

# The American Physical Society

1970 III

## Division of Electron and Atomic Physics

PETER L. BENDER, *Chairman*  
Joint Institute for Laboratory Astrophysics  
Boulder, Colorado 80302

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

STEPHEN J. SMITH, *Secretary-Treasurer*  
Joint Institute for Laboratory Astrophysics  
Boulder, Colorado 80302

### BALLOT

#### Division of Electron and Atomic Physics

The names listed below are presented by the Nominating Committee for the office of Executive Committeeman to be filled as of the Divisional Meeting in November.

Executive Committeeman - (3 year term - vote for one)

Daniel Kleppner (Massachusetts Institute of Technology)

J. William McGowan (University of Western Ontario)

Russell D. Young (National Bureau of Standards)

*F. Pichanick*

Return your ballot to the Secretary-Treasurer in the enclosed envelope. Sign the envelope in the upper left hand corner. DEADLINE FOR RECEIPT OF BALLOTS IS OCTOBER 30, 1970.

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Due to no contest for offices listed below as nominated by the Nominating Committee, the nominees listed below shall be declared elected at the DEAP Second Annual Meeting, November 23-25, 1970, Seattle, Washington. The first three are for one year terms.

<u>Chairman</u>	Felix T. Smith (Stanford Research Institute)
<u>Vice-Chairman</u>	Henry M. Foley (Columbia University)
<u>Secretary-Treasurer</u>	Francis M. J. Pichanick (University of Massachusetts)
<u>Divisional Councillor</u>	Ronald Geballe (University of Washington) (4 year term beginning February, 1971)

Continuing members of the Executive Committee and the dates of expiration of their three year terms are:

Arthur V. Phelps (Joint Institute for Laboratory Astrophysics)	November, 1971
R. Stephen Berry (University of Chicago)	November, 1972

The Chairman may appoint not more than two additional Executive Committeemen with the approval of the Executive Committee for one year terms.

The outgoing Chairman (Peter L. Bender) serves as a member of the Executive Committee for one year (until November, 1971).

1970 ANNUAL MEETING OF THE DIVISION OF ELECTRON AND ATOMIC PHYSICS

Seattle, Washington

23-25 November 1970

The Second Annual Meeting of the DEAP will be held at the Pacific Science Center in Seattle on November 23-25, 1970. We hope to have papers in a wide variety of areas of atomic and electron physics. A block of rooms has been reserved at the Washington Plaza Hotel at a special rate of \$15 per single and \$19 per double room. Please send the enclosed hotel registration form directly to the hotel. If you don't use the form, identify your request for accommodations with the Division of Electron and Atomic Physics, APS. Room reservations should be made by 13 November. A deposit for the first night's lodging should be made upon confirmation of space.

The registration fee for the meeting will be \$10. Registration will be held at the hotel from 4 to 10 PM Sunday, and at the Science Center from 8:30 AM to 4 PM on Monday and Tuesday. An easy way to get from the hotel to the Science Center is via the monorail. Since November 26 is Thanksgiving Day, please make your airline reservations as early as possible. The meeting will end at 12:00 Noon on the 25th to permit people returning to the East Coast to make their flights. One or two scientific sessions will probably be held on the evening of the 24th. The business meeting of the Division will be held after the morning sessions on the 24th, and a banquet has been arranged for the evening of the 23rd. Prof. N. Bloembergen of Harvard, who is chairman of the Sub-panel on Atomic, Molecular and Electron Physics of the NAS-NRC Physics Survey Committee, will speak at the banquet on "Atomic Physics in the Seventies".

The chairman of the Local Committee is Norval Fortson, University of Washington. The other members are: Hans Dehmelt, Ronald Geballe, and Mark McDermott, University of Washington; Halstead Harrison and Richard Schoen, Boeing Scientific Research Labs; Myer Bloom, University of British Columbia; Edward E. Donaldson, Washington State University; and Cliff Fairchild, Oregon State University. If you have questions concerning the arrangements for the meeting, please write to: DEAP Meeting, Physics Department, University of Washington, Seattle, Washington, 98105. For those people driving to the meeting, a list of nearby motels will be furnished on request.

A major feature of the meeting will be a joint symposium of the Division of Chemical Physics and the Division of Electron and Atomic Physics on Common Problems in Theoretical Chemistry and Atomic and Molecular Physics. The symposium has been organized by Howard S. Taylor (DCP) and Felix T. Smith (DEAP). There will also be a session of papers on Surface Physics arranged by Thor N. Rhodin and a symposium on Spectral Line Shapes arranged by Marshall Lapp and Earl Smith. This symposium is a successor to Gordon Conferences on the same subject held in the past. Other invited papers, arranged by V. W. Cohen and others, range over a variety of topics from Astrophysics to muons and muonium. We are particularly fortunate in having a talk by Professor Hans G. Dehmelt of the University of Washington, who recently was awarded the 1970 Davisson-Germer Prize by the APS for his pioneering work in the radio frequency spectroscopy of atoms, electrons and stored ions.

The invited speakers and their approximate titles are as follows:

- Alan J. Bennett, General Electric Research and Development Center  
"Molecular Orbital Approaches to Chemisorption"
- Hans G. Dehmelt, University of Washington  
"R. F. Spectroscopy with Stored Ions and Electrons"
- Thomas Dillon, National Bureau of Standards - Boulder  
"Overlapping Molecular Line Shapes"
- Robert Futrelle, North American Rockwell  
"Foreign Gas Broadening with Emphasis on the Far Line Wings"
- Frank E. Harris, University of Utah  
"Rigorous Quantum-Chemical Calculations and Applications to Atomic and Molecular Collisions and Spectra"
- W. R. Hindmarsh, University of Newcastle-upon-Tyne  
"Review and Current Status of Neutral Atom Pressure Broadening"
- Tjalling Hollander, The State University of Utrecht, Netherlands  
"Neutral Atom Pressure Broadening with Emphasis in the Vicinity of Atmospheric Pressures"
- K. B. Jefferts, Bell Telephone Laboratories  
"Radioastronomical Observations on Interstellar Carbon Monoxide and Cyanide Radical Molecules"
- Norton D. Lang, IBM Watson Laboratory, Columbia University  
"Self-Consistent Properties of the Electron Distribution at Metal Surfaces"
- Bruce H. Mahan, University of California, Berkeley  
"Scattering of Heavy Particles and its Connection with Potential Energy Surfaces and Inelastic Processes"
- William H. Miller, University of California, Berkeley  
"A Survey of the Various Methods of Calculations in Collision Processes Between Atoms and Molecules"
- Arthur L. Schmeltekopf, ESSA Research Laboratories, Boulder  
"Penning Ionization"
- George J. Schulz, Yale University  
"Processes Involving Unstable Negative Ions"
- Gerald A. Segal, University of Southern California  
"Semi-Empirical Quantum-Chemical Calculations and Applications to Atomic and Molecular Collisions and Spectra"
- Lynwood W. Swanson, Linfield College  
"Field Electron Emission Surface Spectroscopy"
- V. L. Telegdi, University of Chicago  
"Hyperfine Structure of Muonium"
- Dietrich Voslamber, Euratom - CEA  
"Unified Theory of Plasma Line Shapes"

G. K. Walters, Rice University

"Excited Atomic and Molecular States in Liquid Helium"

Wolfgang Wiese, National Bureau of Standards, Washington

"Experimental Hydrogen Line Shapes"

Robert W. Williams, University of Washington

"Magnetic Moment of the Positive Muon"

G. zu Putlitz, Physical Institute, University of Heidelberg

"Optical Pumping Experiments on Ions"

The deadline for receiving abstracts of contributed papers is September 14, and the abstracts in all fields except spectral line shapes should be sent to: Dr. Felix T. Smith, DEAP Program Chairman, Stanford Research Institute, Menlo Park, California 94025. Abstracts for the Symposium on Spectral Line Shapes, which is being held during the annual meeting, should be sent to: Dr. Earl W. Smith, Plasma Physics Section, National Bureau of Standards, Boulder, Colorado, 80302. Please follow the rules and regulations prescribed in the Bulletin for the preparation of abstracts. The abstracts will be published in the November issue of the APS Bulletin.