

# Gazette

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

## HOWS AND WHYS OF APS FELLOWSHIP NOMINATION

The CSWP has been concerned that women are under-represented among APS Fellows, and wishes to encourage women to nominate and be nominated. Although the recent membership survey revealed that 6.5% of APS members are women, the percentage of women elected to fellowship each year is rarely over 3%, and has been as low as 1%. Fellowship shows that peers recognize an individual's contributions and achievement, and can be a factor in hiring and promotion decisions.

A fellowship nomination is a political process that requires thought and effort by the nominator. A potential nominee should not be shy about requesting a colleague to act as a nominator and

providing help in assembling the necessary documentation. The following guidelines (extracted and amplified from the Newsletter of the Division of Condensed Matter Physics) should help in the process.

About three eighths of 1% of the total APS membership is elected to fellowship each year, although the Bylaws permit as much as one half of 1%. With APS membership at 42,000, this means that only 150 or so new Fellows are honored each year. In general, an APS Fellow is selected on the basis of sustained contribution to his or her field over a period of time, rather than a single, albeit brilliant, piece of work. This is important to consider when nominating younger people for fellowship.

Because the process is competitive, sponsors should be sure that the material accompanying the nomination clearly and completely reflects the candidate's achievements. A comprehensive list of the nominee's publications is highly recommended, as is information on invited talks, awards, committee service, and organization of conferences. Reprints of papers are less useful since it is impractical to make copies for all fellowship committee members, who are already burdened with nomination materials. On the other hand, detailed statements and supporting letters from sponsors and others familiar with the candidate's most "exceptional contributions" can aid the committee considerably. The nomination form has space for a two-line endorsement, but this is too brief to stand by itself unless the candidate is already well known to the committee.

The editor for this issue is Ellen D. Williams; assistant editor is Amy Halsted.

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Nomination forms and deadlines for their submission are available from Maximilla Cassell at APS Headquarters. Completed nominations should be sent to APS Executive Secretary N. Richard Werthamer at the same location. From there, nominations are logged and forwarded to the appropriate division, topical group, or forum fellowship committee. The recommendations of these committees are examined by the APS Fellowship Committee, which also examines appealed, interdisciplinary and nontechnical nominations, and in turn sends its recommendations to Council for confirmation.

Deadlines vary for submission of fellowship nominations, depending on when

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The "CSWP GAZETTE," a quarterly newsletter of the American Physical Society Committee on the Status of Women in Physics (CSWP), is mailed free of charge to all women listed on the computerized "Roster of Women in Physics," all US physics department chairs, and others on request. Because editorial responsibility rotates among CSWP members, please address all correspondence to: "CSWP Gazette," The American Physical Society, 335 East 45 St., New York, NY 10017.

# CSWP AND MINORITIES COMMITTEE GRANTED BYLAW STATUS

Following a review and recommendation by the APS Committee on Committees (COC), the CSWP and the Committee on Minorities (COM) were granted "bylaw status" in the revised and recently adopted APS Bylaws. Joining the ranks of such groups as the Committee on Education and the Panel on Public Affairs, CSWP is now officially noted and charged in the Society's Bylaws.

Established in 1972, the CSWP existed up until last fall as a "Council Committee," under a provision that allows Council to establish committees as it sees fit to aid in the management of the activities of the Society. Long recognized as an important and permanent APS committee, it was a natural move for the CSWP to change its status when the COC recommendation coincided with a major revision of the APS Bylaws.

According to the COC report, CSWP and COM "are unusual Society committees in that they have sizable individual constituencies. . . . these committees have long histories, significant name recognition, highly visible and stylized newsletters, and multiple activities that involve substantial community participation." However, the report states, APS "has failed to formulate long-term goals in the area of outreach to under-represented populations" including women and minorities. Noting that it was impressed with the "breadth and depth" of the activities of COM and CSWP, the COC recommended

that the two committees be adopted as Bylaw committees.

The COC also made recommendations to Council for continued interaction with COM and CSWP, including the development of five- and ten-year goals for outreach to minorities and women; regular publicizing of the committees' activities; the appointment of a single person to act as Council liaison for both committees; more nominations of and by women and minorities to positions of influence in the Society; and periodic review of APS' efforts and progress towards increasing the participation of these groups in physics.

The new status does not change the CSWP in any meaningful way. However, appearing on the formal slate of Bylaws committees raises the profile of the CSWP, and confirms its permanence and importance to the Society.

The CSWP item in the new Bylaws reads as follows: "Committee on the Status of Women in Physics. —The membership of the Committee on the Status of Women in Physics shall consist of nine members appointed by the President to staggered three-year terms. The President shall appoint the Chair from among the members. This Committee shall address the production, retention, and career development of women physicists and shall gather and maintain data on women in physics in support of these objectives. It may recommend and supervise studies and programs relevant to this charge. It shall report annually to Council."

the appropriate fellowship and executive committees meet. January 15 is the earliest deadline (for DCMP and DAP), but some divisions accept nominations as late as May 1 (DAMOP) for consideration the same year. A nomination that misses its deadline will be considered the following year. Unsuccessful nominations may be resubmitted with or without additional supporting material, prior to the deadline for the following year.

## CONFERENCE TO BE HELD ON CHANGING THE "CHILLY CLIMATE" IN SCIENCE

Three National Science Foundation Science and Technology Centers (the Center for Particle Astrophysics, UC Berkeley; the Center for Quantized Electronic Structures, UC Santa Barbara; and the Center for Molecular Biotechnology, Caltech) are joining forces to organize a national conference to look at what can be done to effect change in the cultural climate in science at research and educational institutions.

After exploring the cultural environment at their own Centers, reading existing documentation, and drawing from the successful Recruitment and Retention of Women in Physics conference held in Washington last year, the three STCs agreed to co-host a conference to examine the issues and to develop viable answers. The sponsors are members of a network of 25 multidisciplinary Science and Technology Centers, funded by the National Science Foundation. They plan to invite university administrators, science faculty and department chairs, members of industry, graduate and undergraduate students, and postdoctoral researchers to come together to look at what can be done to effect change, starting with individual awareness and moving to the organizational level. The results of the conference will be presented to the network of Centers and will be available to industry and research institutions.

The conference will be held in June 1992 at the Center for Particle Astrophysics, located at the University of California at Berkeley. For information on attending, contact Rose Sergeant, Educational Coordinator, 301 Le Conte Hall, UC-Berkeley, Berkeley, CA 94720. Financial support will be available to students wishing to attend.

## NSF SPECIAL OPPORTUNITIES FOR WOMEN

The NSF offers a spectrum of programs designed to increase the numbers and visibility of women in science. Booklets for the programs below can be obtained by writing to Forms and Publications, NSF, Washington, DC 20550, or by calling (202) 357-7861. In addition, the profiles below list phone numbers and departments that can be contacted for information on specific programs.

***Career Access Opportunities in Science and Technology for Women, Minorities and the Disabled (ACCESS)*** includes model projects for women, minorities, and the disabled, designed to attract and keep young people from these populations in science careers. Funded activities are innovative, highly focused, and have good potential for replication; they may also be designed to study the issues of underrepresentation of these groups. Contact ACCESS, Division of Human Resource Development, NSF, (202) 357-7350 (NSF 90-126).

***Visiting Professorships for Women (VPW)*** enables experienced women scientists and engineers to undertake advanced research at a host institution. This program has been covered in past issues of the *Gazette*. In addition to research responsibilities, the visiting professor undertakes lecturing, counseling and other activities to increase the visibility of women scientists in the academic environment of the host institution and to provide encouragement for other women to pursue careers in science and engineering. Contact the VPW Program, Human Resource Development, NSF, (202) 357-7051 (NSF 90-42).

***Research Planning Grants (RPG)*** help increase the number of women investigators participating in NSF's research programs. The grants assist qualified women scientists and engineers, who have not previously submitted a successful independent proposal for federally-funded research, to develop a competitive research proposal. Contact the appropriate disciplinary program officer at NSF (NSF 90-121).

*Continued on page 4*

Continued from page 3

**Career Advancement Awards (CAA)** support activities which advance research career potential for experienced women scientists and engineers. Investigators may seek support to develop new skills in an area which will expand their research programs, conduct exploratory or pilot work, or develop innovative research methods in collaboration with other investigators. Contact the appropriate disciplinary program officer at NSF (NSF 90-121).

**NSF Faculty Awards for Women Scientists and Engineers** is under revision. New deadlines and other information will appear in a future issue of the *NSF Bulletin*.

**Research Initiation Consideration** can be requested by a woman who has not had prior independent federal research funding and who is submitting a regular research proposal to NSF. In response to a written request by the investigator, the program officer gives recognition to the potential "first time federal funding" status in the final proposal evaluation. Contact the appropriate disciplinary program officer (NSF 90-121).

### DEADLINE APPROACHING FOR BUNTING INSTITUTE SCIENCE FELLOWSHIPS

The Mary Ingraham Bunting Institute of Radcliffe College is a multidisciplinary center for advanced studies which sponsors women scientists, scholars, writers, and artists through year-long residence fellowships. Funded by the Office of Naval Research, the 1992-93 Science Scholars Fellowship program will provide eight fellowships to women who have held a Ph.D. for at least two years in one of the following fields: astronomy, molecular and cellular biology, biochemistry, cognitive and neural sciences, computer science, electrical engineering, aerospace and mechanical engineering, geology, materials science, mathematics, physics, naval architecture and ocean engineering, and oceanography. Science fellows will receive a minimum stipend of \$29,000 plus a research allowance, and, when necessary, may affiliate with any

laboratory in the greater Boston area. Application materials can be obtained from the Fellowship Office of the Mary Ingraham Bunting Institute, 34 Concord Avenue, Cambridge, MA 02138; telephone (617) 495-8212. Applications must be postmarked by October 15, 1991.

### NEW LOCATION FOR ORGANIZATION FOR EQUAL EDUCATION OF THE SEXES

A unique source of handsome posters depicting women of achievement in nontraditional careers, including many scientists, the Organization for Equal Employment of the Sexes (OEEES) has relocated from Brooklyn to Maine. The move was made, according to the flyer that announced it, for more space,

lower costs, and clean air. The posters are especially useful for career or science fairs, women's history month (March), on-campus women's science education centers, or as inspirational gifts. Write to OEEES, P.O. Box 438, Main Street, Blue Hill, ME 04614; telephone (207) 374-2489.

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**AUTOBIOGRAPHY AVAILABLE:  
A PASSION FOR PHYSICS,  
THE STORY  
OF A WOMAN PHYSICIST,  
BY JOAN FREEMAN**

Autobiographies of women physicists are not common literary fare, so *Gazette* readers will be interested to note the appearance of *A Passion for Physics*, by Joan Freeman, formerly of Cavendish Laboratory, Cambridge and the UKAEA Harwell Laboratory. Freeman's book is published by the Adam Hilger publishing house of the Institute of Physics in London, but is available in the U.S. from the American Institute of Physics (AIP). The following profile is taken from the AIP January-June 1991 New Book catalog.

Few research scientists write their autobiographies. Consequently their motivations, aspirations, and the ways in which they operate are poorly understood by the outside world. This book, putting a human face to physics, is a welcome addition to the small number of examples of its kind.

It is doubly opportune since the author is one of a rare breed—a woman physicist. As she graphically describes, it was not easy for girls to acquire a broad scientific education, particularly before World War II in Australia, where she was born and grew up. Girls in general still meet some discouragement in taking up physics as a career, though their prospects are now much better than they were. Dr. Freeman's story provides an encouraging role model for aspiring young women physicists.

The book, avoiding emphasis on technical aspects of physics, is also a source of entertainment for the general reader, with its many, often humorous, anecdotes about the author and about other

scientists she has known. Beginning with an account of her early life, the author describes her struggles to gain a physics education, the vicissitudes of the Depression, her experiences at Sidney University, and her years in the wartime radar establishment in Sydney. The story continues with the tribulations and triumphs of the author's period at the Cavendish Laboratory, Cambridge; her meeting with the physi-

cist John Jelley, whom she ultimately married, her transition to the Atomic Energy Research Establishment, Harwell, and her adventures in the U.S. The book conveys vividly the author's sense of excitement and awe in gaining, through her profession, a fresh insight into the beauty, the intricacies, and the mystery of the physical world, and her admiration of the advances in understanding that have been achieved

through continuing human endeavor.

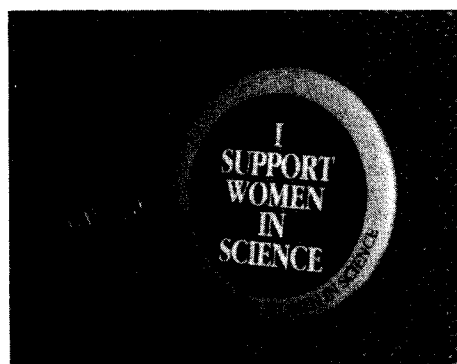
Look for a review of *A Passion for Physics* in a future issue of the *Gazette*. The book (hardcover, 240 pages) is available from AIP for \$35.00, with a 20% discount offered to members of APS, AAPT, and other AIP societies who purchase it for personal use. To order or request a catalog of current titles, call toll free (800) 445-6638.

## BUTTONS AND LAPEL PINS FROM AWIS



(photo courtesy June Schultz)

**The Association for Women in Science (AWIS) is offering handsome buttons and lapel pins, modeled here by APS staff members who do indeed support women in science. Left to right: Ricki Bar-Zeev, Staff Liaison to the CSWP (sporting lapel pin as well as button); Kristin Roessner, Administrative Assistant for CSWP; APS Executive Secretary Dick Werthamer; and Amy Halsted, Assistant Gazette Editor.**

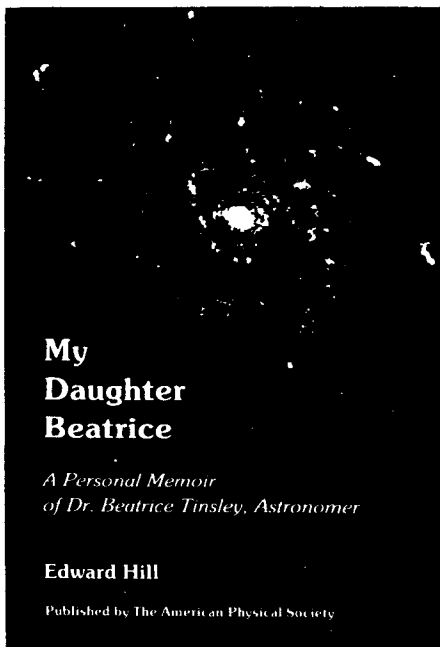


**The lapel pins, which would make a subtle statement on a business suit, are \$5.00 each. If you prefer to wear your heart on your sleeve, the buttons are \$1.00 each, \$15 for 25, \$25 for 50, and \$40 for 100 buttons. Order from The Association for Women in Science, 1522 K Street NW, Suite 820, Washington, DC, 20005; telephone (202) 408-0742.**

New from the American Physical Society

# My Daughter Beatrice

A Personal Memoir of  
Dr. Beatrice Tinsley,  
Astronomer  
by Edward Hill



Reprinted from *Physics Today*, November 1986:

## APS PUBLISHES MEMOIR OF BEATRICE HILL TINSLEY

APS has published a memoir of Beatrice Tinsley (1941-81), who was an astrophysicist and professor of astronomy at Yale University. The book, *My Daughter Beatrice*, is by her father, Edward O. E. Hill. Hill says in the foreword that he decided to write this memoir when Sandra Faber of Lick Observatory informed him of the medal and prize that had been established in Tinsley's honor by the American Astronomical Society. He realized that his daughter would be widely remembered as a scientist and that many people would want to know more about her as a person.

In 1984 Hill circulated photocopies of his typescript to a few of Tinsley's friends in astronomy and astrophysics, who in turn shared it with their friends. Last fall the APS Committee on the Status of Women in Physics recommended that APS publish the book as part of the society's program to encourage young people, particularly women, to choose careers in physics and to help their families and teachers understand the preparation and struggles, risks and rewards, such a choice involves.

APS Deputy Executive Secretary Miriam A. Forman, an

astrophysicist at the State University of New York at Stony Brook, says that Tinsley is remembered as a brilliant astrophysicist and professor of astronomy. "In her tragically brief career she revolutionized the study of the evolution of galaxies. She was famous among astronomers for her prodigious creativity, and also as a gracious friend, dedicated teacher, mentor and colleague," Forman says.

In the book's introduction Faber writes, "Fatally afflicted in mid-career by melanoma, she had by that time already produced a body of research worthy of a full lifetime's effort. Her influence extended far beyond the halls of Yale and was felt, literally, wherever galaxy evolution was an active subject."

In the book, her father gives a parent's view of his daughter's growth from a bright and sensitive child into a world-famous astronomer. Hill quotes extensively from letters Tinsley wrote from the age of seven until just before her death. Her own words to her family give an intimate look into all stages of the development of a scientist, including a very candid view of her struggles between home and career.

The introduction by Faber and obituary by Richard B. Larson (Yale) and Linda L. Stryker (Arizona State University, Tempe) put Tinsley's life and personal contributions into the context of her scientific achievements.

## Order Form

Please send me:

  1   copy of My Daughter Beatrice       \$11.00   
at \$11.00  
       additional copies at \$9.00 each              
TOTAL            

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New York, NY 10017-3483

# **PHYSICS COLLOQUIUM SPEAKERS LIST**

compiled by the

## **COMMITTEE ON THE STATUS OF WOMEN IN PHYSICS**

July 27, 1991

**Sec. I: Speakers by geographic area, with  
address and phone numbers.**

**Sec. II: Talk titles by physics subfield, with  
speakers' names and affiliations.**

### **Travel Grants Available for Women Colloquium Speakers**

**The CSWP has recently announced a grant program to encourage schools to invite female physicists as colloquium speakers. See details at end of CSL listing.**

## I. PHYSICS COLLOQUIUM SPEAKER INFORMATION, 1991/1992

This first section lists speakers, with addresses and phones, by geographic area (alphabetically within each subsection), together with references to the sections where talk titles appear. The symbol '\*\*' identifies those listed in the section for GENERAL AUDIENCES. The symbol '+' denotes individuals who have indicated an interest in working with high school (h+) or middle school (m+) students, where the '+' alone indicates both. The section abbreviations in brackets are used for reference in the second section.

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IBM, K32; 650 Harry Rd.  
San Jose, CA 95120  
(408) 927-2481 CARMINA@ALMVMC  
*CONDENSED MATTER PHYSICS*  
*OPTICS and OPTICAL PHYSICS*
- +\* Dr. Andrea Palounek  
MS 50B-5239; LBL, 1 Cyclotron Rd.  
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*NUCLEAR AND PARTICLE PHYSICS*  
*ACCELERATOR PHYSICS*
- +\* Dr. Elizabeth A. Rauscher  
Tecnic Research Labs; 7685 Hughes Dr  
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(415) 895-9474 or (702) 972-3142 FAX: (702) 972-4846  
*NUCLEAR AND PARTICLE PHYSICS*  
*GEOPHYSICS*  
*BIOLOGICAL AND MEDICAL PHYSICS*  
*ENVIRONMENTAL & ENERGY PHYSICS*
- Dr. Helen L. Reed  
Arizona St. Univ, Mech/Aerospace Eng  
Tempe, AZ 85287  
(602) 965-2823  
*FLUID AND PLASMA PHYSICS*
- h+\* Dr. Anneila Sargent  
CalTech, Downs Lab of Physics, 320-47  
Pasadena, CA 91125  
(818) 356-6622 FAX (818) 568-9352  
*ASTROPHYSICS*
- Dr. Roberta P. Saxon  
SRI International, PN 093  
333 Ravenswood Ave.; Menlo Park, CA 94025  
(415) 859-2663  
*CHEMICAL AND STATISTICAL PHYSICS*
- h+\* Dr. Susan J. Seestrom  
P17/MSH803; Los Alamos National Lab  
Los Alamos, NM 87545  
(505) 667-0156 SUSAN@LAMPF  
*NUCLEAR AND PARTICLE PHYSICS*
- Prof. Jodye Selco  
Univ. of Redlands, Physics Dept  
PO Box 3080; Redlands, CA 92373-0999  
(714) 793-2121  
*CHEMICAL AND STATISTICAL PHYSICS*
- Prof. Mary Beth Stearns  
Arizona State Univ., Physics Dept  
Tempe, AZ 85287  
(602) 965-1606  
*INTERFACE AND DEVICE PHYSICS*  
*CONDENSED MATTER PHYSICS*
- \* Dr. Linda Stuk  
Physics Dept; Univ. of Texas; Austin, TX 78712  
(512) 471-6933  
*MOLECULAR AND POLYMER PHYSICS*
- \* Dr. Judith A. Todd  
USC, Dept Mat. Sci./Mech. Eng  
VHE 718-0241; Los Angeles, CA 90089-0241  
(213) 743-4966  
*CONDENSED MATTER PHYSICS*

+\* Dr. Virginia Trimble  
 (Jan-June) UC-Irvine, Physics; Irvine, CA 92717  
 (July-Dec) Univ. of Maryland, Physics  
 College Park, MD 20742  
 (714) 856-6948 or (301) 405-5822  
 VTRIMBLE@UCL.EDU OR VTRIMBLE@ASTRO.UMD.EDU  
 ASTROPHYSICS

m+\* Dr. Barbara A. Wilson  
 Jet Propulsion Lab, MS 302-231  
 4800 Oak Grove Dr.; Pasadena CA 91109  
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 CONDENSED MATTER PHYSICS  
 INTERFACE AND DEVICE PHYSICS

## FOREIGN [FO]

\* Prof. Mary Anne White  
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 Halifax, Nova Scotia, Canada B3H 4J3  
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 CONDENSED MATTER PHYSICS

+\* Dr. Dorothy S. Woolum  
 Dept of Physics; Calif. State Univ. Fullerton  
 Fullerton, CA 92634  
 (714) 773-2769  
 ASTROPHYSICS  
 NUCLEAR AND PARTICLE PHYSICS  
 ACCELERATOR PHYSICS

\* Dr. Cindra Widrig  
 Dept. of Chemistry and Biochemistry  
 Utah State Univ.; Logan, UT 84322-0300  
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 INTERFACE AND DEVICE PHYSICS

## II. COLLOQUIUM TITLES BY FIELD

This second section lists the speakers and titles, grouped by physics subfield and alphabetically by speaker within each group. Refer to the first section for address and phone information on the speakers. The two-character abbreviation after each name refers to a geographic region in the first section.

### ACCELERATOR PHYSICS

- |  |   |  |
|--|---|--|
| Dr. Eva Bozoki, Brookhaven [NE]<br>1. <i>Synchrotron radiation and its use</i>                                 | Dr. Carol Jo Crannell, NASA [EC]<br>1. <i>Imaging high-energy emissions from solar flares</i><br>2. <i>Using balloon-borne platforms for observations of solar flares</i><br>3. <i>The physics of high-energy solar processes in solar flares</i> | Dr. Anneila Sargent, Caltech [SW]<br>1. <i>Searching for forming planetary systems</i><br>2. <i>Merging galaxies</i><br>3. <i>Molecular clouds and star formation</i>  |
| Dr. Ling-Lie Chau, UC Davis [SW]<br>1. <i>Weak decays of charm and beauty particles and CP noninvariance</i>   | Dr. Irene M. Engle, US Naval Acad. [EC]<br>1. <i>Idealized Jovian magnetosphere shape and field</i>   | Dr. Janet Sisterson, Harvard U. [NE]<br>1. <i>Measuring cross sections for long lived radioisotopes produced by proton beams</i>   |
| Dr. Gail G. Hanson, Indiana Univ. [MW]<br>1. <i>Physics and detectors at the superconducting supercollider</i> | Dr. Katherine Freese, MIT [NE]<br>1. <i>Fundamental physics and dark matter</i><br>2. <i>Baryogenesis: An explanation of the matter/antimatter content of the universe</i><br>3. <i>Magnetic monopoles and cosmology</i>                          | Dr. Virginia Trimble, UC-Irvine [SW]<br>1. <i>Supernova: Bigger and better bangs</i><br>2. <i>The universe you don't see: Existence and nature of dark matter</i><br>3. <i>Formation and evolution of close binary systems</i>                                 |
| Dr. Andrea Palounek, LBL [SW]<br>1. <i>Physics and detectors at the SSC</i>                                    | Dr. Shadia R. Habbal, Ctr. for Astrophys. [NE]<br>1. <i>Exploring the dynamic nature of the magnetic field on the sun</i>   | Dr. Belinda J. Wilkes, SAO [NE]<br>1. <i>Quasars in full (multi-wavelength) view</i><br>2. <i>Tour of the Universe</i>   |
| Dr. Betty P. Preece, [SE]<br>1. <i>Elementary particles: Lecture demos for teachers K-12</i>                   | Dr. Martha P. Haynes, Cornell Univ. [NE]<br>1. <i>Extragalactic sociology: Environmental effects on galaxy evolution</i><br>2. <i>Large-scale structure in the universe</i>   | Dr. Dorothy S. Woolum, Cal. State-Fullerton [SW]<br>1. <i>Meteorites and what they tell us about the solar system</i><br>2. <i>Nucleosynthesis of the heavy elements</i><br>3. <i>Interpreting solar system elemental abundances of the N=50 neutron shell</i> |
| Dr. Cynthia A. Volkert, AT&T [NE]<br>1. <i>Damage produced in silicon by high energy ion beams</i>             | Dr. Jacqueline N. Hewitt, MIT [NE]<br>1. <i>Gravitational lenses</i>  |  |
| Dr. Dorothy S. Woolum, Cal. State-Fullerton [SW]<br>1. <i>Trace element microdistribution analysis by PIXE</i> |   |  |

### ASTROPHYSICS

- |   |   |  |
|---|---|--|
| Dr. Elise Albert, U. S. Naval Academy [EC]<br>1. <i>Interstellar gas in the galactic hole</i>   | Dr. Juliette W. Ioup, Univ. of New Orleans [SE]<br>1. <i>Digital filtering for tethered satellite dynamics measurements</i>   | Dr. Beverly S. Cohen, NYU Med. Ctr [NE]<br>1. <i>Deposition of ultrafine particles on the human tracheobronchial tree: A determinant of the dose from radon daughters</i><br>2. <i>Sampling airborne particles for estimation of inhalation exposure</i> |
| Dr. Fran Bagenal, U. of Colo. [MW]<br>1. <i>The peculiar role of Io in the magnetosphere of Jupiter</i><br>2. <i>Voyager explores the magnetospheres of the giant planets</i> | Dr. Christine Jones, Harvard [NE]<br>1. <i>Hot Gas in early type galaxies</i><br>2. <i>Einstein x-ray images of the structure of clusters of galaxies</i>   | Margaret C. Foster, SUNY [NE]<br>1. <i>X-ray microanalysis as a tool for physiology</i>  |
| Dr. Sallie Baliunas, Ctr. for Astrophysics [NE]<br>1. <i>Solar and stellar magnetism</i>  | Dr. Kate Kirby, SAO [EC]<br>1. <i>Atomic and molecular processes in astrophysics</i>  | Dr. Suzanne Gronemeyer, St. Jude Hosp. [SE]<br>1. <i>Clinical magnetic resonance imaging</i>   |
| Reta Beebe, NM State [SW]<br>1. <i>Winds and clouds of the giant planets</i><br>2. <i>The Voyager exploration of the giant planets</i>  | Dr. Gillian R. Knapp, Princeton [NE]<br>1. <i>Gas, dust, and star formation</i><br>2. <i>The life and death of stars</i>  | Dr. Joyce J. Kaufman, Johns Hopkins Univ. [EC]<br>1. <i>Ab-initio quantum chemical calculations on drugs and biomolecules</i>  |
| Dr. Bonnie J. Buratti, Caltech/JPL [SW]<br>1. <i>Comets: Rosetta stones of the solar system?</i><br>2. <i>Icy moons of the solar system</i>                                   | Dr. Deborah A. Konkowski, USNA [EC]<br>1. <i>Cosmic strings</i>   | Dr. Sonja Krause, RPI [NE]<br>1. <i>Transient electric birefringence studies of muscle proteins</i>  |
| Dr. Bel Campbell, Univ. of NM [SW]<br>1. <i>Disks and jets in star formation</i>  | Dr. Lucy-Ann McFadden, Cal Space [SW]<br>1. <i>What the asteroids tell us about solar system formation</i><br>2. <i>Small solar system objects: Interrelationships among asteroids, meteorites, and comets</i><br>3. <i>Planet-crossing asteroids: Their nature and origins</i> | Dr. Susan Lea, SFSU [SW]<br>1. <i>Accretion onto magnetized neutron stars: numerical models</i>  |
| Dr. Judith Cohen, Caltech [SW]<br>1. <i>The Keck telescope project</i><br>2. <i>Trends in globular cluster research</i>   | Dr. Karie Meyers, Occidental College [SW]<br>1. <i>Variability in Seyfert Galaxies</i>  | Dr. Arlene J. Lennox, Fermilab [MW]<br>1. <i>Neutrons against cancer: The clinical experience at Fermilab</i>  |
| Dr. Lynn R. Cominsky, Sonoma State Univ. [NW]<br>1. <i>X-ray binaries: An overview</i>  | Dr. Nancy D. Morrison, U. of Toledo [MW]<br>1. <i>The fundamental properties of massive stars</i>   | Dr. Carmay Lim, Harvard [NE]<br>1. <i>Enzyme catalysis: Mechanism of ribonuclease A</i>  |
|   | Dr. Theresa Nagy, NASA [EC]<br>1. <i>Binary star light curve modeling</i>   |  |

### BIOLOGICAL AND MEDICAL PHYSICS

- Prof. Eugenie V. Mielczarek, George Mason U [EC]  
1. *Iron transport and storage compounds in living systems: Mossbauer spectroscopy*
- Dr. Marilyn E. Noz, NYU [NE]  
1. *Local area networks in an imaging environment*
- Dr. Elizabeth A. Rauscher, Tecnic Research [SW]  
1. *Magnetic flux control of pain*
- Prof. Geraldine L. Richmond, Univ. of OR [NW]  
1. *The spectroscopy of metal ions bound to proteins and polymers*
- Dr. Beverly A. Rubik, Temple Univ. [EC]  
1. *Frontier issues in physics and biophysics*
- Dr. Petra Schmalbrock, Ohio State [MW]  
1. *Magnetic resonance imaging and spectroscopy*  
2. *Investigations of flow with magnetic resonance*  
3. *Pulse sequence development for magnetic resonance imaging*
- Dr. Janet Sisterson, Harvard U. [NE]  
1. *Medical applications of proton beams*  
2. *Proton radiation therapy at the Harvard Cyclotron Laboratory*
- Dr. Sara A. Solla, Bell Labs [NE]  
1. *Statistical mechanics of neural networks*
- Dr. Claudia Tesche, IBM [NE]  
1. *MEG: A technique for imaging brain function with superconducting devices*
- Dr. Audrey V. Wegst, [MW]  
1. *Medical physics in diagnostic radiology*  
2. *Quality control in nuclear medicine and diagnostic radiology*  
3. *Placental transfer of radionuclides and fetal radiation dose*
- CHEMICAL AND STATISTICAL PHYSICS**
- Dr. Juana V. Activos, San Jose State [SW]  
1. *Solid state physical chemistry of high  $T_c$  superconductors*  
2. *Dynamics of triplet states in organic conductors*
- Dr. Estela Blaisten-Barojas, Johns Hopkins [EC]  
1. *Molecular dynamics simulation of clusters and polymers*
- Dr. Nancy J. Brown, Lawrence Berkeley Lab. [SW]  
1. *Theoretical and experimental chemical kinetics*  
2. *Energy transfer*
- Dr. Sally Chapman, Barnard [NE]  
1. *Classical and semiclassical studies of molecular reaction dynamics*
- Dr. Joan M. Frye, Howard Univ. [EC]  
1. *Photodissociation dynamics studied using tunable diode laser spectroscopy*
- Dr. Sandra C. Greer, Univ. of MD [EC]  
1. *Chemical reactions and critical points*  
2. *Equilibrium polymerization as a phase transition*
- Prof. Judith Herzfeld, Brandeis Univ. [NE]  
1. *Self-assembly in crowded solutions: Nonideality and long-range order*  
2. *Solid-state NMR studies of light-driven proton pump*
- Dr. Juliette W. Ioup, Univ. of New Orleans [SE]  
1. *The always-convergent iterative technique of deconvolution*
- Dr. Joyce J. Kaufman, Johns Hopkins Univ. [EC]  
1. *Ab-initio quantum chemical calculations on large molecules and molecular systems*  
2. *Ab-initio quantum chemical calculations on drugs and biomolecules*
- Dr. Kate Kirby, SAO [EC]  
1. *Energy storage in metastable molecular systems*
- Dr. Branka M. Ladanyi, Colorado St. [MW]  
1. *Solvation and chemical reaction dynamics in polar media*  
2. *Computer simulation of fluid properties of spectroscopic interest*
- Dr. Marsha I. Lester, Univ. of PA [EC]  
1. *Photodissociation and photoionization of van der Waals complexes*
- Dr. Camay Lim, Harvard [NE]  
1. *Nonequilibrium effects in chemical kinetics*  
2. *Dynamics of gas-surface interactions*
- Dr. Susan R. McKay, Univ. of ME [NE]  
1. *The random field problem: Phase diagrams and thermodynamics*  
2. *Spin glasses and chaos*  
3. *Renormalization group methods and exactly-solvable models of phase transitions*
- Dr. Cherry A. Murray, AT&T Bell Labs [NE]  
1. *Colloidal crystals*  
2. *Two-stage melting in two dimensional colloidal crystals*
- Dr. Kathie Newman, Notre Dame [MW]  
1. *Ordering transitions in semiconductors*
- Dr. Mary Jo Ondrechen, Northeastern Univ. [NE]  
1. *Predicting the spectroscopic properties of discrete mixed-valence systems*  
2. *The role of polarizable bridging ligands in discrete-molecular, conducting, and superconducting systems*
- Dr. Mary Beth Ruskai, U. Lowell/U. Mich. [MW]  
1. *Relative entropy in quantum statistical mechanics: inequalities, extremal properties, and estimation*  
2. *Mathematical analysis of the stability and breakup of diatomic molecules*
- Dr. Marie-Louise Saboungi, Argonne [MW]  
1. *Order in disordered materials*  
2. *Metal-nonmetal transition in alloys*
- Dr. Roberta P. Saxon, [SW]  
1. *Theoretical studies of multiphoton processes*  
2. *Theoretical study of Rydberg molecules*
- Prof. Jodye Selco, Univ. of Redlands [SW]  
1. *Spectroscopy and kinetics of transient species*
- Dr. Sara A. Solla, Bell Labs [NE]  
1. *A statistical mechanics approach to optimization problems*  
2. *Statistical mechanics of neural networks*
- CONDENSED MATTER PHYSICS**
- Dr. Juana V. Activos, San Jose State [SW]  
1. *Solid state physical chemistry of high  $T_c$  superconductors*  
2. *Dynamics of triplet states in organic conductors*
- Dr. Sheila Bailey, NASA [MW]  
1. *Advances in photovoltaics*  
2. *Space photovoltaics*
- Dr. Estela Blaisten-Barojas, Johns Hopkins [EC]  
1. *Molecular dynamics simulation of clusters and polymers*
- Prof. Jill C. Bonner, Univ. of RI [NE]  
1. *Spin-Peierls transitions*  
2. *Quantum effects in spin dynamics*
- Dr. Alison Chaiken, NRL [EC]  
1. *Integrated magnetics*  
2. *Superconducting intercalation compounds*
- Dr. Meera Chandrasekhar, Univ. of MO [MW]  
1. *Semiconductors and quantum wells under hydrostatic pressure*
- Dr. Shirley Chiang, IBM [SW]  
1. *Scanning tunnelling microscopy of metals on semiconductors*  
2. *Atomic force microscopy*  
3. *Imaging molecules on surfaces by scanning tunneling microscopy*
- Dr. Deborah D. L. Chung, SUNY [NE]  
1. *Intercalation and exfoliation of graphite*  
2. *Ohmic contacts to III-V compound semiconductors*  
3. *Superconducting composite materials*  
4. *Carbon fiber composites*
- Dr. Esther Conwell, Xerox [NE]  
1. *Differences between one- and three-dimensional semiconductors*  
2. *Metal-insulator transition in doped trans-polyacetylene*  
3. *Solitons, polarons, and photoconductivity in polyacetylene*  
4. *Conducting polymers*
- Dr. Denice Denton, Univ. of Wisconsin [MW]  
1. *Effects of moisture on the dielectric properties of polyimide films*
- Dr. Stephanie B. DiCenzo, AT&T [NE]  
1. *Photoelectron spectroscopy of supported metal clusters: The molecular-metallic transition*
- Dr. Vicky Diadiuk, MIT Lincoln Lab [NE]  
1. *Fabrication and characterization of semiconductor microarrays*
- Dr. Renee D. Diehl, Penn State [NE]  
1. *LEED studies of alkali metals adsorbed on transition metals*
- Dr. Flonnie Dowell, Los Alamos [SW]  
1. *Molecular modeling of complex materials*  
2. *New phase and molecule predictions for partially-ordered chains*
- Dr. Mildred Dresselhaus, MIT [NE]  
1. *Intercalation and superlattices*  
2. *Liquid carbon*
- Dr. Georgia Fisanick, AT&T [NE]  
1. *Periodic Structures in laser-materials interactions*
- Dr. Judy R. Franz, West Virginia Univ. [EC]  
1. *Do Coulomb gaps exist?*  
2. *Metal-nonmetal transitions in expanded liquid mercury*
- Dr. J. Tinka Gammel, NOSC [SW]  
1. *The search for metallic sandwich wrap: Conductivity in low dimensional systems*
- Dr. Laura H. Greene, Bellcore [NE]  
1. *High  $T_c$  oxide superconductors*  
2. *Metallic superlattices*  
3. *Proximity effects in novel superconductors: Heavy fermions and high  $T_c$*
- Dr. Elisabeth Gwinn, UCSB [SW]  
1. *Nonlinear dynamics in semiconductors*  
2. *The quantum hall effect in parabolic wells*
- Prof. Judith Herzfeld, Brandeis Univ. [NE]  
1. *Self-assembly in crowded solutions: Nonideality and long-range order*  
2. *Solid-state NMR studies of light-driven proton pump*
- Gina I. Hoatson, W&M [EC]  
1.  *$^2\text{H-NMR}$  studies of liquid crystals and solids*  
2. *Orientalional order in binary mixtures of liquid crystals*
- Dr. Frances A. Houle, IBM [SW]  
1. *Interdependence of excitation and reaction in laser-solid interactions*  
2. *Charge carriers and semiconductor etching*  
3. *Photochemical deposition of thin films: Gas phase and surface chemistry*

- Dr. Juliette W. Ioup, Univ. of New Orleans [SE]  
1. Orthogonality of measured normal modes in underwater acoustics
- Dr. Deborah Jackson, Hughes Research [SW]  
1. Teaching old atoms new tricks  
2. Interference effects between different optical harmonics
- Dr. Shirley A. Jackson, AT&T [NE]  
1. Magnetic polarons in diluted magnetic semiconductor superlattices  
2. Zone-folding and quasi-direct optical transitions in semiconductor superlattices  
3. Excitonic magnetic polaron effects in stressed diluted magnetic semiconductors
- Dr. Barbara A. Jones, IBM [SW]  
1. The two-impurity Kondo model: Numerical renormalization group study
- Dr. Kathleen Kash, Bellcore [NE]  
1. Optical properties of quantum wires and dots
- Dr. Joyce J. Kaufman, Johns Hopkins Univ. [EC]  
1. Ab-initio quantum chemical calculations on large molecules and molecular systems
- Prof. Karen L. Kavanagh, UC, San Diego [SW]  
1. Atomic diffusion in GaAs  
2. High resolution X-ray scattering from semiconductors
- Dr. Jacqueline Krim, Northeastern Univ. [NE]  
1. Nanotribology of adsorbed films  
2. Floppy disks and fractal dimensions
- Dr. Kei May Lau, UMass/Amherst [NE]  
1. Quantum-size and strain effects in semiconductor heterostructures  
2. Organometallic chemical vapor deposition technology
- Dr. Gabrielle G. Long, NIST [EC]  
1. Small angle neutron and x-ray scattering by ceramics
- Dr. Weili Luo, Univ. of Chicago [MW]  
1. Dynamics of spin glasses  
2. Magnetic properties of a quenches ferrofluid system
- Dr. Rosemary A. MacDonald, NIST [EC]  
1. Modelling porous media: Application to macromolecular separation
- Dr. Susan R. McKay, Univ. of ME [NE]  
1. The random field problem: Phase diagrams and thermodynamics  
2. Spin glasses and chaos  
3. Renormalization group methods and exactly-solvable models of phase transitions  
4. Phase diagrams and models of chalcogens adsorbed on nickel surfaces
- Dr. Laurie E. McNeil, Univ. of NC [EC]  
1. Delight in disorder: Structural studies of chalcogenide glasses  
2. Layered materials the old-fashioned way
- Dr. Patricia M. Mooney, IBM [NE]  
1. Deep level defects in III-V semiconductors  
2. DX centers in III-V semiconductor alloys  
3. Influence of DX centers on heterojunction device characteristics
- Dr. Cherry A. Murray, AT&T Bell Labs [NE]  
1. Surface enhanced Raman scattering  
2. Colloidal crystals  
3. Two-stage melting in two-dimensional colloidal crystals  
4. Ordering in Abrikosov flux lattices of high Tc superconductors
- Dr. Barbara Neuhauser, SFSU [SW]  
1. The design and fabrication of an ultralow temperature bolometer for detection of solar neutrinos and dark matter
- Prof. Gertrude F. Neumark, Columbia Univ. [NE]  
1. Luminescence characterization of materials: ZnSe  
2. Properties and role of alkalai metal impurities in ZnSe
- Dr. Kathie Newman, Notre Dame [MW]  
1. Ordering transitions in semiconductors
- Dr. Marjorie Olmstead, UCB [SW]  
1. Formation of the interface between a polar insulator and a non-polar semiconductor  
2. Initial stages of semiconductor interface formation
- Dr. Mary Jo Ondrechen, Northeastern Univ. [NE]  
1. The role of polarizable bridging ligands in discrete-molecular, conducting, and superconducting systems
- Dr. Carmen Ortiz, IBM [SW]  
1. Physics of magnetic thin films  
2. Physics of laser irradiation of thin films
- Dr. Elga Pakulis, IBM [NE]  
1. Microwaves as a probe of high temperature superconductors
- Prof. Martha Pardavi-Horvath, GWU [EC]  
1. Charge-uncompensated magnetic garnets  
2. Modeling of magnetic recording process
- Dr. Julia M. Phillips, Bell Labs [NE]  
1. Materials issues in high Tc superconducting thin films
- Dr. Talat S. Rahman, Kansas St. Univ. [MW]  
1. Dynamics of ordered overlayers on metals  
2. Surface reconstruction and surface phonon dispersion - a lattice dynamical study  
3. Surface lattice dynamics and electron energy loss spectroscopy  
4. Dynamics of associative desorption of hydrogen from metal surfaces
- Shang-Fen Ren, Univ. Ill, Urbana [MW]  
1. III-V semiconductor surfaces studied by total energy calculation  
2. Anisotropy of optical phonons and interface modes in GaAs-AlAs superlattices  
3. Orientation dependence of phonons in GaAs-AlAs Superlattices
- Prof. Geraldine L. Richmond, Univ. of OR [NW]  
1. Nonlinear optics as a probe of solid/liquid interfaces
- Dr. Marie-Louise Saboungi, Argonne [MW]  
1. Order in disordered materials  
2. Structure of liquids  
3. Metal-nonmetal transition in alloys
- Dr. Pia N. Sanda, IBM [NE]  
1. Polymeric photoconductors
- Dr. Rozalie Schachter, Amer. Cyanamid [NE]  
1. GaAs devices grown by non-arsine MOVPE
- Dr. Lynn F. Schneemeyer, AT&T [NE]  
1. High temperature superconductors
- Dr. Mary Silber, Georgia Tech. [SE]  
1. Pattern formation in nonequilibrium systems
- Prof. Mary Beth Stearns, Ariz. St. Univ. [SW]  
1. Origin of magnetism in 3D metals  
2. Structural and magnetic behavior of multilayered films
- Dr. Katherine Strandburg, Argonne Natl Lab [MW]  
1. Quasicrystals and random tilings  
2. Phase diagram of a quasiperiodic crystal model  
3. Melting in two dimensions
- Dr. Janet Tate, Oregon St. Univ. [NW]  
1. High temperature superconductivity
- Dr. Claudia Tesche, IBM [NE]  
1. Testing quantum mechanics with superconducting circuits  
2. MEG: A technique for imaging brain function with superconducting devices
- Dr. Tineke Thio, NECI [NE]  
1. Hopping conductivity and magnetism in pure La<sub>2</sub>CuO<sub>4+y</sub>
- Dr. Judith A. Todd, USC [SW]  
1. Microstructure-mechanical property relationships in advanced structural materials  
2. A new look at interphase precipitation reactions
- Dr. Cynthia A. Volkert, AT&T [NE]  
1. Damage produced in silicon by high energy ion beams  
2. Density changes in silicon due to the creation and annealing of point defects  
3. Viscous flow of metallic glasses
- Dr. Gwo-Ching Wang, RPI [NE]  
1. Two-dimensional phase transitions studied by low-energy electron diffraction
- Prof. Mary Anne White, Dalhousie Univ. [FO]  
1. Thermal properties of clathrates: Tempest in a teapot?
- Dr. Alice E. White, AT&T Bell Labs [NE]  
1. Mesotaxy: Single-crystal growth of buried silicide layers by ion implantation  
2. Ion-beam-induced damage in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub>: A mobility edge?
- Dr. Barbara A. Wilson, JPL/Caltech [SW]  
1. Optical properties of heteroepitaxial III-V and II-VI materials  
2. Recombination mechanisms in Type II heterostructures  
3. Optical probes of semiconductor interfaces
- Dr. Jane E. Zucker, AT&T [NE]  
1. Spectroscopy of excitons and phonons in quantum wells  
2. Nonlinear optics below the band edge in quantum wells

## ENVIRONMENTAL/ENERGY PHYSICS

Dr. Sallie Baliunas, Ctr. for Astrophysics [NE]  
1. Sun, stars, and climate

Dr. Nancy J. Brown, Lawrence Berkeley Lab. [SW]  
1. Combustion-generated air pollutants

Prof. Janice Button-Shafer, Univ. of MA [NE]  
1. Physicists' views of the strategic defense initiative

Dr. Beverly S. Cohen, NYU Med. Ctr [NE]  
1. Deposition of ultrafine particles on the human tracheobronchial tree: A determinant of the dose from radon daughters  
2. Sampling airborne particles for estimation of inhalation exposure

Dr. Joanne K. Fink, Argonne [MW]  
1. Characterization of fission products released from experiments that simulate hypothetical severe reactor accidents  
2. The final stage of a postulated reactor meltdown: Interaction of a molten core with concrete

Dr. Luisa F. Hansen, Lawrence Livermore [SW]  
1. Neutron and gamma-ray transport through materials of interest to fusion reactors

B. K. Lunde, [MW]  
1. Capital costs of building design

Dr. Elizabeth A. Rauscher, Tecnic Research [SW]  
1. A model of population dynamics

Dr. Martha H. Redi, Princeton [NE]  
1. The 1990's: A critical decade for fusion energy  
2. Recent research in transport: Plasma physics and controlled fusion

## FLUID AND PLASMA PHYSICS

- Dr. Barbara Abraham-Shrauner, Univ. of WA [MW]  
 1. *Symmetries, solitons and nonlinear systems: The secret method*
- Dr. Fran Bagenal, U. of Colo. [MW]  
 1. *The peculiar role of  $I_0$  in the magnetosphere of Jupiter*  
 2. *Voyager explores the magnetospheres of the giant planets*
- Dr. Mary L. Brake, Univ. of MI [MW]  
 1. *Unusual light emission in relativistic electron beam pumped gases*
- Dr. Weili Luo, Univ. of Chicago [MW]  
 1. *Magnetic properties of a quenches ferrofluid system*
- Dr. Martha H. Redi, Princeton [NE]  
 1. *The 1990's: A critical decade for fusion energy*  
 2. *Recent research in transport: Plasma physics and controlled fusion*
- Dr. Helen L. Reed, Arizona St. Univ. [SW]  
 1. *Stability and transition of laminar viscous flows*
- Dr. Mary Silber, Georgia Tech. [SE]  
 1. *Pattern formation in nonequilibrium systems*  
 2. *Symmetry-breaking bifurcations and spatial pattern formation*  
 3. *Pattern selection in convection*

## GEOPHYSICS

- Dr. Fran Bagenal, U. of Colo. [MW]  
 1. *The peculiar role of  $I_0$  in the magnetosphere of Jupiter*  
 2. *Voyager explores the magnetospheres of the giant planets*
- Dr. Nadine G. Barlow, Johnson Space Ctr. [SW]  
 1. *Planetary geophysics*  
 2. *Past and future exploration of Mars*  
 3. *Impact cratering as a geologic process*
- Dr. Prabha Durgapal, Welx [SW]  
 1. *An analytic model for electromagnetic wireline tools for geophysical exploration*
- Dr. Juliette W. Ioup, Univ. of New Orleans [SE]  
 1. *Inversion of seismic data using Fourier coefficients*  
 2. *The modified image method for airborne electromagnetics*
- Dr. Elizabeth A. Rauscher, Tecnic Research [SW]  
 1. *Resonant magnetic field pulsations and the mechanisms of the earth ionosphere excitation modes*
- Dr. Sara A. Solla, Bell Labs [NE]  
 1. *A scaling model for crack propagation and fracture*

## INTERFACE AND DEVICE PHYSICS

- Dr. Susan D. Allen, Univ. of Iowa [MW]  
 1. *Laser deposition and etching*  
 2. *Dust, holes and wires: Laser processing for electronics and optics*
- Dr. Sheila Bailey, NASA [MW]  
 1. *Advances in photovoltaics*
- Dr. Alison Chaiken, NRL [EC]  
 1. *Integrated magnetics*
- Prof. Siu-Wai Chan, Columbia Univ. [NE]  
 1. *Grain boundaries in high temperature superconductors*  
 2. *How crystals dance to each other*
- Dr. Meera Chandrasekhar, Univ. of MO [MW]  
 1. *Semiconductors and quantum wells under hydrostatic pressure*

- Dr. Shirley Chiang, IBM [SW]  
 1. *Scanning tunneling microscopy of metals on semiconductors*  
 2. *Atomic force microscopy*  
 3. *Imaging molecules on surfaces by scanning tunneling microscopy*
- Dr. Deborah D. L. Chung, SUNY [NE]  
 1. *Ohmic contacts to III-V compound semiconductors*
- Dr. Denise Denton, Univ. of Wisconsin [MW]  
 1. *A solid state humidity sensor device*
- Dr. Vicky Diadiuk, MIT Lincoln Lab [NE]  
 1. *Fabrication and characterization of semiconductor microlens arrays*
- Dr. Mildred Dresselhaus, MIT [NE]  
 1. *Intercalation and superlattices*

- Dr. Laura H. Greene, Bellcore [NE]  
 1. *Heavy fermion*  
 2. *Metallic superlattices*  
 3. *Proximity effects in novel superconductors: Heavy fermions and high  $T_c$*
- Dr. Frances A. Houle, IBM [SW]  
 1. *Interdependence of excitation and reaction in laser-solid interactions*  
 2. *Charge carriers and semiconductor etching*  
 3. *Photochemical deposition of thin films: Gas phase and surface chemistry*

- Dr. Deborah Jackson, Hughes Research [SW]  
 1. *Lightwave technology*
- Dr. Shirley A. Jackson, AT&T [NE]  
 1. *Magnetic polarons in diluted magnetic semiconductor superlattices*  
 2. *Zone-folding and quasi-direct optical transitions in semiconductor superlattices*

- Prof. Karen L. Kavanagh, UC, San Diego [SW]  
 1. *What is an interface?*  
 2. *High resolution X-ray scattering from semiconductors*  
 3. *Scanning tunneling microscopy of semiconductor interfaces*

- Dr. Kei May Lau, UMass/Amherst [NE]  
 1. *Quantum-size and strain effects in semiconductor heterostructures*

- Dr. Carmay Lim, Harvard [NE]  
 1. *Dynamics of gas-surface interactions*

- Dr. Patricia M. Mooney, IBM [NE]  
 1. *Influence of DX centers on heterojunction device characteristics*

- Dr. Cherry A. Murray, AT&T Bell Labs [NE]  
 1. *Surface enhanced Raman scattering*

- Dr. Marjorie Olmstead, UCB [SW]  
 1. *Formation of the interface between a polar insulator and a non-polar semiconductor*  
 2. *Initial stages of semiconductor interface formation*

- Dr. Talat S. Rahman, Kansas St. Univ. [MW]  
 1. *Dynamics of ordered overlayers on metals*  
 2. *Surface reconstruction and surface phonon dispersion - a lattice dynamical study*  
 3. *Surface lattice dynamics and electron energy loss spectroscopy*

- Shang-Fen Ren, Univ. Ill, Urbana [MW]  
 1. *III-V semiconductor surfaces studied by total energy calculation*

- Prof. Geraldine L. Richmond, Univ. of OR [NW]  
 1. *Nonlinear optics as a probe of solid/liquid interfaces*

- Dr. Rozalie Schachter, Amer. Cyanamid [NE]  
 1. *GaAs devices grown by non-arsine MOVPE*

- Prof. Mary Beth Stearns, Ariz. St. Univ. [SW]  
 1. *Structural and magnetic behavior of multilayered films*

- Dr. Gwo-Ching Wang, RPI [NE]  
 1. *Two-dimensional phase transitions studied by low-energy electron diffraction*  
 2. *Kinetics of 2D ordering studied by high resolution low energy electron diffraction*  
 3. *Growth of large lattice mismatch metal-semiconductor heteroepitaxy thin films by MBE*

- Dr. Margaret H. Weiler, Raytheon [NE]  
 1. *Semiconductor devices for high frequencies*

- Dr. Margaret H. Weiler, Honeywell [NE]  
 1. *HgCdTe photodiodes for infrared imaging systems*

- Dr. Alice E. White, AT&T Bell Labs [NE]  
 1. *Mesolaxy: Single-crystal growth of buried silicide layers by ion implantation*  
 2. *Mechanisms of formation of buried oxide layers by ion implantation*

- Dr. Cindra Widrig, Utah State [SW]  
 1. *Scanning tunneling microscopy and chemical applications*

- Dr. Barbara A. Wilson, JPL/Caltech [SW]  
 1. *Optical properties of heteroepitaxial III-V and II-VI materials*  
 2. *Recombination mechanisms in Type II heterostructures*  
 3. *Optical probes of semiconductor interfaces*

- Dr. Jane E. Zucker, AT&T [NE]  
 1. *Spectroscopy of excitons and phonons in quantum wells*  
 2. *Nonlinear optics below the band edge in quantum wells*

## MOLECULAR AND POLYMER PHYSICS

- Dr. Esther Conwell, Xerox [NE]  
 1. *Solitons, polarons, and photoconductivity in polyacetylene*  
 2. *Conducting polymers*

- Dr. Flonnie Dowell, Los Alamos [SW]  
 1. *Molecular modeling of complex materials*  
 2. *Molecular theories for polymers*  
 3. *New phase and molecule predictions for partially-ordered chains*

- Dr. Sandra C. Greer, Univ. of MD [EC]  
 1. *Equilibrium polymerization as a phase transition*

- Prof. Judith Herzfeld, Brandeis Univ. [NE]  
 1. *Self-assembly in crowded solutions: Nonideality and long-range order*  
 2. *Solid-state NMR studies of light-driven proton pump*

- Dr. Joyce J. Kaufman, Johns Hopkins Univ. [EC]  
 1. *Ab-initio quantum chemical calculations on large molecules and molecular systems*  
 2. *Ab-initio quantum chemical calculations on drugs and biomolecules*

- Dr. Sonja Krause, RPI [NE]  
 1. *Transient electric birefringence studies of muscle proteins*  
 2. *Polymer morphology changes in electric fields: Immiscible polymers*  
 3. *Membrane pore structure studies using scattering methods*

- Dr. Rosemary A. MacDonald, NIST [EC]  
 1. *Modelling porous media: Application to macromolecular separation*

- Dr. Mary Jo Ondrechen, Northeastern Univ. [NE]  
 1. *Predicting the spectroscopic properties of discrete mixed-valence systems*

- Prof. Geraldine L. Richmond, Univ. of OR [NW]  
 1. *The spectroscopy of metal ions bound to proteins and polymers*

- Dr. Linda Stuk, Univ. of Texas [SW]  
 1. *Diffusion of small molecules in polymers, or: Why are there no plastic beer bottles?*



## NUCLEAR AND PARTICLE PHYSICS

- Prof. Karen Barad, Barnard College [NE]  
1. *Numerical simulations of quantum chromodynamics*
- Prof. Janice Button-Shafer, Univ. of MA [NE]  
1. *Utilization of polarized targets and polarized beams in nuclear and particle physics*  
2. *Is there a fifth force?*
- Prof. Jolie A. Cizewski, Rutgers Univ. [NE]  
1. *Symmetry and supersymmetry in heavy nuclei*  
2. *Onset of deformation in heavy nuclei*
- Dr. Bunny C. Clark, Ohio State Univ. [MW]  
1. *Relativistic effects in nuclear physics*
- Prof. Cynthia A. Gossett, Univ. of WA [NE]  
1. *The giant dipole resonance in hot nuclei*  
2. *Hard photon production in heavy ion collisions*
- Dr. Luisa F. Hansen, Lawrence Livermore [SW]  
1. *Microscopic optical model potentials in the analysis of nucleon-nucleus scattering*  
2. *The transport of 14-MeV neutrons through materials of interest to fusion reactors*
- Dr. Gail G. Hanson, Indiana Univ. [MW]  
1. *Physics of the neutral weak vector boson Z<sup>0</sup>*  
2. *Physics and detectors at the superconducting supercollider*
- Dr. Lorella M. Jones, Univ. of IL [MW]  
1. *Quark and gluon jets - trails of color in a colorless world*
- Dr. Noemie Benezet Koller, Rutgers [NE]  
1. *Studies of nuclear structure via magnetic moment measurements*
- Dr. Deborah A. Konkowski, USNA [EC]  
1. *The nature of singularities in general relativity*
- Dr. Corinne A. Manogue, Oregon St. Univ. [NW]  
1. *The Klein paradox: Rolling relativistic quantum balls uphill*  
2. *Changing topology: The trousers problem*  
3. *The rotating vacuum*
- Prof. June L. Mathews, MIT [NE]  
1. *Probing the nucleus with high-energy photons*  
2. *How many nucleons does it take to scatter a pion?*
- Dr. Marilyn E. Noz, NYU [NE]  
1. *Group theoretical examples in relativistic quantum mechanics*
- Dr. Andrea Palounek, LBL [SW]  
1. *Physics and detectors at the SSC*
- Dr. Betty P. Preece, [SE]  
1. *Elementary particles: Lecture demos for teachers K-12*
- Dr. Sathyavathi Ramavataram, Brookhaven [NE]  
1. *Nuclear shell models*  
2. *Continuum theories of nuclear reactions*  
3. *Polarization phenomena in nuclear reactions*  
4. *Model calculations at intermediate and high energies*
- Dr. Elizabeth A. Rauscher, Tecnic Research [SW]  
1. *Cosmology models, strings, and particle physics*
- Dr. Susan J. Seestrom, Los Alamos [SW]  
1. *The nucleus as an amplifier of violation of parity and time reversal invariance*  
2. *The pion as a probe of isospin effects in nuclei*
- Dr. Junko Shigenitsu, Ohio State [MW]  
1. *Uses of lattices in elementary particle physics*
- Dr. Elizabeth H. Simmons, Harvard [NE]  
1. *Why do we need a superconducting super collider?*
- Dr. Janet Sistierson, Harvard U. [NE]  
1. *Measuring cross sections for long lived radioisotopes produced by proton beams*
- Prof. Johanna Stachel, SUNY Stony Brook [NE]  
1. *Collisions between ultra-relativistic heavy ions*
- Dr. Julia A. Thompson, U. of Pittsburgh [EC]  
1. *Direct photon production at the CERN ISR*  
2. *Anomalous electron production at low transverse momentum*  
3. *Relativistic heavy ions and close-packed quarks*  
4. *CP violation: Collaborative physics research in the USSR*
- Dr. Sallie A. Watkins, Univ. of So. Colorado [MW]  
1. *The beta ray work of Lise Meitner*
- Dr. Dorothy S. Woolum, Cal. State-Fullerton [SW]  
1. *Interpreting solar system elemental abundances of the N=50 neutron shell*  
2. *Trace element microdistribution analysis by PIXE*

## OPTICS and OPTICAL PHYSICS

- Dr. Susan D. Allen, Univ. of Iowa [MW]  
1. *Dust, holes and wires: Laser processing for electronics and optics*
- Dr. Vicky Diadiuk, MIT Lincoln Lab [NE]  
1. *Fabrication and characterization of semiconductor microlens arrays*
- Dr. Sarah L. Gilbert, NIST, Boulder [MW]  
1. *Fiber lasers*
- Dr. Helen Vogeley Gourley, System Sci. Group [SW]  
1. *Heat and light in optical systems*  
2. *Optical properties of surfaces: How to use them in system design*
- Dr. Juliette W. Ioup, Univ. of New Orleans [SE]  
1. *Higher order correlations and spectra*
- Dr. Katharine J. Jones, Naval Avionics Ctr [MW]  
1. *All about lasers*  
2. *Optical computing*  
3. *Solitons*
- Dr. Cherry A. Murray, AT&T Bell Labs [NE]  
1. *Surface enhanced Raman scattering*
- Dr. Carmen Ortiz, IBM [SW]  
1. *Physics of laser irradiation of thin films*
- Liwen Pan, Univ. Maryland/NIST [EC]  
1. *Atoms in intense laser fields*
- Dr. Mary S. Tobin, HDL [EC]  
1. *Optical properties of doping superlattices*  
2. *Introduction to optical phase conjugation*
- Dr. Reeta Vyas, Univ. of Arkansas [SE]  
1. *Resonance fluorescence from a two-level atom driven by squeezed light*  
2. *Fluctuation properties of squeezed light*
- Dr. Margaret H. Weiter, Honeywell [NE]  
1. *HgCdTe photodiodes for infrared imaging systems*

## TALKS FOR GENERAL AUDIENCES

- Dr. Elise Albert, U. S. Naval Academy [EC]  
1. *Tour of the universe*
- Dr. Susan D. Allen, Univ. of Iowa [MW]  
1. *More and more about less and less: The meaning of a PhD*  
2. *The use of selective ignorance in interdisciplinary research*  
3. *Women in science: What's a nice girl like you doing in a business like this?*  
4. *Is there a laser in your future?*
- Dr. Priscilla Auchincloss, U. of Rochester [EC]  
1. *The climate workshop: Changing the classroom experience for women in science and engineering*
- Dr. Fran Bagenal, U. of Colo. [MW]  
1. *Voyager explores the magnetospheres of the giant planets*
- Dr. Sheila Bailey, NASA [MW]  
1. *Solar power in space*
- Dr. Sallie Baliunas, Ctr. for Astrophysics [NE]  
1. *Solar and stellar magnetism*  
2. *Sun, stars, and climate*
- Prof. Karen Barad, Barnard College [NE]  
1. *Quarks and supercomputers*
- Dr. Nadine G. Barlow, Johnson Space Ctr. [SW]  
1. *Past and future exploration of Mars*  
2. *Impact cratering as a geologic process*  
3. *Planetary science: Between the earth and stars*
- Reta Beebe, NM State [SW]  
1. *Winds and clouds of the giant planets*  
2. *The Voyager exploration of the giant planets*
- Dr. Eva Bozoki, Brookhaven [NE]  
1. *Synchrotron radiation and its use*
- Dr. Mary L. Brake, Univ. of MI [MW]  
1. *Plasmas that glow in the dark*
- Prof. Janice Button-Shafer, Univ. of MA [NE]  
1. *The Strategic Defense Initiative - physicists' views*
- Dr. Bel Campbell, Univ. of NM [SW]  
1. *Star formation: The sound and the fury*  
2. *Does astronomy matter?*
- Dr. Yue Cao, U. Hawaii [NW]  
1. *Atomic hydrogen isotopes generated by  $\beta$  decay of  $T_2$  stored in solid molecular hydrogen isotope lattice*
- Dr. Shirley Chiang, IBM [SW]  
1. *The scanning tunnelling microscope: A microscope that sees atoms*
- Dr. Deborah D. L. Chung, SUNY [NE]  
1. *Aerospace materials*  
2. *Superconducting composite materials*  
3. *Metal-matrix composites*  
4. *Carbon fiber composites*
- Dr. Beverly S. Cohen, NYU Med. Ctr [NE]  
1. *The radon problem: An overview*
- Dr. Lynn R. Cominsky, Sonoma State Univ. [NW]  
1. *X-ray visions of the universe*
- Dr. Denice Denton, Univ. of Wisconsin [MW]  
1. *Microfabrication of integrated circuits: An overview*
- Dr. Irene M. Engle, US Naval Acad. [EC]  
1. *Big machine computing using a desktop system*
- Dr. Helen Vogeley Gourley, System Sci. Group [SW]  
1. *How to find a job in industry*  
2. *Future work: The individual scientist and new modes of working*
- Dr. Suzanne Gronemeyer, St. Jude Hosp. [SE]  
1. *Clinical magnetic resonance imaging*
- Dr. Shirley W. Harrison, retired [NE]  
1. *Contributions of women to astronomy and space science*  
2. *The poor crescent moon*
- Dr. Martha P. Haynes, Cornell Univ. [NE]  
1. *Extragalactic sociology: Environmental effects on galaxy formation*  
2. *Large-scale structure in the universe*
- Dr. Caroline L. Herzenberg, Argonne [MW]  
1. *Women scientists and engineers of antiquity and the Middle Ages*  
2. *Advances in science: Discoveries by women*  
3. *Women scientists of the Manhattan Project*
- Dr. Katharine J. Jones, Naval Avionics Ctr [MW]  
1. *On this matter of girls and mathematics*
- Prof. Karen L. Kavanagh, UC, San Diego [SW]  
1. *What is an interface?*

# COLLOQUIUM SPEAKERS LIST ENROLLMENT/MODIFICATION FORM

The PHYSICS COLLOQUIUM SPEAKERS LIST is compiled annually by the American Physical Society Committee on the Status of Women in Physics. Comments or questions, as well as modifications or new entries for the 1990/91 CSL should be addressed to

Luz Martinez-Miranda, Rm. 362  
 Univ. of Pennsylvania, Electrical Engineering Dept.  
 200 South 33d St.  
 Philadelphia, PA 19104-6390

To modify an existing entry, or to make a new one, please fill out a copy of the form below and return it to the address above.  
**PLEASE PRINT CLEARLY OR TYPE!**

Check whether this is a modification of an existing entry (\_\_\_\_) or a new entry (\_\_\_\_). Today's date: \_\_\_\_\_

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Short name of institution (for use in second section of CSL): \_\_\_\_\_

Address: (please use no more than three lines of about 38 char maximum per line)

\_\_\_\_\_  
 \_\_\_\_\_

Please check if you would be available for occasional "Career-Day" presentations to students in

Middle Schools  
 High Schools

zipcode \_\_\_\_\_

CSWP Roster registration number, if known: \_\_\_\_\_

Bitnet address OR FAX number (only one will be listed): \_\_\_\_\_

To cancel a listed talk, give the title as it appears in the list and the section(s) where it is to be cancelled. If you wish to delete all old entries, just enter "ALL", and register the new titles in the next section. Use an additional sheet if necessary:

To register a new title, give the title as you want it to appear (first word and proper nouns capitalized) in the left column below. Then check the section(s) where it is to be inserted. Also check the top box if this is a CORRECTION of an existing title. If more than 4 talks are registered, please use an additional copy of this form, stapling them together. A limit of seven total entries (checks in right hand column) will be imposed.

Title  
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| <input type="checkbox"/> Astrophysics      | <input type="checkbox"/> CORRECTION                  | <input type="checkbox"/> Bio/Medical   | <input type="checkbox"/> Chem/Statistical |
| <input type="checkbox"/> Cond. Matter      | <input type="checkbox"/> Env/Energy                  | <input type="checkbox"/> Fluid/Plasma  |   |
| <input type="checkbox"/> Geophysics        | <input type="checkbox"/> Interface/Device            | <input type="checkbox"/> Molec/Polymer |   |
| <input type="checkbox"/> Nuclear/Particle  | <input type="checkbox"/> Talks for General Audiences |  |   |
| <input type="checkbox"/> Optics/Opt. Phys. | <input type="checkbox"/> Accelerator Physics         |  |   |

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| <input type="checkbox"/> Nuclear/Particle  | <input type="checkbox"/> Talks for General Audiences |  |   |
| <input type="checkbox"/> Optics/Opt. Phys. | <input type="checkbox"/> Accelerator Physics         |  |   |

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| <input type="checkbox"/> Nuclear/Particle  | <input type="checkbox"/> Talks for General Audiences |  |   |
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| <input type="checkbox"/> Cond. Matter      | <input type="checkbox"/> Env/Energy                  | <input type="checkbox"/> Fluid/Plasma  |   |
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| <input type="checkbox"/> Nuclear/Particle  | <input type="checkbox"/> Talks for General Audiences |  |   |
| <input type="checkbox"/> Optics/Opt. Phys. | <input type="checkbox"/> Accelerator Physics         |  |   |

# The American Physical Society

335 East 45 Street, New York, New York 10017 (212) 682-7341

## CSWP ANNOUNCES 1991-1992 "TRAVEL GRANTS FOR WOMEN COLLOQUIUM SPEAKERS" PROGRAM

The APS Committee on the Status of Women in Physics (CSWP) is pleased to announce that the "Travel Grants for Women Colloquium Speakers" Program is entering its second year. The program is designed to stimulate the recognition of women physicists. The response to last year's program was much greater than anticipated. Twice as many requests were received as we could fund. This year, the APS Executive Board has generously doubled the funding for this program.

- Purpose:** The program is intended to expand the opportunity for physics departments to invite women colloquium speakers who may prove role models for women undergraduate and/or graduate students and faculty. The program also reinforces the awareness of the accomplishments of women physicists.
- Grant:** The program will reimburse institutions for up to \$500 for travel expenses for either of two women colloquium speakers invited during the 1991-1992 academic year.
- Qualifications:** All physics and/or science departments are encouraged to apply. Invited women speakers should be physicists or in a closely related field, such as astronomy or geophysics. For your convenience, a copy of the CSWP Colloquium Speakers List for Women in Physics has been included in this packet, but selection need not be limited to this list.
- Guidelines:** Reimbursement is for travel and lodging expenses only. Honoraria or extraneous expenses at the colloquium itself, such as refreshments, are not reimbursable. Travel by car is reimbursable at 25¢ per mile.
- Application Procedure:** Institutions will be reimbursed in the order applications are received. Institutions must submit the attached application form together with any receipts for the travel expenses for either one of the two speakers. Requests for Travel Grants should be submitted **after** both women speakers have actually spoken. For the convenience of institutions who have scheduled speakers for later in the academic year, **four** travel grants will be reserved for those institutions which submit a letter of intention to file, with the dates of the anticipated colloquia and the names of the speakers. Both speakers must have actually presented their talks by April 15, 1992.

For further information, please feel free to contact: The Travel Grant for Women Colloquium Speakers Program, APS, 335 East 45th Street, New York, NY 10017 or 212-682-7341.

# The American Physical Society

335 East 45 Street, New York, New York 10017 (212) 682-7341

## TRAVEL GRANTS FOR WOMEN COLLOQUIUM SPEAKERS

THE TRAVEL GRANTS PROGRAM WILL REIMBURSE UP TO \$500.00 FOR THE TRAVEL EXPENSES OF EITHER OF TWO WOMEN PHYSICS COLLOQUIUM SPEAKERS IN THE 1991-1992 ACADEMIC YEAR

*Please note: applications will be accepted in the order in which they are received and funding is limited.*

.....  
DATE OF COLLOQUIUM \_\_\_\_\_

SPEAKER #1: NAME \_\_\_\_\_  
HOME INSTITUTION \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
TITLE OF TALK \_\_\_\_\_  
INVITED BY \_\_\_\_\_  
INTRODUCED BY \_\_\_\_\_

AUDIENCE  
COMPOSITION: UNDERGRADUATE ( ) GRADUATE ( ) FACULTY ( )

NUMBER OF ATTENDEES \_\_\_\_\_ % FEMALE  
.....

SPEAKER #2: DATE OF COLLOQUIUM \_\_\_\_\_  
NAME \_\_\_\_\_  
HOME INSTITUTION \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
TITLE OF TALK \_\_\_\_\_  
INVITED BY \_\_\_\_\_  
INTRODUCED BY \_\_\_\_\_

AUDIENCE  
COMPOSITION: UNDERGRADUATE ( ) GRADUATE ( ) FACULTY ( )

NUMBER OF ATTENDEES \_\_\_\_\_ % FEMALE  
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(please complete reverse side)

**TOTAL TRAVEL EXPENSES OF ONE SPEAKER: \$ \_\_\_\_\_**  
*Please attach proof of expenses, such as copies of tickets, receipts, hotel bills, etc.*

**INSTITUTION SUBMITTING  
APPLICATION**

\_\_\_\_\_

**CHECK SHOULD BE MADE OUT TO**

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**ADDRESS**

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**APPLICATION PREPARED BY:**

**DEPARTMENT HEAD:**

\_\_\_\_\_  
*(Print Name)*

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*(Signature)*

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*(Title)*

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*(Date)*

Confirmation of receipt of your application will be sent to you within 5 business days of receipt. If you receive no confirmation, please contact Ricki Bar-Zeev, APS, at 212-682-7341.

Please return this form to:

Travel Grants for Women Colloquium Speakers Program  
American Physical Society  
335 East 45th Street  
New York, NY 10017

# INVITATION TO JOIN THE NEW APS FORUM ON EDUCATION

The American Physical Society (APS) Council, at its most recent meeting on 21 April 1991, approved the formation of a *Forum on Education* to meet the expressed interest of APS members in Education.

The goals of the *Forum on Education* have been defined as, but are not limited to:

- Improving channels for all interested physicists, including those not directly involved in teaching, such as those working in industrial and government labs, to become involved with physics education
- Focusing attention on the importance of good and universally available education to the health of the physics research enterprise and the quality and quantity of future researchers
- Promoting two-way communication between the physics research community and the physics education community
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