

The American Physical Society

Division of Electron and Atomic Physics

FELIX T. SMITH, *Chairman*
Stanford Research Institute
Menlo Park
California 94025

HENRY M. FOLEY, *Vice-Chairman*
Physics Department
Columbia University
New York, N. Y. 10027

FRANCIS M. PICHANICK, *Secretary-Treasurer*
University of Massachusetts
Hasbrouck Laboratory
Amherst, Massachusetts 01002

TO MEMBERS OF THE DEAP

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1972 Executive Committee

There were no contests for any offices up for renewal. The committee for 1972 is as follows :

One-Year Term : Chairman -Henry Foley, Columbia.
 Immediate Past Chairman-Felix Smith, SRI.
 Vice-Chairman -King Walters, Rice.
 Secretary-Treasurer -Francis Pichanick, U. Massachusetts.

Divisional Councillor until December 1974 : Ron Geballe, U. Washington.

Executive Committeemen (terms expiring on the months indicated)

Stephen Berry, Chicago	Dec. 1972
Bill McGowan, U. W. Ontario	Dec. 1973
Thor Rhodin, Cornell	Dec. 1974

In addition the chairman may appoint two committeemen for one-year terms.

Retiring are Peter Bender (JILA, Immediate Past Chairman), Arthur Phelps (JILA) and Francis Pipkin (Harvard) executive committeemen.

The 1972 committee formally takes office at the division business meeting in Atlanta on Thursday, December 2.

Arrangements for the Atlanta Meeting, December 1-3, 1971.

The program for the Atlanta meeting has gone to press and will appear in the November Bulletin of the APS. There are over 100 invited and contributed papers arranged into 21 sessions. There will be three parallel sessions on Wed. Dec. 1, and two parallel sessions on Dec. 2 and 3. The scheduling has been arranged to minimize conflicts of interest, but the sessions are in adjoining lecture theaters and participants may circulate easily.

A form is enclosed for those who have not yet pre-registered for the meeting. It is important to specify estimated dates and times of arrival and departure. If anyone has already pre-registered without specifying these dates and times, please drop a postcard to DEAP Meeting, School of Physics, Georgia Institute of Technology, Atlanta, Georgia 30332.

We need to know ahead of time how many will attend the Banquet, which is on the evening of Thursday Dec. 2. The guest speaker will be Rep. John Davis, chairman of the House Committee on Space and Science. The banquet is subsidized out of meeting funds and the charge is only \$4.50. It will be preceded by a cash bar, and celebrants may purchase liquor and wines of their choice at their tables.

The business meeting has been allocated a special (non-paralleled) session of its own on Thur. Dec. 2 at 11 A.M. After the regular business we have scheduled a special invited paper by Rolf Sinclair, Program Director for Atomic, Molecular and Plasma Physics at NSF. He will give a detailed survey of the current status of Federal funding for research in our area.

The registration fee has been set at \$15, (\$2 for unsupported students). About \$7.50 of this is paid directly to the APS to offset the costs of publishing the program in the Bulletin, and the remainder is used for expenses of the meeting. The routine audio-visual equipment will be available at all sessions, and any speaker anticipating special needs in this area should write in advance to DEAP Meeting at the address already given.

Airline transportation to Atlanta (Hartsfield) Airport runs frequently from all parts of the country. Limousine service direct from the airport to the Sheraton-Biltmore Hotel is frequent and costs about \$2. Registration will take place on the evening of Tue. Nov. 30 at the hotel. For the remainder of the meeting the registration desk will be located near the lecture theaters in the School of Physics at Georgia Tech. During that time of year Atlanta has mild days and cool evenings, and recreational facilities abound.

We are indebted to the Atlanta local committee, Earl McDaniel chairman, George Thomson secretary-treasurer, for its untiring efforts to organize the meeting. Henry Foley bore the brunt of arranging the program under the usual crisis conditions following the deadline.

Symposia at the Atlanta Meeting

Recent Advances in Analytical Methods in Surface Physics (Thor Rhodin presiding).

Measurement of Electron Binding Energies of Surface Atoms -	- R. L. Park
Experimental Studies of Atomic and Molecular Binding in	
Chemisorption	- T. E. Madey
Auger Electron Spectroscopy of Solid Surfaces	- N. J. Taylor

Atomic Transition Probabilities (Karl Kessler presiding)

Review of Theory	-R. Garstang
Lifetime Measurements	-R. Marrus
Hanle Effect	-W. Happer
Hook Method	-M. Huber

New Results in Atomic Spectroscopy Using Fast Ionic and Atomic Beams (V. W. Cohen presiding)

Autoionization Electrons Emitted by Highly Excited Ions: Spectra and Lifetimes	-I. Sellin
Lamb-Shift Measurements in High-Z Hydrogenics	-M. Leventhal
Coherent Phenomena in Fast Ion Beam Foil and Gas Collisions	-T. Hadeishi
Line-Narrowed Measurements of Hydrogen Fine Structure	-F. Pipkin

Radiationless Transitions in Atoms and Molecules (R. S. Berry presiding)

Translational Spectroscopy of Metastable Dissociation Fragments	-R. Freund
Development of Projection Operator Techniques for Calculating Autoionization in Small Atomic Systems	-A. Temkin
Picosecond Relaxation Processes in Large Molecules	-R. Rentzepis
Theory of Radiationless Processes in Polyatomic Molecules	-K. Freed

Heavy Ion Induced Inner Shell Vacancies (S. Datz presiding)

Theories of HIIISV Production	-W. Lichten
Inelastic Energy Loss and Auger Electron Emission in Heavy Ion Collisions	-Q. Kessel
Heavy Ion Induced X-Ray Emission in the MeV/nucleon range	-P. Richard
X-Ray Production in the KeV/nucleon range	-J. Khan

Invited Papers

The Los Alamos Meson Factory and Possible Mesic Atom Spectroscopy	-V. Hughes
Tunable Lasers	-A. Schawlow
Photodetachment by Laser Radiation	-W. Lineburger

News of the Divisiona) Research Support

I have written to program directors of various Federal agencies requesting information on specific points relevant to the future of research funding in our area. Many have not responded, and others declared themselves unable to state policy or give a prognosis. The only detailed responses were from the Army Research Office (ARO) and the AEC. The ARO supports 12 projects in the E. and A. area. This will probably remain constant, and normal attrition allows one or two new projects a year. The AEC expects to reduce commitments in E. and A. due to budget cuts in the Research and Radiochemistry Divisions.

It is expected that Rolf Sinclair (NSF) will give a much clearer overall picture in his special invited paper at Atlanta (see above). I intend to circulate a full copy of this to the membership.

b) Topical Conferences

I have been informed that the advertized dates of the First International Conference on Spectral Lines were in error. The correct dates are Aug. 28 - Sept. 1, 1972 to be held at Knoxville, Tenn. Details from the conference secretary R. A. Hill, Div. 5642, Sandia Labs., Albuquerque, New Mexico 87115.

You should all have received a notice of the 32nd Conference on Physical Electronics, March 20 - 22, 1972 also in Albuquerque. I have received notices concerning the VII International Quantum Electronics Conference (not sponsored by DEAP). This is in Montreal, May 8-11, 1972. Write to me for details.

c) DEAP Membership

Our membership stands currently at just under 1700. Many people in the field, including some who have participated in our meetings, are not members. I am sure this is due to oversight and not the extra dollar. The division operates entirely out of the dollar-per-member dues. In the next few weeks members will be renewing their APS dues, and joining the DEAP requires just a minor notation on the form. Please check with your colleagues who should be members, or send names of suggested recruits to me. The latest APS Directory listing divisional affiliations will be published very soon.

d) DEAP Activities at General Meetings of the APS

We have two symposia at the Winter meeting at M.I.T., December 27 - 29, 1971. These have been organized by Fred Byron and Dan Kleppner, and the speakers include A. Dalgarno and W. Klemperer (Harvard), Pritchard (M.I.T.), M. Stroke (NYU), D. Mader (Columbia) and B. Snavely (Kodak)..

A symposium of Charge-Transfer Processes, organized by Felix Smith, will be given at the Annual Meeting in San Francisco, Jan. 31 - Feb. 3.

At the meeting in Atlanta City, March 27 - 30 there will be a symposium on Electron Spectroscopy in Surfaces, organized by Russ Young and Thor Rhodin.

I hope to see you at the Atlanta meeting.

Francis Pichanick