CSWP GAZETTE

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

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1986 COMMITTEE ON THE STATUS OF WOMEN IN PHYSICS

Robert K. Adair
J.W. Gibbs Laboratory
Yale University
P.O. Box 6666
New Haven, CT 06511
(203) 436-1582

Janice Button-Shafer
Dept. of Physics
GRC Tower C
Univ. of Massachusetts
Amherst, MA 01003
(413) 545-2140

Irene M. Engle
Dept. of Physics
U.S. Naval Academy
Annapolis, MD 21402
(301) 267-3486

Evelyn L. Hu
Electrical & Computer Engineering
University of California
Santa Barbara, CA 93106
(805) 961-2569

Shirley A. Jackson
AT&T Bell Labs, ID-337
600 Mountain Avenue
Murray Hill, NJ 07974
(201) 582-6664

Joan S. Kowalski
George Mason University
Dept. of Physics
Fairfax, VA 22030
(703) 933-2008

Marie E. Machacek
Northeastern University
Dept. of Physics
Boston, MA 02115
(617) 458-1230
495-2877 (Harvard, Fri.)

Frank McDonald
NASA Headquarters
Code P
Washington, D.C. 20546
(202) 483-1030

Barbara A. Wilson (Chair)
Physics Division
AT&T Bell Labs
600 Mountain Avenue
Murray Hill, NJ 07974
(201) 582-3973

APS Liaison
Miri am A. Forman
The American Physical Society
335 East 45th Street
New York, NY 10017
(212) 682-7341

FOREWORD TO OUR READERS

This issue is the first in our sixth year of publication. As founding editor 21 issues ago, I am particularly pleased that the Gazette has survived and developed as a networking organ of the Committee on the Status of Women in Physics (CSWP) of the American Physical Society. Regular readers may have noted that Issue 2 of 1985 was jointly edited by Dr. Barbara Wilson and Dr. Joan Sullivan Kowalski, Issue 3 by Dr. Luisa Hansen and Dr. Marie Machacek, and Issue 4 by Dr. Joan Kowalski as sole editor. Having a variety of inputs from different persons should inevitably serve to strengthen our publication. Thus, with any luck at all, this will be the last issue which I personally edit. Also, I probably hold the record for length of service on CSWP and hope to transfer many of my past functions to energetic, new recruits during 1986, my sixth year of service on CSWP. Many thanks to all you readers, old and new, and especially those who have written personal notes and/or items and articles for inclusion in the Gazette. Please keep up your good efforts. All of the future editors need your input. Dr. Joan Kowalski returns to the editorship to attend to the next issue, Volume 6, Issue 2.

CSWP is pleased to announce the 1986 Committee. The complete list of members with addresses and telephone numbers is provided for your convenience. Dr. Barbara Wilson is the 1986 Chair and Dr. Evelyn Hu is Secretary.

We salute retiring members of CSWP, Dr. Mary K. Gaillard, 1985 Chair; Dr. Helen Quinn; Dr. Julia Thompson, Past Secretary; and Dr. Phyllis Freier.

Dr. Joan Kowalski will assume the role of coordinator for the CSWP mail service whereby potential employers and other worthy clients can pay to have mailings sent to targeted subsets of the Roster of Women in Physics. An information letter has been prepared at the New York APS office for distribution to potential clients. Dr. Kowalski will also become general caretaker of the Roster.

I am undertaking one last updating of the Roster of Women in Physics by cross-checking all apparently feminine names in the latest APS Membership Directory against a copy of the current complete Roster. APS members please note that informing the APS office of a new address does not mean that the Roster entry will have that new address. In order to insure complete confidentiality of Roster contents, the files are kept in an entirely separate geographic location and are under separate authority. Women on the Roster who are not members of APS should be even more conscientious of informing CSWP of address changes, since it is much more difficult, if not impossible, to trace those individuals, even after we serendipitously discover that the Roster address is not current.

Thank you all for your forbearance.

Sincerely,
Irene M. Engle
Managing Editor
Physics Department
U.S. Naval Academy
Annapolis, MD 21402-5026
Telephone (301) 267-3486
LETTERS TO THE EDITOR

Dear Editor,

Do we really need an anonymous complaint about an unnamed university, which by implication pans all chemistry (and all other science) departments across the U.S., by someone who states “Medicine was always my first choice of career” (Sept.—Oct. CSWP Gazette, Volume 5, Issue 3)? Nothing in the letter seems specific to the trials or triumphs of women in science aside from a lack of shop skills upon beginning research. The backup to that item, “. . . nor was anyone available to provide informal help to learn” is hard to believe. Certainly I, and all the women scientists I know, found full support in this respect from peers and/or technical staff, no matter how much they may have found amusement in our fumblings.

Your Letters column has certainly sparked the formulation of problems and perspectives perceived by women in science, but with the above-mentioned letter I feel that the generosity of the editors was misplaced.

Brenda P. Winnewiser

Dear Editor,

Unlike Johann McKee (Letter, July—August 1985 issue of CSWP Gazette) who has decided to identify herself as a computer programmer, I have decided to tell people that I’m a physicist rather than applied physicist, or even more specifically, nuclear scientist (not engineer) for which I was formally trained. In my own mind, I am an applied scientist and experimentalist, having to use the many fields of physics as well as chemistry, materials science, vacuum science, mechanical engineering, machining, instrumentation, electrical engineering, computer science, etc., in my work in a small R and D department in an industrial setting. Trying to explain what it is I do even to people at work not in my department is difficult. Mixing disciplines seems to be almost too unusual for both technical and non-technical people to accept. A fellow employee (non-technical) introduced me to a new employee as an “inventor,” which is even wilder than being a physicist, but I like it.

To answer Kathy Barr Kirtley’s question in a letter in the same July-August issue, my present position as engineer, physicist, inventor, or whatever in advanced product development brings me great intellectual stimulation as well as pleasure. While trying to understand the extent of a problem to be solved, I find I not only draw on my factual knowledge, but also apply methods used to solve previous, and probably unrelated, problems. Certainly every scientist in both academia and industry does this. However, I argue that there are many who do not venture beyond their single field within chemistry or physics or electrical engineering, etc., or even beyond the broader subjects themselves, and that many of these people do so out of fear (lack of self-confidence?) rather than by deliberate choice. I suspect that female (as compared to male) scientists tend to fall in the former rather than the latter group.

Yours truly,
Lydia J. Young, Ph.D.
Perkin-Elmer EBT
Hayward, CA

CSWP COFFEE HOUR IN LAS VEGAS

The Committee on the Status of Women in Physics will sponsor a Coffee hour from 3 p.m. to 5 p.m. on Tuesday, 1 April 1986 at the American Physical Society Meeting in Las Vegas, Nevada. The location of the event is the Palace 5 Room at the MGM Grand Hotel (the meeting hotel). We urge those of you attending the meeting and whose schedules permit to drop in and chat with old and new friends.

CSWP SYMPOSIUM IN WASHINGTON

CSWP will sponsor a symposium, “The Dual-Career Couple and the Hiring Process” that will take place at the Washington meeting of the APS in April 1986. The symposium will take place from 4 p.m. until 6 p.m. on Tuesday, 29 April 1986, at the Washington Convention Center. The purpose of this symposium is to review the special situations that surround the hiring process for a physicist whose spouse also has a career. By presenting several perspectives, we hope to stimulate a discussion on what can or should be done in either academic or industrial settings to facilitate this process.

Speakers will include: Raymond F. Sawyer, Vice Chancellor for Academic Affairs, University of California, Santa Barbara, speaking on “Perspectives of a University Administrator”; Thomas W. Applequist, Chair, Department of Physics, Yale University, speaking on “Perspectives of a Department Chair”; and Marjorie Shore, Head, Resources: Careers, Cleveland, Ohio, speaking on “Perspectives from Experience in Industry.” A panel discussion will follow the talks. Panelists include: Mildred Dresselhaus (MIT); Robert L. Jaffe (MIT); Janice Button-Shafer (Univ. Mass., Amherst); Kathryn Barr Kirtley and John Robert Kirtley (IBM, Yorktown Hts.). Dr. Helen Quinn will preside. The panelists share the common experience of being a professional physicist in a two-career family.

A wine and cheese social will follow the panel discussion at the same location.

TINSLEY BOOK TO BE PUBLISHED

“My Daughter Beatrice, A Personal Memoir of Dr. Beatrice Tinsley, Astronomer” by her father, Edward Hill, will be the cornerstone of a book about the life and works of the late Prof. Beatrice Tinsley of Yale Univ. CSWP is sponsoring the publication by the AIP. The book will be priced at $9.00 or $10.00 and should be available sometime in 1986. Look for a review in a future issue of the Gazette.

MARIA GOEPPERT-MAYER AWARD

The first Maria Goepert-Mayer Award recipient is Dr. Judith Young of the University of Massachusetts at Amherst. Her citation reads:

“For her study of the structure of galaxies and, in particular, for her extensive measurements of the molecular distribution in these galaxies and their correlation with star formation.”

The purpose of the award is to recognize and enhance outstanding achievement by a woman physicist in the early years of her career and to provide opportunities for her to present these achievements to others through public lectures.
The award consists of $2000 plus a $3000 travel allowance to provide opportunities for the recipient to give lectures in her field of physics at four institutions of her choice and at the meeting of the APS at which the award is bestowed.

It is planned to present the award to Dr. Young at the April Meeting of the APS in Washington, D.C.

The award was established in 1985 by the General Electric Foundation to be first awarded in 1986 and in successive years until five awards have been made.

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AIP CORPORATE ASSOCIATES MEETING

Your editor attended the 1985 Corporate Associates meeting hosted by Kodak Research Laboratories in Rochester, NY, in October 1985. In addition to many interesting technical review talks, Beverly Porter of the AIP Manpower Statistics Division reported on trends (past, present, and future) of the supply and utilization of persons trained in physics. She reported that there have been from 63–67 women Ph.D.'s produced each year for the past several years and, although this represents an increase in the percentage of Ph.D.'s earned by women, the percentage increase is due to the fact that there has been a significant reduction in the annual rate of production of male physics Ph.D.'s. The numbers are not large enough to significantly increase the overall percentage of women physicists.

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STUDY OF WOMEN PHYSICISTS

Professor Sylvia Fava and Dr. Rosalie G. Genovese of the Center for the Study of Women and Society sent out early in 1985 Questionnaires to all women then on the Roster of Women in Physics. Almost 1000 completed questionnaires have been returned to date. If any of you still find the blank questionnaire regularly popping up in your IN box, please submit it on its next recurring appearance. Anyone who did not receive a Questionnaire and would like to see one (and, we hope, submit it) can contact Prof. Fava at the following address:

Prof. Sylvia F. Fava  
Ph.D. Program in Sociology/Box 375  
Graduate Center: 33 West 42 Street  
New York, NY 10036-8099

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1985 APKER AWARD

The Apker Award winner for 1985 was Julia A.P. Hsu from Princeton Univ. Ms. Hsu received this award for her experimental research on the "Spin Exchange Behavior in the Cesium-Xenon System."

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BENCZER-KOLLER AND MATTHEWS ELECTED

For those of you who may have missed the "News from APS" pages 94–95 of the December 1985 issue of Physics Today, the following excerpts are provided.

"Noemie Benczer-Koller is chair-elect of the Nominating Committee of APS. Dr. Benczer-Koller, professor of physics at Rutgers University, received her B.A. in 1953 from Barnard and an M.A. in 1955 and Ph.D in 1958 from Columbia University. For the next two years, she continued her research at Columbia as a postdoctoral fellow, working on experiments in beta-spectroscopy. In 1960 she joined the faculty of Rutgers University, where she started a research program in areas of solid-state physics using the Mössbauer effect, electron spectroscopy, and nuclear techniques. She is currently pursuing a research program in low-energy nuclear physics working with a tandem accelerator. Dr. Benczer-Koller is a fellow of APS and of AAAS. She has been active on APS committees and in the Division of Nuclear Physics. From 1979 to 1982, she served as an APS Councillor-at-Large."

Dr. June Matthews has been elected to a four-year term as an APS Councillor-at-Large. Dr. Matthews is a "professor of physics at MIT, received her B.A. from Carleton College in 1960 and her Ph.D. from MIT in 1967. From 1968 through 1971, she was a postdoctoral research fellow at the University of Glasgow. After a year as a postdoctoral research associate at Rutgers University, she joined the faculty at MIT in 1973. Her research interests include various areas of experimental nuclear and intermediate-energy physics. She has studied the interactions of photons with few-nucleon systems and complex nuclei, using electron accelerator facilities at Glasgow and MIT. She is currently investigating pion-induced reactions, such as the double charge-exchange process, at the Los Alamos Meson Physics Facility. Both types of experiments are aimed toward a better understanding of the nuclear interaction, in particular the role of high-momentum components, short-range correlations and meson-exchange effects. Dr. Matthews is an APS Fellow and was a member of the APS Panel on Public Affairs from 1981 to 1984. She served on the Los Alamos Meson Physics Facility Program Advisory Committee from 1982 to 1985 and was chair of the Energetic Pion Channel and Spectrometer Subcommittee from 1983 to 1985. In 1983 she was Benedict Distinguished Visiting Professor of Physics at Carleton College, and in 1984 she was chair of the Gordon Research Conference on Photonuclear Reactions. She is currently a member of the Bates Linear Accelerator Center Program Advisory Committee at MIT."

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EQUAL OPPORTUNITY AWARD TO CRANNEILL

The National Aeronautics and Space Administration at Goddard Space Flight Center has bestowed its Equal Opportunity Award upon Dr. Carol Jo Crannell in recognition of her dedication to equal opportunity for women and minorities by providing a role model for many women who have worked under her supervision and serving as a vocal spokesperson on behalf of equal opportunity in government laboratories and in the academic arena.

Dr. Crannell is a leader in space exploration. She and her co-workers investigate powerful blasts of radiation from the sun and more distant objects. Her team builds detectors which they send up on gigantic balloons and on spacecraft. Dr. Crannell is also a past Chair of CSWP, served on the Executive Committee of the Forum on Physics and Society, and has been active on a number of advisory panels for NSF and APS.

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DELOYE NAMED ASME PRESIDENT

Nancy Deloye Fitzroy, manager, energy and environmental programs, Turbine Marketing and Projects Division, General Electric Company, Schenectady, NY, has been elected president of the American Society of Mechanical Engineers. She is the first woman to head a major national engineering society and will assume office in June 1986.
TAYLOR ELECTED TO MRS V.P. SLOT

Kathleen C. Taylor has been elected First Vice-President of the Materials Research Society (MRS). She is in the Physical Chemistry Department at GM Research Laboratories, has served as MRS Treasurer, and she conceived and implemented the Graduate Student Award Program in 1980 and played a major role in establishing MRS Headquarters in Pittsburgh.

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MRS AWARDS

Among fifteen graduate students representing various materials science disciplines who were selected as recipients of the MRS Graduate Student Awards are four women. Those award winning women and their papers are:

Suzana Clement, Dept. of Physics, Universidad Complutense (Spain), "Radiation Induced Impurity Precipitation in MgO."

Aliki Collins, Dept. of Materials Science, MIT, "Magnetic After Effects and Magnetostriiction of Fe-base Glasses."

Carolyn A. MacDonald, Applied Physics, Harvard University, "The Kinetics of Rapid Crystallization in Pure Metals."

Karren L. More, Dept. of Materials Engineering, North Carolina State University, "Laser and Ion Beam Surface Modification of Alpha-SiC."

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WE HEAR THAT...

Dr. Luisa F. Hansen, a past treasurer of CSWP and occasional author and editor of the Gazette gave an invited paper at a meeting organized by the International Nuclear Energy Agency in Paris during November 1985.

Dr. Marjorie O. Olmstead, currently at Xerox Corporation Palo Alto Research Center, will be joining the faculty of the Department of Physics at U.C.—Berkeley in the Fall of 1986.

Dr. Dianne K. Prinz, Head of the Atmospheric Spectroscopy Section of the Ultraviolet Measurements Branch of the Space Science Division of the Naval Research Laboratory (NRL), was a backup Payload Specialist for the Spacelab 2 mission of the Space Shuttle. Dr. Prinz presented a talk, "Scientists on Board the Shuttle" at a Colloquium sponsored by Women in Science and Engineering (WISE) at NRL on 4 December 1985.

Dr. Patricia H. Reiff of Rice University presented the Society of Physics Students Lecture, "The Aurora Borealis: a TV in Space" at the Houston meeting of the American Vacuum Society (AVS) on 21 November 1985.

Dr. Jean Bennett of the Naval Weapons Center at China Lake, CA, is on sabbatical from NWC and is currently a Visiting Senior Research Scientist at the new Center for Applied Optics and holds a joint appointment in the physics department at the University of Alabama at Huntsville. She plans to set up a laboratory for evaluating optical surfaces, pursue her research, and teach a course on surface evaluation techniques. Dr. Bennett is current President of the Optical Society of America.

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"HALLEY’S COMET FOR KIDS"

"Halley’s Comet for Kids" is the title of a spiral-bound illustrated book of information and activities for children with a comet theme. Your editor purchased a copy as a gift for one of her favorite children and found it highly satisfactory. The author of the book is Dr. Marla H. Moore, who is a research associate at the University of Maryland Astronomy program doing most of her work at NASA Goddard Space Flight Center. Dr. Moore is also the mother of a teenage son and a young daughter, who were part of her inspiration for creating the book. Anyone wishing to purchase the book can do so by mail by writing to:

AT Press
Box 5241
Hyattsville, MD 20782

The price of the book is $4.50 plus $1.25 for shipping and handling. Maryland residents should also add 5% sales tax to the check for the order.

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POSITION OPENING

Head, School of Physics and Astronomy
University of Minnesota

The School of Physics and Astronomy at the University of Minnesota is seeking applications for the tenured position of Head of the School. The individual selected is expected to have an international reputation for excellence in research in physics and astrophysics, with at least 10 years experience after the Ph.D. degree. The position involves managing a major research and teaching enterprise. Applications should be sent to S. Gasiorowicz, Search Committee, School of Physics and Astronomy, University of Minnesota, 116 Church Street S.E., Minneapolis, Minnesota 55455, before 31 March 1986. The University of Minnesota is an equal opportunity educator and employer and specifically invites and encourages applications from women and minorities.
APRIL MEETING OF THE AMERICAN PHYSICAL SOCIETY
ROOMMATE REFERRAL FORM

Please print or type

Name: ____________________________________________

Affiliation: ______________________________________

Address: _________________________________________

City: ____________________________ State: __________ Zip: __________

Date of Arrival: ______________________ Date of Departure: ______________________

Please check where appropriate

___ Smoker

___ Non-Smoker

___ Male

___ Female

___ Would Room with a Smoker

Please specify any special requests: ____________________________________________

This form must be received no later than 12 March 1986 by:
   Mrs. Edith Rees
   American Physical Society
   335 East 45th Street
   New York, NY 10017.