

PHYSICS and SOCIETY

The NEWSLETTER of the FORUM on PHYSICS and SOCIETY

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JUNE, 1977

--REMEMBER--

CONFERENCE
ON
CHANGING
CAREER
OPPORTUNITIES
FOR
PHYSICISTS
PENNSYLVANIA STATE
UNIVERSITY,
AUGUST 1-3, 1977

SEE PAGE 3

NOMINATIONS NEEDED
FOR
FORUM POSTS

-----Vice-Chairman-----

-----Secretary-Treasurer-----

----- 2 Executive Committee Members-----

Send Nominations to the Forum Nominating
Committee Chairman:

Dr. David Hafemeister
Room 7208
U.S. State Department
Washington, D.C. 21520
phone (202)632-0004

NOMINATIONS NEEDED
FOR
1978 FORUM AWARDS

Nominations for the 1978 Leo Szilard Award
and the Forum on Physics and Society Award
should be sent to the Forum Award Nominating
Committee Chairman:

Prof. George Seidel
Physics Department
Brown University
Providence, Rhode Island 02912

The DEADLINE is JULY 20, 1977 but the committee
may accept last minute nominations up to July 28.
The reason for the close deadline is that the
Forum Executive Committee wants to decide on the
Awards at its August Meeting.

The purpose of the LEO SZILARD AWARD FOR
PHYSICS IN THE PUBLIC INTEREST is to recognize
outstanding accomplishment by a physicist in pro-
moting the use of physics for the benefit of so-
ciety in such areas as the environment, arms
control and science policy.

The purpose of the FORUM ON PHYSICS AND
SOCIETY AWARD is to recognize outstanding
accomplishment in the endeavor to promote public
understanding of issues involving the interface
between physics and society. The recipient need
not be a physicist.

SEE THE FORUM AWARDS

GUIDELINES ON PAGE 2

NOTE FROM THE EDITOR: This issue of PHYSICS AND SOCIETY is devoted to
Forum Awards and the Penn State Conference. The next issue will contain
news of the Washington and Chicago APS Meetings of the Forum.

FORUM AWARDS GUIDELINES

(The following guidelines for the Leo Szilard Award and the Forum on Physics and Society Award were adopted by the Forum Executive Committee at the February, 1977 Meeting.)

The Leo Szilard and Forum Awards were established to encourage and stimulate physicists to do more public interest science. There was a definite desire that the "outsider" sector of public interest science was one to be encouraged and stimulated, because this is the sector that requires strengthening.

The awards were intended to go to certain categories of physicists and writers:

1. They could go to those who were young and unknown, and whose accomplishments needed recognition.
2. They could go to those whose work and views did not get recognized or heard in our established channels of communication.
3. They could go to older physicists and writers who might be recognized in their research specialty, but who were "outsiders" in their public interest science work.
4. The awards were not intended primarily for famous physicists who have already received all sorts of honors and recognition.
5. Nor were the awards intended primarily for famous statesmen of science.

The awards were intended for the "outsiders", for the "boat-rockers", for those who go against established interests when the actions of those interests are not in the public interest.

PHYSICS AND SOCIETY

Editor:

MARTIN L. PERL

Production Editor:

KAREN GOLDSMITH

PHYSICS AND SOCIETY, the Newsletter of the Forum on Physics and Society of the American Physical Society is published for, and distributed free to, the members of the Forum. It presents news of the Forum and of the American Physical Society; and provides a medium for Forum members to exchange ideas. PHYSICS AND SOCIETY also presents articles, letters and columns on the scientific and economic health of the physics community; on the relations of physics and the physics community to government and to society, and on the social responsibilities of

science. Space is preferentially given to those analyses and opinions which are less likely to be published in the established journals such as Physics Today and Science. Letters, short articles, suggestions for columns, and Forum news items should be sent to the Editor.

PHYSICS AND SOCIETY is also distributed free to Physics Libraries upon request. Such requests and requests for other information should be sent to K. Goldsmith.

CONFERENCE ON CHANGING CAREER OPPORTUNITIES FOR PHYSICISTS
 PENNSYLVANIA STATE UNIV. AUGUST 1-3, 1977

For information and registration forms write: Roland H. Good, Jr.
 Physics Department, 103 Davey Lab
 The Pennsylvania State University
 University Park, Pennsylvania 16802

PROGRAM AND INVITED PAPERS

SESSION A: FACTS, MYTHS and PROJECTIONS MONDAY, 8:30 AM

The Work of the Physics Manpower Panel. MILAN D. FISKE, General Electric Company
 Profile of Non-Ph.D. Physicists. TED E. SENATOR, MIT
 Nonacademic Employment: Challenging Traditional Values. DAN HARRISON, AIP
 After Olympus What? Varied Career Patterns of Today's Young Physicist. BEVERLY
 FEARN PORTER, AIP
 Supply and Demand for Ph.D. Physicists - 1960 to 1987: LEE GRODZINS, MIT

SESSION B: WHY THINGS ARE THE WAY THEY ARE MONDAY, 1:30 PM

The Dynamics of Funding, Enrollments, Curriculum and Employment. HARVEY BROOKS,
 Harvard University
 How the Department of Defense Shaped Academic Research and Graduate Education.
 STANTON A. GLANTZ, U.C. San Francisco
 Problems of Employment in the Age of the Ph.D. Peasantry. DANIEL GREENBERG, Science
 and Government Report
 The Market for Physics Ph.D.'s in the "Steady State" Environment. BRUCE L.R. SMITH,
 Columbia University
 Directed and Random Components in the Evolution of the Academic Physics Discipline.
 JAMES R. STEVENSON, Georgia Institute of Technology

SESSION C: NONACADEMIC CAREERS TUESDAY, 8:30 AM

Physics Careers at Westinghouse Research - Experiences of the Past Decade and Recent
 Trends, J.K. HULM, Westinghouse
 Unconventional Opportunities in Unconventional Companies. PAUL HORWITZ, AVCO
 Life in a Multidisciplinary Government Laboratory. MAURICE M. SHAPIRO, NRL
 Challenging Career Opportunities for Physicists in the Government. MARTIN J. COOPER,
 ERDA

SESSION D: PUBLIC POLICY CAREERS FOR SCIENTISTS TUESDAY, 1:30 PM

Public Policy Careers for Physicists. PHILIP SMITH, OSTP
 Manpower Needs in Energy Research, Development, and Demonstration. NORMAN SELTZER,
 ERDA

SESSION E: PANEL DISCUSSION OF SPECIFIC PUBLIC CAREER EXPERIENCES TUESDAY, 4:00 PM

A Physicist in County Government. VERNON J. EHLERS, Calvin College
 A Need for Scientists in State Government? EDWARD HELMINSKI, National Governors
 Conference
 One Physicist's Path to Perdition, or What's a Nice Physicist Like You Doing in a
 Place Like This? R.A. SCRIBNER, AAAS
 Working with Grass Roots Citizens Groups. JAMES B. SULLIVAN, CSPI

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PENN STATE CONFERENCE PROGRAM (continued from Page 3)

SESSION F: PANELS DISCUSSING EDUCATIONAL CHANGE WEDNESDAY, 8:30 AM

- F1: Non-academic Panel
- F2: Faculty, Post-doc, and Student Panel
- F3: Departmental Chairmen Panel

SESSION G: IMPLEMENTING CHANGE WEDNESDAY, 2:00 PM

- The Role of Graduate Physics Departments in Implementing Change. R.O. SIMMONS, Univ. of Illinois
- The Role of the APS Professional Society in Implementing Change. GEORGE PAKE, Xerox

SESSION H: CONFERENCE SUMMARY WEDNESDAY, 4:00 PM

COMMITTEES ON PHYSICS ASPECTS OF NEW WEAPONS TECHNOLOGY

The Executive Committee of the Forum is interested in seeing formed one or more committees to study the physics aspects of new weapons technologies, their potentials and limitations. These would include laser applications and the recently discussed ion beams. No chairmen have been designated. This is a call for expressions of interest from Forum members in serving on and/or in chairing such committees.

Would interested people and people with suggestions please write to the Forum Secretary,

Dr. Thomas P. Sheahan, Tech. A158
 Forum Secretary-Treasurer
 Office of Energy Conservation
 National Bureau of Standards
 Washington, D.C. 20234

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