

Sara Wadia-Fascetti

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EDUCATION

- 1991 - 1994 **Ph.D.** in Civil Engineering; Stanford University, Stanford, CA. (Sept. 1994)
Dissertation: “*Adaptive Dynamic Analysis Considering Structural Lifespan: An Approach Based on Fuzzy Mathematics.*” **Advisor:** Professor H. Allison Smith
- 1990 - 1991 **Master of Science** in Civil Engineering (emphasis in Structural Engineering); Stanford University, Stanford, CA. (Sept. 1991)
- 1986 - 1990 **Bachelor of Science** in Civil Engineering (with a double major in Engineering and Public Policy); Carnegie Mellon University, Pittsburgh, PA. (June 1990)

PROFESSIONAL EXPERIENCE

- 2000 – present **Associate Professor** of Civil Engineering, Department of Civil and Environmental Engineering, Northeastern University, Boston, MA.
Research areas: structural condition assessment, uncertainties in structural systems, structural deterioration prediction models, bridge management systems, structural dynamics and earthquake engineering.
- 2004 – present **Director**, GAANN Doctoral Fellowship Program for Sensing, Diagnostics, and Rehabilitation of Structural Systems.
- 2001 – 2002 **Visiting Associate Professor** of Civil Engineering, Department of Civil and Environmental Engineering, Tufts University, Medford, MA.
- 1999 – present **Director**, CONNECTIONS, a program to strength the pathways for women and girls to pursue careers in engineering and science. See section on Connections.
- 1994 - 2000 **Assistant Professor** of Civil Engineering, Department of Civil and Environmental Engineering, Northeastern University, Boston, MA.
- 1991 - 1994 **Research Assistant**, Department of Civil Engineering, Stanford University, Stanford, CA. *Research areas:* calibration and degradation modeling procedure for quantification of structural uncertainties during the analysis stage of structural design, system identification techniques for civil structures.
- 5/90 - 9/90 **Manufacturing Engineer**, Lockheed Corporation, Sunnyvale, CA.
- 1989 - 1990 **Undergraduate Research Assistant**, Carnegie Mellon, Engineering & Public Policy.
- '88 & '89 **Engineering Intern**, San Dieguito Engr. & Rick Engr, in CA, respectively

HONORS & AWARDS

- **Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring, 2002** selected by President Bush and awarded at the White House March 18, 2003.
- **Minorities in Engineering Award, 2002** for leadership related to the recruitment and retention of women in engineering, American Society of Engineering Education National Award.
- **President’s Aspiration Award, 2002** from Northeastern President Freeland for leadership related to Northeastern University aspirations to become a national research student-centered urban university.
- **Career Development Award, 1997** National Science Foundation.
- **Civil Engineering Professor of the Year, 1997** Northeastern University Chi Epsilon Chapter.
- **Stephen Omar Lee Award, 1990** for best Engineering & Public Policy project, Carnegie Mellon.

PROFESSIONAL REGISTRATION

1990 Engineer-In-Training

TEACHING EXPERIENCE

COURSES TAUGHT

1994 - present Northeastern University, Dept. of Civil and Environmental Engineering

- Structural Dynamics (CIV 3503; graduate)
- Advanced Structural Analysis (CIV 3536; graduate)
- Structural Analysis I (CIV 1220; undergraduate)
- Structural Analysis II (CIV 1222; undergraduate)
- Steel Design I (CIV 1510; undergraduate)
- Introduction to the Study of Engineering (GE 1001; freshman)

2001 – 2002 Tufts University, Dept. of Civil and Environmental Engineering

- Earthquake Engineering (EN-24; Freshman Course)

GRADUATE THESIS & REPORT SUPERVISION

S. Wadia-Fascetti is the primary supervisor for all students listed unless noted otherwise

Continuing Work (topics will be further defined as work progresses)

- [1] § *Condition Assessment of Bridge Structures*. A Ph.D. Dissertation by Keary LeBeau, PhD Candidate.
- [2] § *A Virtual TestBed for Civil Infrastructure Subsurface Imaging and Diagnostics*. A Ph.D. Dissertation by Kimberly Belli.

Completed MS Theses

- [3] § *Investigations In Model Updating in the Presence of Modeling Uncertainty and Measurement Error*. A Masters Thesis by Alex Bonnar. (completed Spring 2004)
- [4] ¥ *Short Fall an Educational Game on Environmental Issues in Supply Chain Management*. A Masters Thesis by Jessica Corriere. Supported partially by S.Wadia-Fascetti and advised by Prof. J. Isaacs. (completed Spring 2003)
- [5] § *A Cost Evaluation of Magnetorheologic (MR) Dampers for use in Semi-Active Structural Control*. A Masters Thesis by Tim Lannen. (completed September 2002)
- [6] § *Improving the Investigation of Bridge Deck Condition: From Ground Penetrating Radar to a Proposed Defect Assessment Tool*. A Masters Thesis by Kim Belli. (completed August 2002)
- [7] § *Refined Connection Modeling*. A Masters Thesis by Steve Capasso. (completed May 2001)
- [8] § *Relationships between Structural Theory and Hands-on Activities with Application to Education*. A Masters Thesis by Susie Siden. (completed May 2001)
- [9] § *Visualization of Geotechnical Engineering Theory for Educational Purposes*. A Masters Thesis by Dawn Dzekevich. Dawn is supported by S. Wadia-Fascetti and advised by Prof. D. Langseth. (completed May 2001)
- [10] § *Improving Structural Parameter Estimation Results considering Modeling Error*. A Masters Thesis by Saygin Ozgu (completed May 2000).

§ Student graduate education is completely supported by S. Wadia-Fascetti.

¥ Student graduate education is partially supported by S. Wadia-Fascetti.

TEACHING EXPERIENCE (Continued)

Completed MS Theses (Continued)

- [11] *Condition Assessment of Hurricane Damaged Houses: A Proposed Framework and Methodology*. A Masters Thesis by Musa Hossein (completed June 1998).
- [12] *Ground Motion Uncertainty Models: A Comparative Study*. A Masters Thesis by Burcu V. Gunes (completed August 1996).

Completed MS Reports

- [13] [§]*Nondestructive Testing to Detect Concrete Delamination*. A Masters Report by Linnea Linton. Spring 2003
- [14] [¥]*A Quality Measure for Data used in Structural Identification*. A Masters Report by Francisco Rivero (completed March 2000).
- [15] *Interpolation of a Bridge Life-Cycle Based on Inspection Reports and Maintenance History*. A Masters Report by John Watters (completed August 1998).
- [16] *Seismic Vulnerability of Older Highway Bridges in the East*. A Masters Report by Jun Qun (completed May 1997).
- [17] *Effect of Aging and Deterioration on the Load Carrying Capacity of Highway Bridges*. A Masters Report by Ivanna Almanzar (completed May 1996).
- [18] *Investigation of a Semi-Rigid Bolted Connection*. A Masters Report by Kai-Ming Hsieh (completed May 1996).
- [19] *Effects of Hysteresis Models on Dissipated Energy*. A Masters Report by Rosa Castro-Krawiec (completed August 1995).

Other

- [20] Host to Japanese PhD student Yasutoshi Nomura from Kansai University and advised by Professor Hitoshi Furuta during the Winter 2003 quarter.

UNDERGRADUATE PROJECT SUPERVISION

- [1] Undergraduate research projects supported by the National Science Foundation Research Experiences for Undergraduates (REU) supplement program. All students continued towards graduate education.
 - **Lev Pinelis** (Carnegie Mellon BS '04, expected) Summer 2002 REU participant.
 - **Rick Unruh** (NU BS '03, expected) MIT MEng Civil Engineering Expected Spring 2004.
 - **Josh Crawford** (NU BS '01) Northeastern University towards an MS in structural engineering as of Fall 2001. Josh is supported by a research assistantship.
 - **Miriam Paschetto** (NU BS '98) Univ. of Illinois Urbana-Champaign towards a MS in structural engineering and is supported by an NSF Graduate Fellowship as of Fall 1998.
 - **Jason Oliveira** (NU BS '99) Boston Architecture Center towards a Masters of Architecture as of Fall 1999.
 - **Harry F. Rhodes** (NU BS '98) Northeastern University towards an MS in structural engineering as of Fall 1999.
- [2] Supervised 15 undergraduate students in independent study and senior honor's thesis projects. Project topics include web-based tutorials, bridge maintenance case histories, writing matlab-based structural analysis programs, data analysis, and parameter estimation.

[§] Student graduate education is completely supported by S. Wadia-Fascetti.

[¥] Student graduate education is partially supported by S. Wadia-Fascetti.

PUBLICATIONS

Reviewed (in Journals and Books; accepted, in press, or in print)

- [1] Lebeau[†], K. and **Wadia-Fascetti, S.** (In Review) “Fault Tree Analysis of Bridges.” *International Journal of Computers and Structures*. Submitted November 10, 2003.
- [2] Belli[†], K. and **Wadia-Fascetti, S.** (In Review) “Civil Infrastructure Defect and Nondestructive Testing Database.” *Journal of Computing in Engineering*. Submitted September 8, 2003.
- [3] Sanayei, M., **Wadia-Fascetti, S.**, Ayra[†], B., Santini[†], E. (2001) “Significance of Modeling Error in Structural Parameter Estimation.” *Journal of Computer-Aided Civil and Infrastructure Engineering*. **16**(1). pp.12-27, January 2001.
- [4] **Wadia-Fascetti, S.** and Leventman, P. G. (2000) "E-Mentoring: A Longitudinal Approach to Mentoring Relationships for Females Pursuing Technical Careers" American Society of Engineering Education (ASEE) *Journal of Engineering Education*. **89**(3). pp. 295-300, July 2000.
- [5] **Wadia-Fascetti, S.** and Gunes[†], B., (2000) "Earthquake Response Spectra Models Incorporating Fuzzy Logic with Statistics." *Journal of Computer-Aided Civil and Infrastructure Engineering*. **15**(2). pp. 134-146.
- [6] Chiu, G. L. F. and **Wadia-Fascetti, S.** (1999) "Assessment and Quantification of Hurricane Induced Damage to Houses." *Wind and Structures, An International Journal*. **2**(3), pp. 133-150, September 1999.
- [7] Sanayei, M., McClain[†], J., **Wadia-Fascetti, S.**, Santini[†], E. (1999) “Parameter Estimation Incorporating Modal Data and Boundary Conditions.” *ASCE Journal of Structural Engineering*. **125**(9), pp. 1048-1055, September 1999.
- [8] Gunes[†], B. Arya[†], B., **Wadia-Fascetti, S.**, Sanayei, M. (1999) “Practical Issues in the Application of Structural Identification.” (Invited paper) in *Computational Mechanics in Structural Engineering: Recent Developments*. Ed. by F. Cheng and Y. Gu, Elsevier Scientific Ltd. pp. 193-206, 1999.
- [9] **Wadia-Fascetti, S.** and Smith, H. A., (1996) “Calibration of Structural Models Using Fuzzy Mathematics.” (Invited paper) *Microcomputers in Civil Engineering*. **11**(1), pp. 19-35, January 1996.
- [10] Smith, H. A. and **Wadia, S. J.**, (1992) “Adaptive Design Models Considering Lifespan of Buildings.” *Journal of Intelligent Material Systems and Structures*. **3**(4), pp. 585-599, October 1992.
- [11] Mukerji, K., **Wadia-Fascetti, S.** (In Review) *Professional Insight in the Classroom*, Submitted to the ASCE Journal of Professional Issues as a Teaching Lessons Learned feature article.

Working Papers to be submitted for Peer-Review

- [12] **Wadia-Fascetti, S.** with Bonnar[†], Alex. (In Preparation) “Controlling Modeling Error in Parameter Estimation.” To be submitted to the ASCE Journal of Structural Engineering, Spring 2004.
- [13] Lannen, T and **Wadia-Fascetti, S.** (In Preparation) “A Cost Evaluation of Magnetorheologic (MR) Dampers for use in Semi-Active Structural Control”. To be submitted to the International Journal of Earthquake Engineering and Engineering Vibration.
- [14] **Wadia-Fascetti, S.** with Sanayei, M. (In Preparation) “Challenges and Solutions in Parameter Estimation of Structures.” To be submitted to the International Journal of Structural Control and Health Monitoring.

[†] Graduate student author

Conference Papers

- [1] Reisberg, R., **Wadia-Fascetti, S.** (2003) “Connections: Strengthening Pathways for Women Studying Engineering” Abstract submitted (and accepted) to *American Society for Engineering Education 2004 Annual Conference*.
- [2] Reisberg, R., **Wadia-Fascetti, S.** (2003) “CONNECTIONS: A Focus on Career Preparation for Women in Engineering.” *Proceedings of the 2003 American Society for Engineering Education Annual Conference & Exposition* Copyright © 2003, American Society for Engineering Education.
- [3] Chiu, Arthur N. L., Chiu, Gregory. L. F, and **Wadia-Fascetti, Sara-Jean.** (2002) “The Effects of Complex Topography on Spatial Damage Distribution.” *Proceedings of The Third U.S.-Japan Workshop on Wind Engineering*. November 2002.
- [4] **Wadia-Fascetti, S.**, Grivas, D., Belli[†], K., and Lebeau[†], K. (2002) “Defect Diagnosis and Impact on Bridge Performance” First International Conference on Bridge Maintenance, Safety and Management (IABMAS) 2002, Barcelona, Spain, July 14 – 17, 2002. Abstract accepted & paper submitted.
- [5] Grivas, D., **Wadia-Fascetti, S.**, Schultz, C. B. (2002) “Applications of Subsurface Imaging to Civil Infrastructure: A Research Agenda” First International Conference on Bridge Maintenance, Safety and Management (IABMAS) 2002, Barcelona, Spain, July 14 – 17, 2002. Abstract accepted & paper submitted.
- [6] Campbell, P., **Wadia-Fascetti, S.**, Perlman, L., Hadley, E. (2002) “To Be Confident or Not To Be Confident: An Engineering Student Evaluation.” Abstract (#7058) submitted to the 13th Annual Conference of WEPAN 2002 Conference, *Engineering for All Women: Exploring Perspectives*, San Juan, Puerto Rico, June 8 - 11, 2002.
- [7] Mukerji, K., **Wadia-Fascetti, S.** (2002) “A College Course for Women Studying Engineering Taught by Professional Women,” Abstract (#7053) submitted to the 13th Annual Conference of WEPAN 2002 Conference, *Engineering for All Women: Exploring Perspectives*, San Juan, Puerto Rico, June 8 - 11, 2002.
- [8] ^{§†}**Wadia-Fascetti, S.**, Grivas, D., Schultz, C. B. (2002) “Subsurface Sensing for Highway Infrastructure Condition Diagnostics: Overview of Current Applications and Future Development.” Paper No. 02-3987. Transportation Research Board 81st Annual Meeting, Washington D. C., January 13 – 17, 2002.
- [9] Chiu, Arthur N. L., Chiu, Gregory. L. F, and **Wadia-Fascetti, Sara-Jean.** (2001) “The Investigation of Topographic Effects on Spatial Damage Distribution in Hurricane Iniki,” *Proceedings of the 5th Asia-Pacific Conference on Wind Engineering (APCWEV)*, Kyoto, Japan, October 21 – 24, 2001.
- [10] Chiu, Arthur N. L., Chiu, Gregory. L. F, and **Wadia-Fascetti, Sara-Jean.** (2001) “Consideration of Complex Topography Effects on Design Wind Speeds,” *Proceedings of the 8th East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-8), Challenges in the 21st Century*, Singapore, December 5 – 7, 2001.
- [11] LeBeau[†], K. and **Wadia-Fascetti, S.** (2001) “A Model of Deteriorating Structures” *Computational Fluid and Solid Mechanics*, K. J. Bather (Editor), *Proceedings of the Conference on Computational Fluid and Solid Mechanics*. Massachusetts Institute of Technology, Cambridge, MA, June 2001.

[†] Paper presented by Sara Wadia-Fascetti

PUBLICATIONS: *Conference Papers (continued)*

- [12] LeBeau[†], K. and **Wadia-Fascetti, S.** (2000) "A Fault Tree Model of Bridge Deterioration." *Specialty Conference on Probabilistic Mechanics and Structural Reliability*, ASCE, University of Notre Dame, Notre Dame, Indiana, July 2000.
- [13] [‡]**Wadia-Fascetti, S.**, Ozgu[†], S., Sanayei, M. (2000) "Controlling Modeling Error in Structural Parameter Estimation." *Third International Workshop on Structural Control: Designing Civil Engineering Structures by Performance*. Paris, France, July 6 – 8, 2000.
- [14] ^{§‡}**Wadia-Fascetti, S.**, Rivero[†], F., Sanayei, M. (1999) "An Assessment of Data Quality for Structural Identification." Proceedings of the International Conference on Applications of Statistics and Probability, December 13 – 15, 1999. Sydney, Australia. Paper reviewed and accepted for presentation and publication.
- [15] [‡]**Wadia-Fascetti, S.** and Tarnowski[†], M. (1998) "Integrating Communication, Computer Technology, and Theory in a Structural Analysis Laboratory." Session 1275. ASEE Annual Convention, Seattle, WA, July 1998.
- [16] **Wadia-Fascetti, S.**, Gunes[†], B., Aktan, A. E., Lennett, M., Sanayei, M., Arya[†], B., Helmicki, A., and Wilson[†], A. (1998) "Structural Identification: A Tool for Bridge Reliability Evaluation." Paper Number T216-4. World Structures Congress, San Francisco, CA, July 1998.
- [17] Sanayei, M., **Wadia-Fascetti, S.**, McClain[†], J. A. S., Gornshteyn[†], I., Santini[†], E. M., (1998) "Structural Parameter Estimation Using Modal Responses and Incorporating Boundary Conditions." Paper Number T118-2. World Structures Congress, San Francisco, CA, July 1998.
- [18] Sanayei, M., Doebling, S. W., Farrar, C. R., **Wadia-Fascetti, S.**, Arya[†], B. (1998) "Challenges in Parameter Estimation for Condition Assessment of Structures" Paper Number T216-5. World Structures Congress, San Francisco, CA, July 1998.
- [19] [‡]**Wadia-Fascetti, S.**, Sanayei, M., Gunes[†], B. (1998) "Significance of Modeling Error on Parameter Estimation" Proceedings of the 12th ASCE Engineering Mechanics Specialty Conference, San Diego, CA, May 1998. pp. 201-204.
- [20] [‡]**Wadia-Fascetti, S.**, and Gunes[†], B. V., (1996) "Considering Uncertainty in Earthquake Response Spectra." ASCE Specialty Conference: Natural Disaster Reduction. Washington, DC, December 1996. pp. 211-212.
- [21] Chiu, G. C., **Wadia-Fascetti, S.**, Hossein[†], M. (1996) "Post-Hurricane Investigations: Quantifying Damage." ASCE Specialty Conference: Natural Disaster Reduction. Washington, DC, December 1996. pp. 74-75.
- [22] [‡]**Wadia-Fascetti, S.**, and Smith, H. A., (1995) "Use of Fuzzy Logic in the Quantification of Dynamic Uncertainties Due to Degradation." *Restructuring: America and Beyond Proceedings of Structures Congress XIII*, edited by M. Sanayei, Boston, MA, April 1995. pp. 1655-1658.
- [23] [‡]**Wadia-Fascetti, S.**, Smith, H. A., and Kiremidjian, A. S., (1994) "Quantification of Ground Motion Uncertainties Based on Fuzzy Set Mathematics." *Proceedings of the 5th National Conference on Earthquake Engineering*. Chicago, IL, July 1994.

[§] Peer reviewed conference paper

[‡] Paper presented by Sara Wadia-Fascetti

[†] Graduate student author

TECHNICAL REPORTS

- [1] **Wadia-Fascetti, S.**, (1998) Final Project Report *Bridging Creativity and Integrated Thinking into the Structural Engineering Curriculum*. Department of Civil & Environmental Engineering, Northeastern University, Boston, MA. July 1998. Submitted to Northeastern University.
- [2] **Wadia-Fascetti, S.**, (1998) Final Research Report *Uncertainty Models for Interstory Drift: Methods Based on Fuzzy and Random Variables*. Department of Civil and Environmental Engineering, Northeastern University, Boston, MA. August 1998. Submitted to Northeastern University.
- [3] Hayashi, Y., Takahashi, I., Mori, M., Togari, Y, Mita, A., Smith, H. A., **Wadia-Fascetti, S.**, (1995) Izumi Research Institute Technical Report No. IRI-95-02, *Joint Research Program on Optimization of Structural Design Considering Life-Span of Buildings*, Izumi Research Institute, Shimizu Corporation, Tokyo, Japan, March 1995.
- [4] **Wadia-Fascetti, S.** and Smith, H. A., (1994) John A. Blume Earthquake Engineering Center Report No. 113, *Adaptive Dynamic Analysis Considering Structural Lifespan: An Approach Based on Fuzzy Mathematics*. Dept. of Civil Engineering, Stanford University, Stanford, CA 94305-4020, August 1994.

PRESENTATIONS (in addition to those listed under publications)

Invited Presentations: International

- [1] *§**Wadia-Fascetti, S.** (2000) "Controlling Modeling Error in Geometric Parameter Estimation." To be presented at the workshop titled "Third International Workshop on Structural Control: Designing Civil Engineering Structures by Performance." Paris, France, July 6 – 8, 2000.
- [2] ***Wadia-Fascetti, S.** (1999) "Structural Health Monitoring: Challenges in Implementation." Presented at the workshop titled "Nonlinear System Identification and Structural Health Monitoring." Kyoto, Japan. November 19 - 20, 1999.
- [3] *§**Wadia-Fascetti, S.** (1998) "Practical Issues in the Application of Structural Identification" Presented at the 2nd US-China Symposium / Workshop on Recent Developments and Future Trends of Computational Mechanics in Structural Engineering, Dalian, China. May 26, 1998.

Invited Domestic Presentations (excluding conference presentations with published papers)

- [4] Belli, K. (2003) (advised by **Wadia-Fascetti**) "Virtual Testbed Framework for Civil Infrastructure and Geotechnical Applications." *CenSSIS Research and Industrial Collaboration Conference*, November, 2003, Boston, Massachusetts
- [5] **Wadia-Fascetti, S.** (2003) "Inter-generational mentoring." *Best-Practices in Mentoring Symposium* in conjunction with the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring. Washington D. C., March 17, 2003.
- [6] **Wadia-Fascetti, S.**, et al. (2001) "Incorporating Modeling Error in Structural Identification." *American Control Conference*. Arlington, VA, June, 2001.
- [7] **Wadia-Fascetti, S.** (2000) "Towards Successful Structural Condition Assessment." Presented as part of the Department of Civil & Environmental Engineering Spring Seminar Series, University of Rhode Island, April 5, 2000.

* Also listed under workshop participation

§ Coincides with a paper listed under Publications.

PRESENTATIONS (*continued*): **Invited Domestic Presentations**

- [8] **Wadia-Fascetti, S.** (2000) "CONNECTIONS: A Working Partnership for the Next Generation of Women in Science, Technology, Engineering, and Mathematics (STEM)." Presented to the College of Engineering at the University of Rhode Island, April 5, 2000.
- [9] **Wadia-Fascetti, S.** (2000) "Towards Successful Structural Condition Assessment." Presented to Department of Civil & Environmental Engineering, Tufts University, March 10, 2000.
- [10] **Wadia-Fascetti, S.** (1999) "Data Quality Indices for Structural Condition Assessment." Presented as part of the Fall 1999 Seminar Series for the Department of Civil Engineering at the University of Illinois at Urbana-Champaign, November 8, 1999.
- [11] **Wadia-Fascetti, S.** (1998) "Significance of Errors in Structural Identification." Part of the Spring Colloquium Series 1998, Department of Civil and Environmental Engineering at the Massachusetts Institute of Technology, March 12, 1998.
- [12] **Wadia-Fascetti, S.** (1998) "Fuzzy Set Math: An Introduction and an Overview of Possible Applications." Part of the seminar series for the Department of Civil and Environmental Engineering at Tufts University, January 30, 1998.

Invited Presentations: American Society of Civil Engineers (ASCE) Technical Committee Meetings

- [13] **Wadia-Fascetti, S.** (1999) "Use of Bridge Case-Histories in Prediction Model Development." Presentation to ASCE Committee on Safety of Bridges, New Orleans, Louisiana, April 18, 1999.
- [14] **Wadia-Fascetti, S.** (1996) "Bridge Structural Identification for Condition Assessment." Presentation to ASCE Special Task Committee on Structural Identification, Chicago, IL, April 13, 1996.

Poster

- [15] *Sensor Fusion for Civil Infrastructure Diagnostics*, a poster presentation prepared by students of D. Grivas, and **S. Wadia-Fascetti**. Displayed at the CenSSIS Year 3 site visit April 2003.
- [16] *Connections*, a poster presentation prepared by **S. Wadia-Fascetti**. Displayed at the CenSSIS Year 3 site visit April 2003.
- [17] *An Overview of the Connections Program* a poster presentation prepared by K. Mukerji and **S. Wadia-Fascetti** proposed for exhibition at the 13th Annual Conference of WEPAN 2002, *Engineering for All Women: Exploring Perspectives*, San Juan, Puerto Rico, June 8 – 11, 2002.
- [18] *Sensor Fusion for Civil Infrastructure Diagnostics*, a poster presentation prepared by D. Grivas, and **S. Wadia-Fascetti**. Prepared as a progress report to CenSSIS administration, February 15, 2002. This poster will be displayed at the CenSSIS Year 2 site visit May 2002.
- [19] *Connections Program Activities: 2000 – 2001*, Presented at the National Science Foundation Program for Gender Equity PI Meeting, October 2001. Presentations also made in Oct. 1999 & Oct. 2000.
- [20] *Advanced Diagnostics for Civil Infrastructure and Geotechnical Applications*, a poster presentation prepared by D. Grivas, **S. Wadia-Fascetti**, B. C. Schultz. Prepared as a progress report to CenSSIS administration, March 1, 2001. This poster was displayed at the CenSSIS Year 1 site visit May 2001.

PRESENTATIONS (continued): Poster

- [21] *Looking Beneath the Surface: Applications of CenSSIS Technologies to Civil Infrastructure and Geotechnical Systems*, a poster presentation prepared by D. Grivas, **S. Wadia-Fascetti**, K. Belli, Brawijaya Fnu, Heejeong Shin. Presented at the CenSSIS Year 1 site visit, May 2001.
- [22] *Connections Program* participation invited to the National Science Foundation Workshop for Improving and Assessing the Impact of Programs to Encourage Girls to Pursue Science, Engineering, and Mathematics at Santa Clara University. White paper by J. Hart and **S. Wadia-Fascetti**. August 1999. <http://www.scu.edu/SCU/Projects/NSFWorkshop99>.
- [23] *Introducing the Connections Program at Northeastern University* a poster presentation prepared by **S. Wadia-Fascetti** and J. Hart and exhibited at the **Women in Engineering Summit** sponsored by the National Academy of Engineering. Washington D. C., May 1999.
- [24] *Introducing the Connections Program at Northeastern University* a poster presentation presented by **S. Wadia-Fascetti** and J. Hart at the Northeastern University **Research and Scholarship Poster Session: Making Connections**. May 1999.
- [25] ***Wadia-Fascetti, S.** and LeBeau[†], K. (1999) *Predicting Bridge Life-Cycle Deterioration by Integrating Condition States with System Performance*, at the National Science Foundation CAREER Program P. I. Meeting. January 10-12, 1999, Washington, D C.
- [26] **Wadia-Fascetti, S.**, Cross[†], M., Leventman, P. (1998) *Northeastern University E-Mentoring Program*, at the Poster Session titled, "Connections: Making Civil Engineering a Realistic Career Option." '98 American Society of Civil Engineers National Convention, Oct. 20, 1998, Boston, MA.
- [27] **Wadia-Fascetti, S.** (1998) *Bridge Condition Assessment: Current Practice and Future Trends*, at the Northeastern University Centennial Research and Scholarship Poster Session. May 1998.

FUNDED PROPOSALS

- [1] **GAANN Fellowship Program: Interdisciplinary Graduate Program in Sensing, Diagnostics, and Rehabilitation of Structural Systems**
PI: Sara Wadia-Fascetti
Sponsor: Department of Education, Graduate Assistantships in Areas of National Need
CoPIs: Bernal (CEE); Sasani (CEE); Adams (MIE); Shafai (ECE); Rappaport (ECE)
Duration: September 1, 2004 - August 31, 2007
Amount: \$500,000
- [2] **Presidential Award for Excellence in Science, Engineering, and Mathematics Mentoring**
PI: Sara Wadia-Fascetti
Sponsor: National Science Foundation (Award # HRD- 0227872)
Program Director: Marilyn Suiter
Duration: April 1, 2003 - March 31, 2005
Amount: \$10,000
- [3] **CONNECTIONS: Women in Science, Engineering, and Math (SEM): Making Connections Between Career, Curriculum, and Personal Development**
PI: Sara Wadia-Fascetti
Sponsor: National Science Foundation (Award # HRD-9813896)
Program Director: Dr. Ruta Sevo (awarded); Dr. Margrete Klein (current)
Co-PIs: E. Duwart, P. Gilmore, L. Watkins (Girl Scouts), P. Leventman
Duration: January 1, 1999 - December 31, 2003 (with extension)
Amount: \$899,523 (amount requested: \$899,523)

[†] Graduate student author

FUNDED PROPOSALS *(continued)*

- [4] ***A Career Development Award: Predicting Bridge Life-Cycle Deterioration By Integrating Condition States with System Performance***
PI: Sara Wadia-Fascetti
Sponsor: National Science Foundation (Award # CMS-9702656)
Program Director: Dr. Ken Chong (awarded), Dr. Vijay Gopu (current)
Duration: July 1, 1997 - June 30, 2003 (with extension)
Amount: \$334,000 (amount requested: \$200,000 base + \$15,000 REU support + \$110,000 matching from NSF + \$9,000 for international collaboration)
- [5] ***A Virtual Testbed for Civil Infrastructure Diagnostics***
PI: Sara Wadia-Fascetti
Sponsor: Center for Subsurface Sensing and Imaging (CenSSIS) – An NSF ERC
Duration: July 2004 – June 2005
Amount: \$44,000
- [6] ***Subsurface Imaging for Civil Infrastructure Diagnostics***
PI: Sara Wadia-Fascetti
Sponsor: Center for Subsurface Sensing and Imaging (CenSSIS) – An NSF ERC
Duration: July 2003 – June 2004
Amount: \$44,000
- [7] ***Sensor Fusion for Civil Infrastructure Diagnostics***
PI: Sara Wadia-Fascetti
Sponsor: Center for Subsurface Sensing and Imaging (CenSSIS) – An NSF ERC
Duration: July 2002 – June 2003
Amount: \$40,716
- [8] ***Assessment of Sensor Fusion for Bridge Deck Evaluation***
PI: Dimitri Grivas (Rensselaer Polytechnic Institute)
Co-PI: Sara Wadia-Fascetti
Sponsor: Center for Subsurface Sensing and Imaging (CenSSIS) – An NSF ERC
Duration: July 2001 – June 2002
Amount: \$10,000 to Wadia-Fascetti (\$15,000 to Grivas @ RPI)
- [9] ***Adobe Software Donation to Connections***
PI: Sara Wadia-Fascetti, Connections
Sponsor: Adobe Systems Inc.
Amount: Equivalent to \$72,267 in software licenses
- [10] ***Bridge Structural Identification for Condition Assessment***
PI: Sara Wadia-Fascetti
Sponsor: National Science Foundation (Award # CMS-9622515)
Program Director: Dr. Shih-Chi Liu;
Collaborators: Dr. M. Sanayei (Tufts); Dr. E. Aktan (Drexel); Dr. A. Helmicki (U. of Cincinnati).
Duration: September 1, 1996 - August 31, 1999 (with 1-yr extension until August 31, 2000)
Amount: \$101,496 + \$5,000 REU support (total project support: \$429,598 at all universities)

FUNDED PROPOSALS *(continued)*

[11] *Partial Support for a Panel Workshop Titled, Connections: Making Civil Engineering a Realistic Career Option*

PI: Sara Wadia-Fascetti
Sponsor: National Science Foundation (Award # CMS-9817619)
Program Director: Dr. Priscilla Nelson (awarded) / Dr. Clifford Astill (current)
Duration: August 1, 1998 – August 31, 000
Amount: \$8,366 (amount requested \$8,366)

[12] *Equipment Request for the HP Connections Computer Laboratory*

Director: Sara Wadia-Fascetti (Co-Director, Dr. Jo-Anne Hart)
Sponsor: Hewlett-Packard
Duration: February 2000
Amount: \$15,300 in computer equipment (approx.)

[13] *Bridging Creativity and Integrated Thinking into the Structural Engineering Curriculum*

PI: Sara Wadia-Fascetti
Sponsor: Northeastern University Instructional Development Fund
Duration: June 1, 1996 - June 30, 1997
Amount: \$5,000 (amount requested \$5,000)

[14] *Uncertainty Models for Interstory Drift: Methods Based on Fuzzy and Random Variables*

PI: Sara Wadia-Fascetti
Sponsor: Northeastern University Research & Scholarship Development Fund
Duration: July 1, 1995 - December 31, 1996
Amount: \$9,100 (amount requested \$10,000)

[15] *Application for Travel Fellowship: Advanced Analytical and Experimental Methods for Condition Assessment and Hazard Mitigation*

Applicant: Sara Wadia-Fascetti
Sponsor: Japan Society for the Promotion of Science via the United States' NSF
Duration: February 22, 1997 - March 10, 1997
Amount: The award covered airfare and travel stipend

WORKSHOP PARTICIPATION

International Workshops

- 2004 **Invited Participant**, "U.S. - Korea Joint Seminar / Workshop on Smart Structures Technologies." Seoul, Korea, 2-4 September, 2004.
- 2000 **Invited Participant**, "Third International Workshop on Structural Control: Designing Civil Engineering Structures by Performance." Paris, France. July 6 – 8, 2000
- 1999 **Invited Participant**, Workshop on "Nonlinear System Identification and Structural Health Monitoring." Kyoto University, Kyoto, Japan. November 19 – 20, 1999. Six participants from the United States will attend this meeting
- 1998 **Invited Delegate**, 2nd US-China Joint Symposium/Workshop on "Recent Developments and Future Trends of Computational Mechanics in Structural Engineering" May 25-28, 1998, Dalian, China. Eleven U.S. delegates attended this meeting
- 1997 **Participant**, The Second U. S. - Japan Workshop on Cooperative Research for Mitigation of Urban Earthquake Disasters: Learning from Kobe and Northridge, Sponsored by the Ministry of Education of Japan and U. S. National Science Foundation. Tokyo, Japan, February 27 - March 1, 1997. Attended as part of the U. S. / Japan travel fellowship program.

WORKSHOP PARTICIPATION (*continued*)

National Workshops

- 2003 **Participant**, “CenSSIS Research and Industrial Collaboration Conference,” December, 2003, Boston, Massachusetts
- 2003 **Participant**, Fast Hybrid Testing Workshop, National Earthquake Engineering Simulation, Boulder, Colorado, October 9 – 10, 2003.
- 2003 **Participant**, “Network for Earthquake Engineering Simulation (NEES) Annual Meeting” May 2003, Park City, Utah.
- 2003 **Participant**, “CenSSIS Year 3 Site Visit,” April 2003, Boston, Massachusetts
- 2003 **Grantee Participant**, 2003 Division of Human Resource Development Joint Annual Meeting, March 23-25, 2003, Marriott Crystal Gateway, Washington D. C.
- 2003 **Honored Participant**, “Presidential Awards for Excellence in Science Mathematics and Engineering Mentoring.” Washington DC, March 17 – 18, 2003.
- 2002 **Participant**, “CenSSIS Research and Industrial Collaboration Conference,” December, 2002, Boston, Massachusetts
- 2002 **Participant**, “CenSSIS Year 2 Site Visit,” May 2002, Boston, Massachusetts
- 2002 **Participant**, “CenSSIS Research and Industrial Collaboration Conference,” January 29 – 30, 2002, Boston, Massachusetts
- 2001 **Participant**, “CenSSIS Year 1 Site Visit,” May 2001, Boston, Massachusetts
- ‘01, ‘00, ‘99 **Grantee Participant**, National Science Foundation Program for Gender Equity Annual Grantee Meeting, October 1999 & October 2000
- 2000 **Co-Organizer**, “Subsurface Sensing Systems for Civil Infrastructure Assessment: Setting the Agenda,” Part of the CenSSIS Research and Industrial Collaboration Conference, Nov. 13 – 15, 2000, Boston, Massachusetts
- 2000 **Nominated and Accepted Participant**, National Science Foundation Women in Engineering Leadership Conference, October 11-15, 2000, Winter Park, Colorado. Conference attendance required an application process where 36 of 160 applicants (22.5%) were accepted to attend
- 1999 **Invited Participant**, National Science Foundation CAREER Program P. I. Meeting. January 10-12, 1999, Washington, D C. Less than 20% of the Career Grantees from the Civil and Mechanical Systems Division were invited to this meeting
- 1998 **Invited Participant**, Collaboration Forum sponsored and co-organized by the National Science Foundation and the Civil Engineering Research Foundation of the American Society of Civil Engineers (ASCE). November 10, 1998, Washington, DC
- 1998 **Invited Participant**, National Science Foundation Civil and Mechanical Systems Workshop on the Integration of Engineering Research and Education. November 9 - 10, 1998, Arlington, VA
- 1997 **Invited Participant**, National Science Foundation Civil and Mechanical Systems Workshop for the Advancement & Retention of Underrepresented & Minority Engineering Educators, September 23 - 26, 1997, Arlington, VA
- 1996 **Participant**, Workshop on Structural Reliability in Bridge Engineering, October, 2-4, 1996, University of Colorado at Boulder
- 1995 **Participant**, North American Workshop on Instrumentation and Vibration Analysis of Highway Bridges for Condition Assessment and Damage Detection, July 18-20, 1995; University of Cincinnati

PROFESSIONAL SERVICE ACTIVITIES

- 2004 – present **Member Editorial Board** American Society of Civil Engineers Journal of Infrastructure Systems.
- 2003 – present **Elected Member** National Earthquake Engineering Simulation Education and Outreach Committee.
- 2002 – present **Invited Member** Boston Advisory Council to the Carnegie Institute of Technology, Carnegie Mellon University, Pittsburgh, PA
- 2000 – present **Member** Educational Advisory Committee to the Northeastern University CenSSIS Engineering Research Center
- 1999 – 2003 **Invited Member** of the Dean's Leadership Council for the Carnegie Institute of Technology, Carnegie Mellon University, Pittsburgh, PA
- 1998 – 2000 **Elected Member** Boston Society of Civil Engineers Nominating Committee

Conference / Session Organization

- 2001 **Chair** “Bridge Structural Identification Applications: Case Studies,” 2001 ASCE Structures Congress in Washington DC, May 2001
- 1998 **Session Coordinator** for three conference sessions related to civil engineering education for the 1998 ASCE National Convention, Boston, MA. The sessions are titled:
- The Evolving Capstone Design Course
 - Connections: Making Civil Engineering a Realistic Career Option
 - If I Had It To Do All Over Again...
- 1998 **Co-chair** (with Professor Achintya Haldar, University of Arizona) “Damage State Evaluation Using Structural Identification,” Structures Engineers World Congress (SEWC), San Francisco, CA, July 1998
- 1997 **Co-chair** (with Professor Masoud Sanayei, Tufts University) of the technical session, “State-of-the-Art of Structural Identification for Health Monitoring of Constructed Facilities” at the XV ASCE Structures Congress in Portland, Oregon, April 1997
- 1996 - 1998 **Member** of the Local Organizing Committee for the ASCE 1998 National Convention held in Boston, MA October 18 - 22 1998. Responsible for the Student Program

Technical Committee Membership

- 1997 – present **Member** ASCE Technical Committee on Safety of Bridges
- 1996 – 2003 **Member and Secretary ('96 – '00)** ASCE Technical Committee on Structural Identification and Health Monitoring of Constructed Facilities (control member)
- 1996 **Member** ASCE Task Committee on Structural Identification of Constructed Facilities

Service as a Reviewer

- National Science Foundation Site Review Panelist (ERC's and NEES sites)
- National Science Foundation Panel Reviews (panelist & panel co-chair)
- National Science Foundation Mail Review
- Journal of Computer-Aided Civil and Infrastructure Engineering
- Journal of Structural Engineering, American Society of Civil Engineers (ASCE)
- Journal of Engineering Mechanics, American Society of Civil Engineers (ASCE)
- Computers and Structures Journal
- National Academy of Engineering

EDUCATIONAL AND RELATED OUTREACH ACTIVITIES

- 2003 – present **Member**, Education and Outreach Committee, Network for Earthquake Engineering Simulation – also listed under professional service.
- 2000 **Attended**, College of Engineering Student Leadership Retreat
- 1999 **Attended**, the American Institute for Steel Construction Steel Educators Forum, Needham Sheraton, Needham, MA. August 18, 1999
- 1996, 1997, 1999 **Laboratory Curriculum Upgrade** of the Structural Design and Analysis Laboratory. Redesigned laboratory curricula and experiment modules with Michael Tarnowski (NU Ph.D. candidate and Laboratory Instructor)
- 1998 **Created the Student Program** at the American Society of Civil Engineers Annual Convention held in Boston, MA; October 18 – 22, 1999
- 1996 – present **Developer and Coordinator** of an electronic mentoring (E-Mentor) program. The E-Mentor program connects professional women, college students, and pre-college students on the Internet. The program is now available to all women in the College of Engineering through the Connections program with an extension to students in the College of Arts and Sciences in Fall 1999
- 1995 – 1998 **Member**, Student Affairs Committee, Boston Society of Civil Engineers, ASCE
- 1995 – 1996 **Liaison and Advisor** to Burke High School and Wilson Junior High School (schools in the Boston Public Schools system) in their applied math and science programs
- 1995 **Participant**, National Effective Teaching Institute (part of the American Society for Engineering Education Annual Conference) in Anaheim, CA June 22-28, 1995

UNIVERSITY SERVICE

- 2004 **Provost Appointed Member** of the administration evaluation committee for School of Engineering Technology, Director Walter Buchanan.
- 2003 – 2004 **Member** CEE Department faculty search committee (structures position – pending)
- 2003 **Elected Chair** of the Civil & Environmental Engineering Department Tenure Committee
- 2002 – present **Member** Civil & Environmental Engineering Department PhD Committee
- 2002 – present **Graduate Admissions Officer** -- structures
- 2001 – 2002 **Elected Member** of the Civil & Environmental Engineering Department Chair Search Committee (filled by Dr. Peter Furth)
- 2001 **Elected Member** of the Civil & Environmental Engineering Department Merit Review Committee
- 2000 – 2001 **Member** Northeastern University Scholarship Task Force
- 2000, 2001 **Member** NU Presidential Fellowship Selection Committee
- 2000 – 2001 **Member** CEE Department faculty search committee (structures position – filled by Dr. Mehrdad Sasani)
- 2000 **Participant** COE Minority Director interviews
- 2000 **Presentation** as part of the Northeastern University EdTech Brown Bag Seminar Series, December 2000.

UNIVERSITY SERVICE *(continued)*

- 1999 – present **Faculty Advisor** to students participating in Connections (an NSF funded program for the enhancement of women in engineering, science, and mathematics)
- 1999, 2000 **Presentation** as part of the Civil & Environmental Engineering Department’s Graduate Student Research Series
- 1997 – 1998 **Member** Academic Computer Advisory Committee
- 1995 - 1998 **Faculty Advisor** to Northeastern University Student Chapter, Society of Women Engineers
- 1995 - 1998 **Member** (Chair, March 97 – August 1998), College of Engineering Computer Advisory Committee
- 1995 - present **Member**, Civil & Environmental Engineering Department Undergraduate Curriculum Committee
- F95, F96, F97
F99 **Advisor** to freshman engineering students through participation in the general engineering course, GE 1001
- 1995 **Faculty representative** for the Civil Engineering Department for the College of Engineering Task Force on “Automated Systems in Engineering Education”
- 1994 - present **Participant in Freshman Recruiting** for the Civil and Environmental Engineering Department and Women in Engineering (WIE) Program. Participation includes speaking at college open houses and on WIE days to prospective students

COMMUNITY SERVICE

- 2001 - present **Member**, Parent’s Advisory Council, Creative Corner Childcare Center
- 1996 - 2002 **Active collaboration** with the Boston area Patriots’ Trail Girl Scout Council. These efforts include organizing campus events for middle school and high school girls

SOCIETY MEMBERSHIPS

Network for Earthquake Engineering Simulation (NEES)
American Society of Civil Engineers (ASCE)
Society of Women Engineers (SWE)
Boston Society of Civil Engineers (BSCES)
American Society of Engineering Education (ASEE)
Earthquake Engineering Research Institute (EERI)
Transportation Research Board (TRB) Affiliate



CONNECTIONS, A UNIVERSITY-WIDE INITIATIVE

A Northeastern University Initiative to strengthen the pathways for women and girls to pursue careers in engineering and science

Sara Wadia-Fascetti (Director, CONNECTIONS) initiated, led, and continues to manage the CONNECTIONS Program, a university-wide initiative in collaboration with the Boston area Patriots' Trail Girl Scout Council. CONNECTIONS is supported by more than \$1,500,000 in support from the National Science Foundation (funded January 1, 1999 with nearly \$900,000 in support from NSF Grant # HRD-9813896, see details under Funded Proposals) and cost sharing from Northeastern University. The program success is dependent on a strong team of individuals from 4 university units and the Girl Scouts.

Program Recognition: Connections was awarded the (2004) American Associate of University Women *Massachusetts Progress In Equity Award* as part of the organization's Legal Advocacy Fund. Other awards that recognize Connections accomplishments include: 2002 American Society of *Engineering in Education Minorities in Education Award*; 2002 Northeastern University *President's Aspiration Award*; 2002 *US Presidential Award for Excellence in Mentoring*.

Major program goals are to empower students at the transitions of their educational careers and to create:

- "high school ready" middle school graduates
- "college ready" high school graduates
- "career ready" college graduates

Program Impact & Infrastructure Changes at Northeastern University includes:

- Renovation of a Connections Center for all CONNECTIONS participants
- Establishment of an Intel Computer Museum Computer Clubhouse (<http://www.computerclubhouse.org>) on the Northeastern campus
- Merit based full tuition scholarships awarded to CONNECTIONS freshman participants each year, as of Fall 2001 25 renewable full tuition scholarships had been awarded to incoming freshmen women.
- Residential Life "Living and Learning Center" for first year college students
- Personalized advising to all college-level participants
- Special transcript notation
- Creation of a course titled *Connections Career Management for Women in Engineering Science and Mathematics*
- Implementation of a majority to all female freshman Calculus course
- A mentoring program is available to all program participants

Students at Northeastern University who participate in the CONNECTIONS curriculum benefit from programs to enhance technical expertise, develop career management skills, and exercise leadership skills. Program components at Northeastern University are extensive and include residential hall programs, collaborative and problem-based learning, a computer clubhouse, electronic mentoring programs, and pre-cooperative education.

Girl Scout participants pursue awards and badges that are designed to enhance their understanding of different engineering and science oriented careers. Participants benefit from programmed activities with college students and professional mentors. Activities include, after school programs in conjunction with Boston Public Schools, summer camp programs, computer clubhouse activities at Northeastern University, and electronic mentoring programs.

More Information can be found at: <http://connections.coe.neu.edu>.



CONNECTIONS, A UNIVERSITY-WIDE INITIATIVE (continued)

Selected Program Dissemination Activities:[§] (archival & conference publications & presentations)

- [1] Reisberg, R., **Wadia-Fascetti, S.** (2003) "Connections: Strengthening Pathways for Women Studying Engineering" Abstract submitted (and accepted) to *American Society for Engineering Education 2004 Annual Conference*.
- [2] Reisberg, R., **Wadia-Fascetti, S.** (2003) "CONNECTIONS: A Focus on Career Preparation for Women in Engineering." *Proceedings of the 2003 American Society for Engineering Education Annual Conference & Exposition* Copyright © 2003, American Society for Engineering Education.
- [3] Campbell, P., **Wadia-Fascetti, S.**, Perlman, L., Mukerji, K. (2002) "To Be Confident or Not To Be Confident: An Engineering Student Evaluation." Abstract (#7058) submitted to the 13th Annual Conference of WEPAN 2002 Conference, *Engineering for All Women: Exploring Perspectives*, San Juan, Puerto Rico, June 8 - 11, 2002.
- [4] Mukerji, K., **Wadia-Fascetti, S.** (2002) "A College Course for Women Studying Engineering Taught by Professional Women," Abstract (#7053) submitted to the 13th Annual Conference of WEPAN 2002 Conference, *Engineering for All Women: Exploring Perspectives*, San Juan, Puerto Rico, June 8 - 11.
- [5] *An Overview of the Connections Program* (2002) a poster presentation prepared by K. Mukerji & S. **Wadia-Fascetti** proposed for exhibition at the 13th Annual Conference of WEPAN 2002, *Engineering for All Women: Exploring Perspectives*, San Juan, Puerto Rico, June 8 - 11, 2002.
- [6] *Connections Program Activities: 2000 - 2001*, Presented at the National Science Foundation Program for Gender Equity PI Meeting, October 2001. Presentations also made in Oct. 1999 & Oct. 2000.
- [7] Mukerji, K., **Wadia-Fascetti, S.** (In Review) *Professional Insight in the Classroom*, Submitted to the ASCE Journal of Professional Issues as a Teaching Lessons Learned feature article.
- [8] **Wadia-Fascetti, S.** (2000) "CONNECTIONS: A Working Partnership for the Next Generation of Women in Science, Technology, Engineering, and Mathematics (STEM)." Presented to the College of Engineering at the University of Rhode Island, April 5, 2000. An invited presentation.
- [9] **Wadia-Fascetti, S.** and Leventman, P. G. (2000) "E-Mentoring: A Longitudinal Approach to Mentoring Relationships for Females Pursuing Technical Careers," *American Society of Engineering Education (ASEE) Journal of Engineering Education*. **89**(3). pp. 295-300, July 2000.
- [10] *Connections Program* (1999) participation invited to the National Science Foundation Workshop for *Improving and Assessing the Impact of Programs to Encourage Girls to Pursue Science, Engineering, and Mathematics at Santa Clara University*. White paper by J. Hart and S. **Wadia-Fascetti**. August 1999. <http://www.scu.edu/SCU/Projects/NSFWorkshop99>.
- [11] *Introducing the Connections Program at Northeastern University* (1999) a poster presentation prepared by S. **Wadia-Fascetti** and J. Hart and exhibited at the **Women in Engineering Summit** sponsored by the National Academy of Engineering. Washington D. C., May 1999.
- [12] *Introducing the Connections Program at Northeastern University* (1999) a poster presentation presented by S. **Wadia-Fascetti** and J. Hart at the Northeastern University **Research and Scholarship Poster Session: Making Connections**. May 1999.
- [13] **Wadia-Fascetti, S.**, Cross[†], M., Leventman, P. (1998) *Northeastern University E-Mentoring Program*, at the Poster Session titled, "Connections: Making Civil Engineering a Realistic Career Option." 1998 American Society of Civil Engineers National Convention, October 20, Boston, MA.

Selected Program Accomplishments (1999 - 2002)

- Twenty-five entering freshmen women have received merit-based full tuition scholarships
- Retention rate for women at Northeastern from freshman to sophomore year rose to 93%
- 100 more women in the college of engineering compared to 5 years ago
- Regular use of the clubhouse by college women and after - school girl groups
- Research on student confidence at Northeastern University is ongoing
- A Career Management Course has been institutionalized as an elective course
- Institutionalization as evidenced by career course, dedicated space, scholarships, residence hall

[§] These items are also listed elsewhere in this CV and are repeated here for completeness of this section.