1977 II

The American Physical Society

Division of Electron and Atomic Physics

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(1 year)

TO THE MEMBERSHIP OF THE DEAP from Francis Pichanick

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Chairman

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1. Report of the Nominating Committee for the Executive

Earlier this year a nominating committee was appointed in accordance with APS Council Regulations. Members are Ben Bederson (NYU, chairman), Ron Geballe (Seattle), Karl Kessler (NBS) and Gerhard Weissler (USC). They have submitted the following nominees for the terms indicated, to take office at the business meeting at Stanford Research Institute on Nov. 30, 1972.

	Rice University	' v
Vice-Chairman	-Arthur L. Schawlow Stanford University	(l year)
Secretary-Treasurer	-Francis M. J. Pichanick University of Massachusetts	(1 year)
Executive Committeeman	-Roy H. Garstang JILA	(One to be elected for a three-year term)
	-Aaron Temkin NASA - Goddard	

-G. King Walters

The above slate reflects the tradition that the current vice-chairman succeed to the chairmanship, and that the secretary-treasurer be retained for the statutory limit of three years, (I am in my second year of office). These are not requirements of our Bylaws, but help to maintain continuity.

Under the Bylaws additional nominations, for any of the above offices, by members of the DEAP, will be recognized and included on the ballot if the nomination is supported in writing by five percent (86) of the members. Such nominations, duly signed, must reach the Secretary-Treasurer no later than August 18, 1972.

In the absence of a contest for any given office, the relevant nominee will be declared elected. Ballots for contested offices will be mailed on about September 1, 1972.

For your information the vitae of the nominees are listed below.

The remainder of the executive committee is as follows:

Henry Foley (Columbia) is currently chairman and will remain on the committee for one more year as Immediate Past Chairman, replacing Felix Smith (SRI). Ron Geballe (Seattle) is the Divisional Councillor until 12/74. The elected committeemen are Stephen Berry (Chicago) until 12/72, Bill McGowan (Western Ontario) until 12/73, and Thor Rhodin (Cornell) until 12/74. Serving one-year terms, appointed by the chairman are Kieth Jefferts (Bell) and Howard Shugart (Berkeley).

- WALTERS, G. KING, 41, B.A. 1953 Rice University, Ph.D. (Physics) 1956 Duke University. Res. Assoc. and Instructor, Duke 1956-7. Scientist 1957-62, Corporate Res. Assoc. 1962-3, Texas Instruments. Professor 1963 -, Acting Dean of Engineering 1968-9, Rice University. Visiting scientist 1971-2, National Bureau of Standards. APS Committee on Economic Concerns 1970-2. Vice-Chairman DEAP, 1972. DEAP Program Committee 1970-2 (chairman 1972). Chairman of Program Committee, Third International Conference on Atomic Physics. National Academy of Sciences Committee on Atoms and Molecules 1971 -. Consultant Texas Instruments, Council of Graduate Schools. Assoc. Editor J. Geophysical Research; Advisory Editor Case Studies in Atomic Physics. Nuclear Magnetic Resonances, Liquid and Solid Helium, electron spin-resonance in solids, optical pumping, collisions, polarized targets and beams, electronically excited states in liquids, solar wind-magnetospheric interactions, biophysics and radio-astronomy.
- SCHAWLOW, ARTHUR L., 51, B.A. 1941, M.A. 1942, Ph.D. 1949, University of Toronto. Fellow and Research Assoc. 1949-51, Columbia University. Physicist 1951-61, Bell Labs. Professor 1961-, Exec. Head Dept. 1966-, Stanford University. Visiting Assoc. Prof. 1960, Columbia University.

 Honorary degrees Universities of Ghent, Toronto, Bradford. Ballantine Medal 1962, Franklin Inst. Thomas Young Medal and Prize 1963, British Inst. of Physics. Liebmann Memorial Prize 1964, IEEE. Fellow of AAAS, IEEE, Opt. Soc., Brit. Inst. of Physics. Member of APS Council 1966-70. Board of Directors of the Optical Soc. of America 1966-9. Radiofrequency, microwave and optical spectroscopy. Nuclear quadrupole resonance. Theory of nuclear moments and isotope shifts. Superconductivity. Lasers and quantum electronics.

- PICHANICK, FRANCIS M. J., 36. B.S. 1957, M.S. 1958, University of Cape Town. Ph.D. (Physics) 1961, Oxford. Research Asst. 1961-2, Instructor 1962-3, Asst. Prof. 1963-9, Yale University. Visiting Scientist 1966-7, National Bureau of Standards. Assoc. Prof. 1969-, Faculty Senator 1971-, University of Massachusetts. Research Collaborator 1969-, Brookhaven National Lab. Rhodes Scholarship 1958-61. AIP Visiting Scientist 1969-. Secretary-Treasurer, Program Committee, 1970-, DEAP. National Academy of Sciences Committee on Atoms and Molecules 1971-. Nuclear and atomic moments, fine and hyperfine structure, atomic beam magnetic resonance, electron-atom and electron-molecule scattering.
- GARSTANG, ROY H., 46. B.A. 1946, M.A. 1950, Ph.D. 1954, Cambridge University. Jr. Scientific Officer 1945-6, Royal Aircraft Estab. Scientific Officer 1946-8, British Ministry of Works. Research Assoc. 1951-2, Yerkes Observatory, Chicago. Lecturer in Astronomy 1952-60, Reader 1960-4, Asst. Director of Observatory 1959-64, University College, London. Professor of Astrophysics 1964-, University of Colorado. Visiting Scientist 1961-2, Consultant 1964-, National Bureau of Standards. Chalklin Memorial Lecturer 1971, Royal Society of New Zealand. Corresponding Member 1969, Royal Society of Sciences, Liège. Fellow of Opt. Soc., Am. Astron. Soc., Royal Astron. Soc., British Inst. of Physics, British Astron. Assn., Royal Statistical Soc., Royal Astron. Soc. of Canada. Editor 1953-60, Observatory Mag. Astronomy Advisory Editor 1960-, Chambers Encyclopaedia. Vice President, Commission on Fundamental Spectroscopic Data and Chairman, Committee on Transition Probabilities, both of International Astronomical Union. Vice-President 1957-60, 1963-4, British Astron. Assn. Spectroscopy, spectral line intensities, forbidden transitions, spectroscopy of the sun, stars and planetary nebulae.
- TEMKIN, AARON, 42. B.S. 1951, Rutgers. Ph.D. 1956, M.I.T. Fulbright Fellow 1956-7, Germany. Physicist 1957-60, US Naval Research Lab. Senior Physicist 1960-, NASA-Goddard Space Flight Center. Goddard Study Fellowship 1967, University College, London. NASA Outstanding Performance Award. Advisory Editor, Case Studies in Atomic Collisions. Charter Member of General Committee, Int. Conf. on the Physics of Electronic and Atomic Collisions. Program Committee and Nominating Committee, DEAP. Electron scattering from atoms and molecules, symmetric Euler angle decomposition of the three-body problem, polarized orbitals, autoionizing states, optical potential methods, quasi-projection operators, ionization thresholds.

All nominees are Fellows of the APS.

2. Financial Aid Plan for ICAP

The Third International Conference on Atomic Physics (August 7-11, 1972, Boulder, Colorado) will make available some financial aid for at least ten outstanding graduate students and postdoctorals (Ph.D. ± 2 years) who wish to attend the conference. Please send nominations to Dr. Stephen J. Smith, JILA, University of Colorado, Boulder, Colorado, 80302. The following will be required of each nominee: 1) vitae; 2) list of publications, if any; 3) summary of research

interests and activities (including an abstract suitable for photocopying and not exceeding three pages, if the nominee intends to contribute a paper); 4) a confidential letter of support from one (only) faculty sponsor; and 5) a statement of financial support requested. Abstracts are due by June 2, 1972. The complete nominations are due by June 15. Participation in the conference is by invitation only. Invitations will be issued to as many outstanding nominees as can be accommodated, in addition to those receiving support. The committee will announce awards by July 5.

3. Fourth Annual Meeting of the DEAP

The Fourth Annual Meeting of the Division of Electron and Atomic Physics will be held at Stanford Research Institute in Menlo Park, California, November 29-December 1, 1972. Menlo Park is located 25 miles south of San Francisco. The meeting, which will consist of contributed papers, invited papers and symposia, will conclude at noon December 1. The local committee is headed by Felix Smith (Chairman), John Moseley (Secretary) and Ron Olson (Treasurer).

The deadline for contributed papers is September 8. Many people are returning to their institutions from their summer activities at this time, and should consider submitting their abstracts before leaving for the summer. Abstracts can be sent at any time to King Walters, Physics Dept., Rice University, Houston, Texas 77001.

The conference hotel will be the Cabana Hyatt House in Palo Alto. Registration will be held at this hotel on Tuesday evening until 11:00 p.m. The Cabana is located five miles from SRI, and unfortunately no public transportation is available. Three motels that are within walking distance are listed on the accompanying hotel reservation form near the back of this issue. Only a limited number of rooms are available at these motels, and those desiring them should make their reservations early. If you plan to have a rental car during the meeting, lodging at the Cabana or Rickey's is recommended.

Preregistration will greatly facilitate the smooth functioning of this meeting, will save you time and money, and will make available a maximum of services to registrants. The fee for preregistration through November 15 is \$14. Thereafter the fee is \$17. The fee for unsupported students is \$2. Please use the accompanying preregistration form.

Public transportation from San Francisco International Airport to Palo Alto is very poor, and taxi fare is expensive (about \$22). A limousine (bus) does leave the airport at 3:00 and 7:05 p.m. and stops at Rickey's Hyatt House, across the street from the Cabana, in Palo Alto. If there is sufficient demand, we can provide bus service from the airport to all hotels and motels listed, at a cost of \$2.50 per person. Departure times will be arranged to accommodate as many as possible, with a minimum of two departures between 7:30 and 10:00 p.m. A similar service can be provided following the meeting to return to the airport with buses leaving SRI between 12:30 and 3:00 p.m., depending on demand. It will be necessary to make paid reservations for this service by October 30. The preregistration form near the back of this issue can be used for that purpose.

A banquet will be held in the International Building at SRI on Wednesday evening. The facilities and food here are excellent, and we anticipate having an

outstanding speaker. The cost for this banquet, which is partially subsidized by the division, is \$5.00 for registrants, \$6.00 for guests. A maximum of 260 persons can be accommodated, and we suggest that you purchase your ticket as early as possible by using the preregistration form.

We can provide an interesting Ladies Program if there is sufficient interest. Please indicate interest on the preregistration form, and details will be provided.

4. International Conference on Beam-Foil Spectroscopy

We would like to call your attention to this meeting to be held in Tucson, Arizona October 2-6, 1972. The program of invited papers includes the following topics: Beam-Foil Spectroscopy with Low-Energy Accelerators, Quasars and Neutrinos, Survey of Beam-Foil Spectroscopy, Optical Spectra from Highly Ionized Atoms, g-Values, Lifetimes of Metastable Levels in Atoms and Molecules, Theory of Rare-Earth Level Structures, Oscillator Strengths and Astrophysics, Lifetime Data, Particle Interaction Theory, Fine Structure, Lineshapes and Charge Identification, One and Two Electron Beam Foil Spectra, New Term Schemes, Oscillator Strengths and Spectrum of the Solar Corona.

A limited number of contributed papers will be accepted. Abstracts should be about 200 words, double-spaced on a single 8 1/2 by 11 sheet with a one-inch margin all round. Deadline date is August 1, 1972. Members may submit abstracts and preregistration to Stanley Bashkin, Department of Physics, University of Arizona, Tucson, Arizona 85721.

5. News of the Division

Conflict at Washington. Many members were understandably concerned by the conflict between a Symposium of the DEAP and a contributed session on Exotic Atoms. The DEAP has a representative in New York during the arrangement of papers for a meeting, but in this instance an unfortunate accident occurred owing to the late arrival of some abstracts. We shall take all precautions to avoid a repetition of such a conflict.

Program Committee. Symposia tentatively scheduled for the SRI Annual Meeting will include topics such as Picosecond Spectroscopy, Strong Laser Fields, Exotic Atoms, Comprehensive Collision Theory, Beam-Surface Interactions, Plasma Diagnostics, Interstellar Molecules, Pre-Galaxies. Invited Paper Topics should include Experimental High-Energy Collisions, Review of recent developments in Beam Foils, Molecular Formation, Optically Inaccessible States.

At the New York meeting we hope to organize a Symposium on Tunable Lasers in conjunction with the Division of Chemical Physics, and perhaps another symposium in co-operation with the AAPT.

The December meeting is in Los Angeles and we plan to offer symposia organized by members in the SF-LA area. At the March Meeting we hope to co-sponsor, with the Solid-State Division, Symposia on surfaces, solid-state lasers and Raman spin-flip effects.

King Walters is chairman of the Program Committee and would welcome suggested topics from members at any time.

<u>Divisional Dues</u>. The APS Council has ruled that divisional dues may be increased up to \$2, and our executive committee has requested that our dues be increased from \$1 to \$1.50.