

April 1997 IEEE WIE NEWSLETTER

If you'd like to subscribe to this monthly newsletter, send a message to [majordomo@ieee.org](mailto:majordomo@ieee.org) and type: subscribe women-newsletter.

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If you would like to organize a WIE reception at an upcoming conference please contact us at: [women@ieee.org](mailto:women@ieee.org), or call Julia Brown at (310) 317-5068 for more information.

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WIE Announcements -

WIE has initiated an "WIE Job Posting File" with job postings that have been forwarded to us, unsolicited. If you would like to subscribe to this monthly posting file, send a message to [majordomo@ieee.org](mailto:majordomo@ieee.org) and type: subscribe women-jobs. This file will be maintained on a monthly basis. If you have any comments on the file, or would like to submit posting information, please submit to WIE at: [women@ieee.org](mailto:women@ieee.org).

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ThinkQuest Contest Request for Information

My name is Kyle Thomas and I am one of three students working on the Women In Science web page for the ThinkQuest contest. We would be interested in the biographical information along with photos (in GIF form) of any female scientists that you are connected with. Along with biographical information, we are asking these females to answer these seven questions to include in our web site. Please pass this information on to anyone that would be interested in helping us on this ambitious project. Also, if you have any photographs of female scientists in action we can scan that you will give permission to use on our web site, it would be greatly appreciated. Our address is:

Kyle Thomas  
Craigmont High School Planetarium  
3333 Covington Pike  
Memphis, TN 38128

Thanks for being willing to help.

1. Give a brief description of your job telling what your career is like,(a day in your life) but also what you do specifically in your position.
2. How did you decide upon your career? When did you know you wanted to do it and how did you prepare for it?
3. What is the best thing about your job? What do you like the least?
4. As a kid, what kinds of things did you do to prepare for this job? What books did you read,or what things did you do that let you know you would like this field?
5. Was there any person (parent, teacher, mentor, professor) you feel influenced you to pursue this field?
6. What is your favorite quote?
7. What advice do you have for young women who might be interested in the field of science?

Thanks Again!!

We hope to hear from you soon.

Kyle Thomas, Nicole Hassold, Jeff Sroka, and our coach Lisa DuFur

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Arizona State University Graduate Scholarships in Industrial Engineering

Please encourage students to apply for these graduate scholarships in Industrial Engineering:

Arizona State University  
Program Director: Dr. Mary Anderson-Rowland  
e-mail: mary.anderson@asu.edu  
phone: 602-965-8251

**PRACTICE-ORIENTED MASTER'S DEGREE PROGRAM for WOMEN, MINORITIES, AND DISABLED at ARIZONA STATE UNIVERSITY**

This program meets the need for an intellectually rigorous master's program in Industrial Engineering (IE) to prepare graduates for the integrated process of making things in practice. Career change or update is never easy. The two largest barriers are financial support and appropriate work experience. This program addresses both up front with a fellowship and industrial internship program. In particular:

To increase the number of women, under represented minorities, and individuals with disabilities in engineering careers, this program:

1. Provides a means for qualified women, minorities, and disabled students (with special consideration to displaced defense workers) to enter the work force as Industrial Engineers,
2. Provides a fellowship and tuition program for the first year of study to make the program a viable option for qualified women, minorities, and disabled,
3. Provides a half-time internship program during the second year of study so that participants will experience practical application of classroom information and gain hands-on experience that will directly lead to career placement,
4. Increases the critical mass of graduate women, minority, and disabled students within the IE Department,
5. Increases the number of women, minorities, and disabled who serve as role models and recruiters in the workplace, and
6. Increases the number of women, minorities, and disabled who will earn a Ph.D. in engineering by first increasing the number of women, minorities, and disabled with a Master's degree in engineering.

Industrial Engineering is the most people-oriented of the major engineering fields, yet less than 8% of IE employees in the U.S. are racial minorities and less than 5% are women.

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**Girls Left Behind in Access to Technology - Preliminary Report**

**GIRLS LEFT BEHIND IN ACCESS TO TECHNOLOGY**

The preliminary report of a study by Simon Fraser University education professor Suzanne deCastell says that the "culture of isolation" surrounding computers is quite difficult for many girls, and she suggests trying to change what technology does rather than trying to change females. (Vancouver Province 19 Mar 97)

Edupage, 23 March 1997. Edupage, a summary of news about information technology, is provided three times a week as a service by Educom, a Washington, D.C.-based consortium of leading colleges and universities seeking to transform education through the use of information technology.

Edupage is written by John Gehl <gehl@educom.edu> & Suzanne Douglas <douglas@educom.edu>. Voice: 404-371-1853, Fax: 404-371-8057.

Technical support is provided by Information Technology Services at the University of North Carolina at Chapel Hill.

**Educom -- Transforming Education Through Information Technology**

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**U.S. PARTICLE ACCELERATOR SCHOOL EDUCATIONAL PROGRAM**

The U.S. Particle Accelerator School provides educational programs in the field of beams and their associated accelerator technologies not otherwise available to the community of science and technology. We also promote the development and publication of advanced technology textbooks.

We conduct graduate and undergraduate level courses at U.S. universities, holding two such programs per year, one in June and one in January. These courses, running two weeks in duration, take place at leading universities across the

United States. Students may register for one of seven courses scheduled in parallel. By successfully completing the course requirements, which include forty-five contact hours as well as daily problems and examinations, students earn three semester hours of university credit.

Typically, our prerequisites are classical mechanics and electromagnetism at the junior or senior undergraduate level. However, specific prerequisites are listed in each course description.

We offer financial support to university students, which includes the registration fee, housing costs and two meals per day. Interested parties should contact us at:

uspas@fnal.gov or <http://fnalpubs.fnal.gov/uspas>

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#### CALL FOR PAPERS

Journal of Women and Minorities in Science and Engineering  
Center for Interdisciplinary Studies  
Virginia Polytechnic Institute and State University  
Carol J. Burger, Ph.D., Editor-in-Chief

Now entering its' 4th year of publication, the Journal of Women and Minorities in Science and Engineering publishes original, peer-reviewed papers that report innovative ideas and programs, scientific studies, and formulation of concepts related to the education, recruitment, and retention of underrepresented groups in science and engineering. Issues related to women and minorities in science and engineering are consolidated to address the entire professional and educational environment.

We are now welcoming submissions for Volume 4.

Subjects for papers submitted can include:

- empirical studies of current qualitative or quantitative research;
- historical investigations of how minority status impacts science and engineering;
- original theoretical or conceptual analyses of science from feminist, racial, and ethnic perspectives
- reviews of literature to help develop new ideas and directions for future research;
- explorations of feminist teaching methods, minority student/white teacher interactions;
- cultural phenomena that affect the classroom climate.

Sample contents of Volumes 1 -3:

- Mandombian Perspective: Constitutive Matrix for African American Scientists by F. Elaine DeLancey
- An Undergraduate Computer Science Curriculum for the Hearing Impaired by A. Louise Perkins
- Women and Minorities in a Social Statistics Course by Linda P. Rouse
- Overcoming the Barriers: Technology Education as a Career Choice for Women by Jim Flowers
- Racial/Ethnic and Gender Differences in Science Achievement of Nine, Thirteen and Seventeen-year Old Students by Barbara Bruschi and Bernice Taylor Anderson;
- Gender Portrayal in Veterinary Medical Advertising: Implications for Occupational Segregation by Mary M. Christopher and Debra L. Drew
- Find Your Wings: A Math/Science Exploration Project for Elementary School Girls by Jill Marshall and Janet Buckingham
- Characteristics and Educational Experiences of High-Achieving Minority Secondary Students in Science and Mathematics by Samuel S. Peng and Susan Hill;
- Baccalaureate Origins of Women Physical Science Doctorates; Relationship to Institutional Gender and Science Discipline by Norean Radke Sharpe and Carol H. Fuller.....
- Women in Science in India: Has Feminism passed Them By? by Lalita Subrahmanyam
- The Baccalaureate Origins of Chicana and Chicano Doctorates in the Physical, Life, and Engineering Sciences: 1980-1990 by Daniel Solorzano;
- Who is Helped by Friendly Inclusion? A Transformation Teaching Model by Sue Rosser and Bonnie Kelly
- Gender and Ethnic Differences in the Experiences, Achievements, and Expectations of Science and Engineering Majors by Jerilee Grandy
- A Community Approach to Learning Calculus: Fostering Success for Underrepresented Ethnic Minorities in an

Emerging Scholars Program by Baine B. Alexander, Anne, C. Burda, Susan B. Millar

To receive guidelines for manuscript preparation or to submit a curriculum vita if you are interested in reviewing papers for the journal contact:

Editorial Assistant  
Journal of Women and Minorities in Science and Engineering  
Center for Interdisciplinary Studies  
Virginia Polytechnic Institute and State University  
Blacksburg, VA 24061-0227  
Phone: 540-231-6296 Fax: 540-231-7013  
E-mail: JRLWMSE@VT.EDU

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APPLY FOR IEEE SENIOR MEMBER GRADE

Senior Member is the highest IEEE membership grade which may be obtained by application.

Why Apply?

- for recognition of accomplishment by peers
- for professional advancement
- for personal satisfaction

Who should apply?

Engineers, scientists, educators, technical executives or these in IEEE designated fields who have

- at least ten years active professional practice, with five or more years of significant performance,
- accomplishments in engineering, publications, management, education or professional contributions.

We highly recommend all qualified IEEE members to apply for Senior Membership. Another reason to apply for Senior Member grade is that Senior Member grade is required before one is eligible for IEEE Fellow nomination.

To obtain Senior Member Application forms, please contact:

IEEE Operations Center  
Admission and Advancement Committee  
445 Hoes Lane, PO Box 1331  
Piscataway, NJ 08855-1331  
Tel: (908)562-5502 / Fax: (908)981-0225  
E-mail: rab.aa@ieee.org

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-----ON THE WIE www PAGE-----

Whats on the Web

The Women in Engineering Committee maintains a World Wide

Web site, accessible through the IEEE home page

"<http://www.ieee.org/>" or directly:

"<http://www.ieee.org/women/women.html>". The committee can be contacted by e-mail at "[women@ieee.org](mailto:women@ieee.org)." The WIE Home page contains an active, user friendly Bulletin Board, which is in need of topics, comments, and discussion. Please visit and make a contribution!

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WIE Traveling Exhibit

The IEEE Committee on Women in Engineering is putting together a traveling exhibit to illustrate women engineers. We are asking for 8x10 photographs of women engineers at work, a short description of the kind of work they do, and a

brief bio. These pictures will be used on the display tree. We would like to have an abundance of examples, as the pictures will be rotated for use in the display.

Please send your pictures and bios to the attention of:

Cathy Downer  
IEEE WIE  
445 Hoes Lane, PO Box 1331  
Piscataway, NJ 08855-1331

-----IEEE WIE COMMITTEE-----  
WHO ARE WE?

Our committee scopes:

- Scope 1: Gather and disseminate information regarding the status of women and initiatives for, by and on behalf of women in engineering and science.
- Scope 2: Enable mentoring and education programs within IEEE and make available information regarding gender related educational issues which may improve the entry into, and the retention of women in engineering programs.
- Scope 3: Increase the participation and membership of women within IEEE.
- Scope 4: Address ways to improve the climate for women in IEEE and the workplace.

The work of the committee has been divided into a number of subcommittees headed by one of the committee members:

- 1997 Chair: Julie Sheridan-Eng, [stcjse@micro.lucent.com](mailto:stcjse@micro.lucent.com)
- Awards: Cha-Mei Tang, [c.tang@ieee.org](mailto:c.tang@ieee.org)
- Communication: Cathy Downer, [c.downer@ieee.org](mailto:c.downer@ieee.org)
- Education: Karen Moore, [A382AA@email.mot.com](mailto:A382AA@email.mot.com)
- Information: Darla Wagner, [d.wagner@ieee.org](mailto:d.wagner@ieee.org)
- Meetings: Jan Brown, [jan.brown@ieee.org](mailto:jan.brown@ieee.org)
- Multi-Media: Diana Bendz, [dbendz@rhqvm07.vnet.ibm.com](mailto:dbendz@rhqvm07.vnet.ibm.com)
- Reception Organization: Julia Brown, [julia.brown@ieee.org](mailto:julia.brown@ieee.org)
- Workplace Issues: Julie Shimer, [j.shimer@ieee.org](mailto:j.shimer@ieee.org)

You are invited to contact any of these committee members or the entire committee ([women@ieee.org](mailto:women@ieee.org)) if you would like additional information, would like to share with us initiatives you know about both within and outside of IEEE, or would like to work with us on any of the initiatives. We would also like to hear from you with ideas and suggestions about what you would like to see the IEEE be doing or share with us your experiences and thoughts.

IEEE Committee on Women in Engineering  
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Piscataway, NJ 08855-1331

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