeting. The registration fee will be \$18.00 up to 15 November and \$25.00 thereafter. The fee for unsupported students and unemployed is \$3.00. Please use the enclosed preregistration form, answer the laboratory tour question, and indicate whether you plan to attend the banquet.

The program committee has decided to have one poster session in this meeting. Beer will probably be served to enhance the informal atmosphere. After the meeting the degree of success of the poster session will be evaluated and

decision will be made as to whether or not this practice should be continued in the future meetings. Members are welcome to communicate their feeling about poster sessions to Neal Lane or Chun Lin.

Abstracts for contributed papers (one original and two duplicates for each paper), in Bulletin format, should be sent to Professor Neal F. Lane, Department of Physics, Rice University, Houston, Texas 77001, and must be received by 7 September 1977.

ICOMP ABSTRACTS VOLUME

J. H. Eberly, Chairman of the International Conference on Multiphoton Processes (6-9 June 1977, Rochester, New York), has asked us to include the following announcements in this newsletter:

"The ICOMP Abstracts volume from the International Conference on Multiphoton Processes, held at the University of Rochester in June, is available in very limited quantities for non-registrants. DEAP was the earliest sponsor of the conference, and DEAP members can purchase copies for their personal or institutional libraries at a discount (\$16.00 instead of \$18.50) until the supply is exhausted.

The Abstracts contain the only record of the 98 contributed papers presented at ICOMP. Topics include: multiphoton atomic ionization spectroscopy; two-level systems in strong fields; molecular multiphoton absorption, theory and experiment; resonance fluorescence; collisions in strong laser fields; coherence, resonance and saturation in multiphoton absorption, and others.

ICOMP Abstracts has 245 pages of text, a table of contents, and a complete author index. It is permanently bound with a paper cover sewn in signatures with a square back, ready for library shelving.

DEAP members who are interested should send \$16 to: ICOMP Abstracts, c/o J. H. Eberly, Department of Physics and Astronomy, University of Rochester, Rochester, N.Y. 14627.

A free copy of the new 310-page Multiphoton Bibliography, including 600 citations from the years 1970 - 1977 will be sent with the first 50 orders for ICOMP Abstracts. "

POSTER SESSIONS IN DEAP MEETING

As indicated previously the DEAP program committee has decided to try a poster session in the 9th Annual Meeting. Please let us know your feeling about poster sessions before, during, and/or after the 1977 DEAP meeting.