

CSWP GAZETTE

A Newsletter of the Committee on the Status of Women
in Physics, of the American Physical Society

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NSF MONEY AVAILABLE!

NSF VISITING PROFESSORSHIP FOR SCIENCE, ENGINEERING WOMEN

NSF has announced a program for visiting professorships for women in science and engineering, funded at a level of \$.5 million. Objectives of the program are to develop and encourage careers in research for women, and provide greater visibility for women scientists and engineers. Women who hold doctorates (or have equivalent experience) who have independent research experience in academic, industrial or public sectors may apply for up to 24 months as a visiting professor at academic institutions in the US. Proposals to NSF are expected to include descriptions of a research project and teaching to be undertaken at the host institution. Proposals should also indicate ways in which the visit will meet the objectives of the program. Proposals will be reviewed on the basis of scientific merit of the research proposed, qualifications of the applicant, and expected impact of the presence and research program of the visitor at the host institution. Awards will include funds for research, salaries, and travel costs. An April 15, 1982 deadline has been set for proposals seeking support during 1982-83. Program announcements (NSF 82-6) may be requested through Forms and Publications Unit, NSF, 1800 G Street, NW, Washington, DC, 20550, or by calling the program coordinator at (202) 357-7734/5.

Prospective candidates must act quickly to generate a proposal and to get an informal commitment from a host institution. The host pays no costs, and receives overhead from the NSF. NSF's Diane Weisz has been helpful in getting this information to us quickly. She expects the above phone number to be operational by the arrival date of this issue. If you have problems, phone CSWP member Pam Surko at (201) 582-7360.

FOREWORD TO OUR READERS

At the January APS-AAPT joint annual meeting, the Committee on the Status of Women in Physics met. Among other activities we bid au revoir to retiring past-chair Carol Jo Crannell and treasurer Joan Lurie and hello to our new members, Judy Bostock and Enid Sichel. The 1982 CSWP membership is:

Judith Louise Bostock
Room 6-204, MIT
Cambridge, Mass. 02139 (617-253-7607)

Pat Cladis (Chair)
MH 1D-433, Bell Laboratories
Murray Hill, NJ 07974 (201-582-4851)

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Sandra H. Slivinsky (ex-Chair)
Nuclear Energy Systems, M/C 173
General Electric Company
175 Curtner Ave
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Murray Hill, NJ 07974 (201-582-7360)

Joseph A. Burton, APS Liaison
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Please retain this list for future reference if you think you may have use for it during the coming year.

We have added many of you to the Roster with only your address as input data. If you have not filled out a questionnaire or if your address or job situation has changed please let me know, so we can send you a new form. PLEASE HELP US BY TAKING THE INITIATIVE! Thank you for your forbearance.

Irene Engle, News Editor

FAREWELL FROM "RETIRING" CSWP MEMBER

[Ed. note: Carol Jo Crannell began serving on CSWP in 1978. She was Chair in 1980, Past-Chair in 1981, and formally "retired" at the January meeting, although she remains one of our most activist colleagues.]

"My farewell to the Committee on the Status of Women in Physics is a cheery wish for continued success in current and coming ventures. For all of you who look to the Committee for information, leadership, and assistance, I hope you will continue, as well, to give the Committee your suggestions and encouragement. For my part, I will miss the close contact with the supportive network that active membership on the Committee afforded me. I extend my appreciation to all the past and present Committee members with whom I have served, and to all the friends of the Committee, within and without the American Physical Society, who have created and are maintaining a force for improvement in the Status of Women in Physics." Carol Jo Crannell

INFORMATION, INSPIRATION for MINORITY GIRLS

The AAAS Office of Opportunities in Science, funded by the Women's Educational Equity Act Program (Department of Education), will produce three career information booklets --one each for mathematics and computer science, engineering fields, and the physical sciences. The project staff are now collecting samples of career pamphlets about work on these fields and information about financial aid for education and training. These booklets are being designed to be relevant and especially inspirational to American Indian, Black, Mexican American and Puerto Rican girls, and will present minority women professionals in the designated fields as role models. Minority women scientists and individuals with information on careers are encouraged to contact Paula Quick Hall, Project Director for details. S/E Careers Project, AAAS-OOS, 1776 Massachusetts Avenue, NW, Washington, DC 20036. (202) 467-5433.

CSWP INFORMATION MATERIAL

Our career booklet appropriate for high school and early college women is again available, as are packets of resource materials for middle school counselors. Both are available singly by request and for bulk purchase by writing Dr. J. Burton, APS Treasurer, 335 E 45th St., New York, NY 10017. A new career booklet, designed for younger readers (middle school) is being written by Dinah Moche, with Pat Cladis and Sandra Slivinsky coordinating the project. It should be available soon.

CSWP-AAPT SYMPOSIUM

A joint symposium of the Committee on the Status of Women in Physics and AAPT entitled "Challenges of Usual/Unusual Career Paths for Physicists" was organized by retiring CSWP Chair Sandra Slivinsky and presented at the January 1982 annual joint meeting of APS and AAPT. Cases in point of "usual" career paths were Cherrill Spencer, now of Science Applications Inc., and Rosalie C. Hoyt, Professor of Physics of Bryn Mawr College. Speaking on their somewhat unusual careers were Joyce Monard, Program Manager for Fuel Systems at General Electric Company, and Jean Fetter, Associate Dean of Graduate Studies and Research, Stanford University.

CREATIVE SOLUTIONS TO CAREER PROBLEMS IN GEOPHYSICS

Flexibility in career goals and the use of humor as a tool were among the suggestions offered by panel members during the second formal meeting organized by the AGU Subcommittee on Women in Geophysics. Preceded by a wine and cheese half-hour, the panel discussion covered topics ranging from one's internal barriers ("Go ahead and do things even if you think you can't") to problems faced by two-career couples (try looking for jobs in large metropolitan areas and be sure to tell prospective employers that two jobs are needed.) Other useful advice: enlist the support of your (male) colleagues on women's issues, try a one-on-one approach to break into male "networks", maintain visibility at professional meetings by giving talks and joining committees, and think ahead about your career by at least 2-3 years at all times.

The panel was moderated by Dr. Louise Levien, a member of the sponsoring subcommittee, and consisted of four additional participants with a wide range of experience in industrial, governmental and academic institutions. Short presentations by Drs Margie Kivelson, Rosemary Vidale, Donna Gergi and Rita Sagalyn were followed by lively discussions with the audience. The discussions continued in informal groups for the remainder of the two-hour program. The highly successful format of this meeting, similar to that held last spring, allowed plenty of time for "networking" and provided the attendees with some original approaches to difficult career problems. A third panel discussion is being planned for next spring's AGU meeting in Philadelphia.

HECKLER HONORED BY AWIS

A reception in honor of Congresswoman Margaret Heckler of Massachusetts was held in downtown Washington, DC on January 4 by the Association of Women in Science. Women physicists present include your editor, Irene Engle, Pam Surko of Bell Labs, Prof. Eugenie Mielczarek of George Mason U., Carol Jo Crannell, Past-Chair of CSWP, Elske Smith of Virginia Dominion U., and Prof. Vera Kistiakowsky of MIT. Prof. Kistiakowsky, presently enjoying a sabbatical year at Cornell University, a principal founder and the first Chair of CSWP, has just assumed the Presidency of AWIS. The reception was so enthusiastically attended that if I have failed to record the presence of some of you, I apologize.

Women representatives of various subdisciplines (including Pam Surko, representing CSWP) made brief testimonial remarks. On behalf of AWIS, President Sheila Pfafflin presented to Mrs. Heckler two mementos of the occasion, a copy of *Rosalind Franklin and DNA* and an AWIS medallion on a chain, symbolizing her honorary membership in AWIS.

The reception also was the occasion of the brief inaugural address of incoming AWIS president Vera Kistiakowsky. Her remarks can be "acronymized" IIMM for (i) INFORMATION SOURCE, an area to be more actively entered by AWIS in future, (ii) ISSUES, the many must be ranked in order of importance, (iii) INVOLVEMENT in issues of science and women's issues (iv) MEMBERSHIP (expansion desirable, especially in this different political climate), and (v) MONEY (engage in fund raising in addition to membership dues?) She called for both suggestions and criticisms from the AWIS membership at large. Additional information or membership applications for AWIS may be obtained by writing: AWIS, Suite 1122, 1346 Connecticut Ave., NW, Washington, DC 20036.

During the course of the evening, it was learned by those present that Mrs. Heckler is soon to face an election in a basically "new" district created by redistricting, running against a Democrat who is also an incumbent. Mrs. Heckler is one of the best and most powerful friends that women in science and women in general have in Washington. She is the senior woman in Congress and has asked to be placed on the Congressional Science and Technology Committee, as its ranking majority member. This committee, among its other functions, oversees the appropriations to NSF. During her remarks to those assembled, Mrs. Heckler inspired a call to continuing battling for the ERA. Boston-area people, take note!

JONES, MAX NEW APS FELLOWS

Professor Lorella M. Jones of the Physics Department of the University of Illinois has been approved as a Fellow of the American Physical Society, Division of Particles and Fields. Dr. Claire Ellen Max, a plasma physicist at Lawrence Livermore Laboratory has been approved for fellowship by the Division of Plasma Physics. These two new APS Fellows, who happen to be women, are 1.6% of the 128 approved candidates for fellowship in the list published in the January 1981 Bulletin of the American Physical Society.

The most recent prior mention of Professor Jones in the Gazette noted her authorship of a chapter, "Intellectual Contributions of Women to Physics", being published in the book *Intellectual Contributions of Women in Science*.

AGU COMMITTEE MEETS

"Careers in Geophysics" is the title of a new informational booklet prepared by the AGU Education and Human Resource Committee, in an effort to attract more college students into this expanding job market. The booklet recommends courses in mathematics, physics and chemistry as a good preparation for careers in areas as diverse as space physics, geology, hydrology, meteorology and oceanography. The photographs throughout the booklet are very positive, with many women pictured working in technical settings.

At the recent meeting in San Francisco, the committee discussed distribution of the careers booklet and planned future work on a new booklet, which is to specialize in careers in oceanography. Other topics of interest included the compilation of a new roster of Women in Geophysics by the AGU/AGI, and the possible establishment of a Geophysics student summer job referral service. The committee meeting was chaired by Dr. Chris Russell and was attended by Drs. Louise Levien and Connie Sancetta, who are also members of the Subcommittee on Women in Geophysics, and by Cynthia Bravo, the Director of Member Programs for the AGU. Lynn Cominsky attended the committee meeting as a reporter and unofficial representative of the APS/CSWP, and relayed information on APS women's activities to the AGU committee members.

LUCK IS 50% OF THE REVIEW PROCESS

The headline statement is both the title and the summary of an article by J. Raloff appearing in the 21 November 1981 issue of *Science News*. An article by S. Cole, J. Cole, and G. Simon, published in the Nov 20 issue of *Science* discusses factors entering into the peer review of grant proposals. They say, "Given the importance of chance in the current process, clearly the more proposals a researcher submits the higher the probability of being funded. In fact, eminent scientists may be more likely to be funded than less well-known ones not because their probability of success is greater for each submitted proposal, but because they submit

many proposals and are not deterred by an individual rejection." For those of us who must often type, collate, and prepare for mailing each proposal effort in addition to doing the creative thinking and literature research necessary to formulate the proposal, such a statement may be daunting indeed. However, those of you who are seriously determined to be awarded the funding necessary to carry out your own original research proposals may find some helpful hints by reading the article in its entirety.

AWARD AVAILABLE

The Luise Meyer-Schutzmeister Memorial Award has been established in memory of nuclear physicist Luise Meyer-Schutzmeister, Senior Physicist at Argonne National Laboratory. The \$500 award will be presented annually to an outstanding graduate or upperclass undergraduate woman physics student.

Application forms may be obtained by sending a stamped, self-addressed envelope to: Suzanne Gronemeyer, Meson Department, Fermi National Accelerator Laboratory, Batavia, IL 60510. (Tel 312-840-3109) Application, transcripts and recommendations must be received by Dr. Gronemeyer by 15 March, 1982 for the 1982 award.

VETTER STUDIES WOMEN IN SCIENCE

Betty M. Vetter of the Scientific Manpower Commission presented results of her statistical study of employment of women in science and engineering at a symposium of the Association for Women in Science held on 4 January, 1982 in Washington, DC. Her presentation was based upon her survey of the prospects for women in science and engineering published in the Dec 18, 1981 issue of *Science*. She found evidence that the proportion of women who study science and engineering and those who enter the workforce is also increasing. On the other hand, she notes that "women still have more difficulty than men in finding employment and in advancing (*their*) careers...." This is not startling news to most of us, but any reader interested in hard data, carefully compiled, in support of the conclusion will find Vetter's article well worth reading.

REPORT FROM McMURDO STATION, ANTARCTICA

Dr. Gisela Dreschhoff of the University of Kansas reports that she has just wound up her Antarctic 1981-2 summer research season. As a consequence of exceptionally good weather conditions at their remote camp in North Victoria Land, her team was able to complete their airborne radiometric survey in a relatively short time. Their camp life was somewhat disrupted for a few days when the crew of the German expedition joined them after their ship was crushed between ice floes and sank off the coast of North Victoria Land. During this latest research year, there were more female scientists working in Antarctica than in previous years; they are primarily geologists, biologists, and chemists, with Gisela the only women physicist working down there this season. Dr. Dreschhoff was pleased to report that the Hercules C-130 crew of the Navy's Antarctic Development Squadron has two female officers (a pilot and a navigator) for the first time in the history of the squadron.

CHINESE WOMAN PHYSICIST ADDRESSES AAPT

Dr. Yun Ying, Associate Professor, Department of Basic Sciences, of the Nanjing Institute of Technology, Nanjing, Jiangsu, People's Republic of China attended the annual joint meeting of APS and AAPT in San Francisco with some of her male colleagues from China. Prof. Ying was one of the speakers at the AAPT symposium on physics in China organized by Prof. Simon George. Dr. Ying describes herself as a Physics Education Specialist. She reported that 15 of the 40 teachers in the Physics Division of her institution are women. Prof. Ying completed her education at Fujian University, a Catholic University in Peking, in 1947. A number of us were delighted to have the opportunity to meet and chat with her at a "Rap Session" sponsored by the Committee on Women in Physics of the AAPT at the recent San Francisco APS-AAPT meeting.

JOB OPPORTUNITIES

Haverford College Physics Department hopes to fill a tenure-track teaching and research position (Asst. Prof) beginning Fall, 1982 with a person with a broad intellectual range and a specialization in atomic and molecular physics,

particles and fields, condensed matter physics, or a cross-disciplinary field such as biophysics. Ability to teach theoretical courses and to participate effectively in undergraduate laboratories is essential. Curriculum vitae, personal letter including description of proposed research, and three letters of reference to: Professor R. B. Partridge, Physics Dept., Haverford College, Haverford, PA 19041. (215) 896-1144.

Allegheny College, Meadville PA 16335, seeks an Instructor or Assistant Professor, beginning September 1982. New position for experimental physicist with teaching experience, preferably Ph.D., to teach undergraduate courses, laboratories, and guide student research. Ability to teach introductory astronomy or computer science desirable. Deadline: March 31, 1982. Resume, three letters of reference to Dr. Barbara Lotze, Physics Department.

University of Iowa Department of Physics and Astronomy anticipates one or two tenure-track openings August 1982, also several visiting professorships. Preference for experimental or theoretical astronomy, astrophysics, atomic physics, condensed matter physics, elementary particle physics, nuclear physics, plasma physics, or space physics. Undergraduate and graduate teaching, guidance of research students, and personal research. Resume, statement of research interests, and three professional references to Search Committee, Dept Physics Astronomy, U Iowa, Iowa City, IA 52242.

Trinity College, Hartford Department of Physics has tenure-track position beginning September, 1982. Member expected to participate in all aspects of undergraduate instruction in physics and to maintain an active program of research. PhD required; some previous teaching experience desirable. Preference to experimentalists who can help enhance laboratory instruction at all levels. Application and three letters of recommendation to: H.S. Picker, Department of Physics, Trinity College, Hartford, Conn. 06106. Deadline 15 March, 1982.