



## **Susan Staffin Metz**

Susan Staffin Metz is the senior advisor for the Center for Innovation in Engineering and Science Education and founding Executive Director of the Lore-EI Center for Women in Engineering and Science at Stevens Institute of Technology. As a founder and president (1997 – 2002) of WEPAN, Women in Engineering Proactive Network, Susan has worked with over 200 colleges and universities to increase access and engagement of women in engineering and science through research, policy and program development.

Susan's work at Stevens was recognized by the White House as a recipient of the 1998 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM) and she represented WEPAN, a PAESMEM award recipient in 2002. Susan was honored by the Maria Mitchell Association with the Women in Science Award in 2002 and was named an AWIS Fellow in 2007. Other awards include the WEPAN President's Award for Leadership, the Stevens Achievement Award for Excellence in Student Development, and a commendation by the U.S. House of Representatives: Committee on Science, Space and Technology.

Susan has participated on advisory boards for organizations including: National Academy of Engineering, National Science Foundation Engineering Directorate, AAAS' Center for Advancing Engineering and Science Capacity, Project Lead the Way, Boston Museum of Science's National Center for Technological Literacy, Clare Boothe Luce Program, American Association of Engineering Societies, MentorNet, National Engineers Week, AT&T and Lucent Technologies Foundation Leadership Conference, Goodman Research Group's Women's Experiences in College Engineering Project, Society of Manufacturing Engineers National Youth Council, Boston University's Women in Science and Engineering faculty program, Alcoa Foundation Educational Grants Committee, Johns Hopkins University NSF Curriculum Reform Implementation Grant, and Douglass Project for Rutgers Women in Math and Science.

### **FUNDED PROJECTS**

### **SELECTED PUBLICATIONS**

## FUNDED PROJECTS

- National Science Foundation: GSE Extension Services: Engaging Students in Engineering: \$2,499,397 (2009 – 2013).
- Engineering Information Foundation: Improving the Ability of Engineering Students to Communicate Technical Discoveries to Non-Technical Audiences: \$25,000 (2009 – 2011)
- National Science Foundation: Extension Services in Engineering: Improving Climate, Instruction and Community to Recruit and Retain Undergraduate Women: \$156,878 (2007-2009)
- Alfred P. Sloan Foundation: Project to Assess Climate in Engineering: \$354,390 (2006-2011)
- Engineering Information Foundation: Project to Assess Climate in Engineering: \$25,457 (2008- 2009)
- Clare Boothe Luce Scholarship Program Grant: Stevens Institute of Technology Undergraduate Students: \$100,000 (2006), \$100,000 (2004)
- GE Fund: FacultyfortheFuture.org: \$541,388 (2001-2004). \$100,000 (2004-2005)
- U.S. State Department: Project to Enhance Science and Mathematics Education for Afghan Women: \$195,296 (2003)
- National Science Foundation: Presidential Award for Excellence in Science, Mathematics, & Engineering Mentoring: WEPAN, \$10,000 (2002)
- AT&T Foundation: WEPAN Consulting: \$80,000 (2001 – 2003)
- Alcoa Foundation: WEPAN Consulting: \$100,000 (2001-2003)
- National Science Foundation: MentorNet, A National Electronic Industrial Mentoring Network for Women in Engineering and Science Partners Forum: \$119,406 (2000-03)
- FIPSE, U.S. Department of Education: National Demonstration Project of Presidential Award Winning Curricula for Increasing the Participation of Women in Science, Engineering and Business: \$302,640 (1999-02)
- Lucent Technologies Foundation: National Dissemination Project: Developing Hands-on Engineering Based Activities for Students Grades 3-12: \$285,000 (1999-02)
- AT&T Foundation: *WEPAN on the World Wide Web*: \$347,000 (1997-01)
- IBM Corporation: Exploring Interests in Technology and Engineering Summer Programs for Middle School Girls: \$147,000 (1999-00)
- Engineering Information Foundation: Teacher Institute: Educators Exploring Careers in Engineering: \$18,600 (1999-00)
- National Science Foundation: Presidential Award for Excellence in Science, Mathematics, & Engineering Mentoring: \$10,000, Lore-El Center for Women in Engineering and Science, Stevens Institute of Technology (1998)
- Engineering Information Foundation: *WEPAN Pilot Climate Study*: \$74,993 (1997-99)
- National Science Foundation: *An Invitational Conference for Female Faculty & Graduate Students in Engineering*: \$99,757 (1996-98)
- Tambrands Inc.: *Stevens Pre-College Women in Engineering and Science Programs*: \$150,000 (1996-1999).
- FIPSE, U.S. Department of Education: *Increasing Access for Women in Engineering: A Hands-on Curriculum*: \$199,489 (1994-97)
- University of Washington: *Community College Initiatives to Increase Access for Women to SEM*: \$31,000 (1995-1996)
- US Department of Energy: *WEPAN National Conference*: \$80,000 (1994-97)

- Alfred P. Sloan Foundation: *WEPAN Regional Training Seminars*: \$371,400 (1994-97)
- AT&T Foundation, Weyerhaeuser Co., Bell Atlantic: *Women in Engineering Video and Television Program*: \$60,000 (1993)
- National Science Foundation: *Resource Book: What Do Engineers Do?* \$15,000 (1993)
- AT&T Foundation: *WEPAN Regional Training Seminars*: \$50,000 (1992-93)
- National Science Foundation: *Career Access For Women in Engineering*: \$219,963 (1991 -94)
- National Science Foundation: *Young Scholars Program*: \$158,972 (1989-91)
- New Jersey Department of Higher Education: *Math & Me: A Future Together!*: \$21,227 (1986-87)
- Exxon Foundation: *Assessment of the Stevens Women in Engineering Program*: \$42,450 (1985-86)

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## SELECTED PUBLICATIONS

Metz, S.S. (2007). Attracting the Engineering of 2020 Today. In R. Burke and M. Mattis (Eds.) *Women and Minorities in Science, Technology, Engineering and Mathematics: Upping the Numbers*. Edward Elgar Publishing, Northampton, MA.

Bogue, B., and Metz, S.S. (2005). FacultyForTheFuture.org. Proceedings of the WEPAN/NAMEPA Joint Conference. <http://www.x-cd.com/wepan05/prof20.html>

Rinehart, J., Metz, S.S., and Woods, S. (2003). WEPAN Position Statement. Proceedings of the Pan-Organizational Summit on the U.S. Science and Engineering Workforce. The National Academies Press, pp.195-200.

Muller, C.B., and Metz, S.S. (2002). Burying the Pipeline and Opening Avenues to Engineering. ASEE PRISM . American Society for Engineering Education. p. 72.

Metz, S.S. (2002). Women in Engineering and Science: Collaborative Models for the Future with Catherine Didion and Gail Mattson, International Conference of Women Scientists and Engineers (ICWES) Conference Proceedings, Ottawa, Canada.

Metz, S.S. (2002.) Resources For and From Women in Science and Engineering with Jane Daniels, International Conference of Women Scientists and Engineers (ICWES) Conference Proceedings, Ottawa, Canada.

Metz, S.S. (project director, editor, & author) (2002). Making the Connection Curriculum: Presenter's Guide with Karen Samuelsen – a resource for professionals and lay people to introduce engineering to students in grades 3-12, Connections newsletters, and hands-on engineering based activities with Dr. Martha Cyr, Tufts University. Funded by Lucent Technologies Foundation. Women in Engineering Programs & Advocates Network. [http://www.wepan.org/events\\_connection.html](http://www.wepan.org/events_connection.html)

Brainard, S.G., Metz, S.S., and Gilmore, G. (1999). WEPAN Pilot Climate Survey: Exploring the Environment for Undergraduate Engineering Students. Proceedings of the 1999 IEEE/ISTAS Conference on Women and Technology: Historical and Professional Perspective, pp .61-71.

Didion, C., Mattson, G., and Metz, S.S. (2002). Women in Engineering and Science: Collaborative Models for the Future, Proceedings of the 2002 International Conference of Women Scientists and Engineers (ICWES).

Metz, S.S. (Ed.). (1996). Increasing Access for Women in Engineering, The Fund for Improvement of Postsecondary Education, U.S. Department of Education. Grant # P116B41893-95. Stevens Institute of Technology: Hoboken, N.J.

Metz, S.S. and Bott, K. (1996). Developing Pre-College Programs. In S. S. Metz (Ed.). Increasing Access for Women in Engineering. The Fund for Improvement of Postsecondary Education, U.S. Department of Education. Grant # P116B41893-95. Stevens Institute of Technology: Hoboken, N.J. (pp. 109 - 178).

Metz, S.S. (Ed.). (1994, 1995, 1996, 1997). Women in Engineering Programs & Advocates Network Annual Conference Proceedings. Joint proceedings with the National Association of Minorities in Engineering Programs Administration in 1997.

Metz, S.S. (1998). The Role of Professional Associations in Recruiting, Developing & Retaining Women in the Engineering Professions, Tackling the Engineering Resources Shortage Conference Proceedings. The International Society for Optical Engineering. pp. 91-95.

Brainard, S.G., and Metz, S.S. (1996). A US Partnership for Change: Industry, Education, Government & WEPAN. UNESCO Conference Proceedings, Paris, France.

Metz, S.S. (Ed.) (1993). What Do Engineers Do? - a book including demonstrations, labs and research projects to encourage students in grades 7-12 to study engineering. Stevens Institute of Technology, Hoboken, NJ.

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