

# TRACY KAY CAMP

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## EDUCATION:

- Ph.D.** Computer Science, The College of William & Mary, Williamsburg, VA, Dec. 1993.
- M.S.** Computer Science, Michigan State University, Lansing, MI, Mar. 1989.
- B.A.** Mathematics, Kalamazoo College, Kalamazoo, MI, June 1987.

## EXPERIENCE:

- 2007 – present **Professor**, Colorado School of Mines. Graduate Faculty at University of Colorado, Boulder and Adjunct Faculty at University of Colorado, Denver since 2002. Toilers Director, since 1993. CARDI Associate Director, since 2003. SmartGeo Co-Director, since 2008. Interim Department Head, since 2011.
- Feb.–June 2006 **Fulbright Scholar**, Department of Computer Science and Software Engineering, University of Canterbury, Christchurch, New Zealand.
- 2000–2007 **Associate Professor**, Colorado School of Mines.
- 1998–2000 **Assistant Professor**, Colorado School of Mines.
- 1993–1998 **Assistant Professor**, The University of Alabama.
- 1991–1993 **Assistant System Administrator**, The College of William & Mary.
- 1989–1991 **Graduate Research Assistant**, The College of William & Mary.
- 1987–1989 **Graduate Teaching Assistant**, Michigan State University.
- 1984–1987 **Undergraduate Teaching Assistant**, Kalamazoo College.

## EXTERNAL GRANTS:

- T. Camp, “BPC: Let’s CONNECT”, National Science Foundation, #CNS-0940632, \$598,604, April 1st, 2010 through March 31st, 2013.
- T. Camp, “MobiCom Student Travel Grants”, National Science Foundation, #CNS-1046300 and #CNS-1043772, \$42,000, August 1st, 2010 through July 31st, 2011.
- T. Camp (PI), “Broader Impacts for Research and Discovery Summit”, National Science Foundation, #CNS-1033413, \$214,173, April 1st, 2010 through March 31st, 2012. (Collaborators J. Gilbert at Clemson University, J. Goldsmith at University of Kentucky, and S. Khuller at University of Maryland awarded \$296,432 for a total project award of \$510,605.)
- T. Camp, “NeTS: Medium: Collaborative Research: Cooperative Beamforming for Efficient and Secure Wireless Communication”, National Science Foundation, #CNS-0905513, \$150,000, September 1, 2009 through August 31st, 2013. (Collaborators Athina Petropulu at Drexel University, H. Vincent Poor at Princeton University, and Zhu Han at University of Houston awarded \$525,000 for a total project award of \$675,000.)

**EXTERNAL GRANTS cont.:**

- M. Mooney, T. Camp, E. Poeter, D. Hale, and L. Figueroa, “IGERT: Intelligent Geosystems”, National Science Foundation, #DGE-0801692, \$3,000,000, July 1st, 2008 through June 30th, 2013.
- T. Camp, “Practices Aggregation, Infrastructure, and Retrieval Service for Broadening Participation in Computing (PAIRS)”, National Science Foundation, #CNS-0634278, \$122,393, April 15, 2007 through March 31, 2011. (Collaborators L. Barker at University of Austin and A. Agogino at University of California-Berkeley awarded \$539,517 for a total project award of \$661,910.) Includes REU supplements received May 2008 and May 2009.
- T. Camp, “CONNECT: Creating Open Networks and Expanding Connections with Technology,” National Science Foundation, #CNS-0738102, \$84,395, Jan. 1st, 2008 through June 30th, 2010.
- T. Camp and W. Navidi, “Improving the Credibility of MANET Simulation Scenarios,” National Science Foundation, #CNS-0848130, \$69,668, Aug. 15th, 2008 through January 30th, 2010.
- T. Camp, D. Keyek-Franssen (CU-Boulder), W. Kuehner (University of Denver), “Inspiring AmbITion”, Microsoft Research through the National Center for Women in Information Technology, \$10,000, Sept 15, 2007 through Sept 14, 2008.
- T. Camp and M. Colagrosso (Senior Personnel). “ALLow Improved Access in the Network via Coordination and Energy Savings (ALLIANCES),” National Science Foundation #CNS-0435376, \$282,000. Sept 15th, 2004 through Aug. 31st, 2008. (Collaborator A. Petropulu at Drexel University awarded \$360,000, for a total project award of \$642,000.) Includes REU supplements received May 2005, May 2007, and May 2008.
- T. Camp. “Characterizing Protocol Interaction in NEWS: A Network Environment Wireless State Service,” National Science Foundation #ANI-0240558, \$288,676. June 1st, 2003 through May 31st, 2008. (Collaborator V. Syrotiuk at ASU awarded \$212,324, for a total project award of \$501,000.) Includes REU supplements received June 2004 and May 2005.
- T. Camp. “Reversing the Trends in Questionable Network Simulations and Acute Gender Imbalance”, Fulbright Scholarship to New Zealand, 2006.
- T. Camp. “Erskine Fellowship at the University of Canterbury, Christchurch, New Zealand,” 2006. Award offered but not accepted (because Fulbright Scholarship was received).
- T. Camp and M. Colagrosso. “Meetings for Networking of Sensor Systems at Colorado School of Mines,” National Science Foundation #CNS-0451431, \$69,976. October 1st, 2004 through September 30th, 2005.
- W. Navidi and T. Camp. “Adaptive Protocols for Mobile Ad Hoc Networks,” National Science Foundation #ANI-0208352, \$406,500. September 1st, 2002 through August 31st, 2006. Includes REU supplements received May 2003, July 2004, and May 2005.
- J. Impagliazzo, T. Camp, and D. Gurer, “Dissemination of the Inroads (SIGCSE Bulletin) Special Issue on Women and Computing,” National Science Foundation #EIA-0226221, \$35,880. August 1st, 2002 through July 31st, 2003.

**EXTERNAL GRANTS cont.:**

- T. Camp and W. Navidi. “Development of Geocasting Protocols for a MANET,” National Science Foundation #ANI-0073699, \$324,433. July 15th, 2000 through June 30th, 2005. Includes REU supplements received May 2001 and May 2002.
- T. Camp. “Graduate Student Internships,” A.T.&T. Broadband, \$20,000. August 2002–August 2003.
- T. Camp. “CASI Mentored Internship,” Colorado Advanced Software Institute, \$5,000. Jan.-June 2001.
- K. Miller, T. Camp, D. Johnson, and L. Smith King. “Teaching Computer Ethics with Workshops and the Web,” National Science Foundation #DUE-9952841, \$417,422. Jan. 1st, 2000 through May 1st, 2004. Includes supplement received Jan. 2001.
- T. Camp, “ALAMODE: A Laboratory at Mines Offering Distributed Environments,” National Science Foundation #DUE-9950910, \$90,427, Aug. 15, 1999 through Aug. 14, 2003.
- T. Camp, “**CAREER** Grant: Development of a Mobile Network Architecture (Mobi-Arch),” National Science Foundation #NCR-9702449 and #ANI-9996156, \$230,000. Aug. 16, 1997 through Aug. 15, 2002. Includes research supplement received Dec. 1998 and REU supplement received May 1999.
- D. Gurer and T. Camp, “Investigating the Incredible Shrinking Pipeline for Women in Computer Science,” National Science Foundation #EIA-9812016, \$67,495. Sept. 1, 1998 through Aug. 31, 2000.
- D. Brown, T. Camp, D. Cordes, and R. Pimmel, “Air Defense Advanced Technology Support,” U.S. Army Aviation and Missile Command (AMCOM), \$69,250. May 16, 1998 through Aug. 15, 1998.
- T. Camp, Collaborative Research Project, Equipment Grant, Sun Microsystems, \$29,270. Sept. 1997.
- T. Camp and W. Aspray (Computing Research Association), “Support for 75 Travel Grants to attend the Grace Hopper Celebration of Women in Computing Conference,” National Science Foundation #CDA-9707894, \$56,000. May 15, 1997 through May 14, 1998.
- A. Borg (Digital Equipment Corporation) and T. Camp, “Support for 85 Travel Grants to attend the Grace Hopper Celebration of Women in Computing Conference,” \$70,000 from Intel Foundation, USENIX Organization, AAAI, Quantum Corp., and Oracle Corp., May 15, 1997 through May 14, 1998.
- T. Camp, “Implementation of Fast Data Transfer with Global Flush Broadcasts,” National Science Foundation #NCR-9523815, \$17,369. July 15th, 1996 through July 14th, 1997.

**INTERNAL GRANTS:**

- M. Colagrosso, B. Whalen, and T. Camp. “Enhancing the MCS Curriculum through Wireless Sensor Networks,” CSM Technology Fee, \$12,400. Spring 2005.
- T. Camp and M. Robbert, “Providing Wireless Access in the MCS Department,” CSM Technology Fee, \$4,000. Spring 2002.

**INTERNAL GRANTS cont.:**

- T. Camp, and L. Becker, “ALAMODE: A Laboratory at Mines Offering Distributed Environments,” CSM Technology Fee, \$7,500. Spring 2000.
- D. Smith, T. Camp, and E. Van Vleck, “Upgrading Networking in the Math. and Computer Sciences Department for the 21st Century,” CSM Technology Fee, \$10,000. Spring 1999.
- T. Camp, “Reducing Power Consumption of Mobile Hosts,” Research Grants Committee, \$4,000. University of Alabama, Summer 1997.
- T. Camp, “Fast Data Transfer: A Practical Implementation,” Research Grants Committee, \$4,000. University of Alabama, Summer 1995.

**EDITOR OF SPECIAL ISSUE:**

E-1. T. Camp, Guest Editor of Special Issue, “Women and Computers”, *Inroads: ACM SIGCSE journal*, vol. 34, no. 2, June 2002. Message from Guest Editor: pp. 6–8. This special issue consists of nine editorials, 21 invited papers (which were thoroughly reviewed and revised), eight reprints, and several peripherals. The issue is approximately 200 pages and involved 53 invited authors. International authors invited were from Deakin University in Australia, Central Queensland University in Australia, University of British Columbia in Canada, University of East London in England, and University of Witwatersrand in South Africa. Because of the success of this special issue (over 22,503 copies were distributed around the world), T. Camp assisted ACM and SIGCSE to create a CD, called “Pathways: Women and Computing”, that includes several special issues on women and computing.

**INVITED BOOK CHAPTERS:**

- B-1. T. Camp, “Location Information Services in Mobile Ad Hoc Networks”, Chapter 14 in *Handbook of Algorithms for Mobile and Wireless Networking and Computing*, (editor A. Boukerche), pp. 317–339, 2005.
- B-2. B. Bynum and T. Camp, “BACI: The Ben-Ari Concurrent Programming System,” Appendix E in *Operating Systems Internals and Design Principles: Fifth Edition*, by W. Stallings, pp. 772–784, Prentice Hall, 2005. Updated version of a chapter in the Third (1998) and Fourth (2001) Editions.

**REFEREED JOURNAL PUBLICATIONS (students/post-docs underlined):**

Acceptance rates of journals are given when known.

- RJ-1. S. Kurkowski, W. Navidi, T. Camp, and J. Norman, “Constructing Rigorous MANET Simulation Scenarios,” *Ad Hoc & Sensor Wireless Networks*, to appear 2011.
- RJ-2. N. Aschenbruck, A. Munjal, and T. Camp, “Trace-based Mobility Modeling for Multi-hop Wireless Networks,” *Computer Communications*, 34(6), pp. 704–714, May 2011.
- RJ-3. A. Munjal, T. Camp, and W. Navidi, SMOOTH: A Simple Way To Model Human Walks, *Mobile Computing and Communications Review*, vol. 14, no. 4, pp. 34-36, October 2010. (Poster Abstract)

**REFEREED JOURNAL PUBLICATIONS (students/post-docs underlined) cont.:**

- RJ-4. X. Yang, T. Camp, H. Yang, and A. Petropulu, “Extending network lifetime for ALLIANCES”, , *Computer Communications*, vol. 32, pp. 1837-1851, 2009.
- RJ-5. S. Kurkowski, T. Camp, and M. Colagrosso, “A Visualization and Analysis Tool for Wireless Simulations: iNSpect”, *ACM’s Mobile Computing and Communications Review*, to appear, 2009.
- RJ-6. H. Yang, A. Petropulu, X. Yang, and T. Camp, “A Novel Location Relay Selection Scheme for ALLIANCES,” *IEEE Transactions on Vehicular Technology*, 57(2):1272-1284, 2008.
- RJ-7. C. Walsh, A. Doci, and T. Camp, “A Call to Arms: It’s Time for REAL Mobility Models”, *ACM’s Mobile Computing and Communications Review*, vol. 12, no. 1, pp. 34-36, 2008. (Poster Abstract)
- RJ-8. T. Camp and P. Kearns, “Fast Batched Data Transfer with Flush Channels: A Performance Analysis,” *Journal of Parallel and Distributed Computing*, vol. 66, no. 6, pp. 780–795, June 2006.
- RJ-9. S. Kurkowski, T. Camp, and M. Colagrosso, “MANET Simulation Studies: The Incredible”, *ACM’s Mobile Computing and Communications Review*, vol. 9, no. 4, pp. 50–61, October 2005. **19% acceptance ratio:** Only 19% of the submitted papers to MC2R from Jan. 2005 to Sept. 2006 were accepted.
- RJ-10. N. Bauer, M. Colagrosso, and T. Camp, “Efficient Implementations of All-to-All Broadcasting in Mobile Ad Hoc Networks”, *Pervasive and Mobile Computing*, vol. 1, no. 3, pp. 311–342, September 2005.
- RJ-11. B. Williams, D. Mehta, T. Camp, and W. Navidi, “Predictive Models to Rebroadcast in Mobile Ad Hoc Networks”, *IEEE Transactions on Mobile Computing*, vol. 3, no. 3. pp. 295–303, July 2004.
- RJ-12. W. Navidi and T. Camp, “Stationary Distributions for the Random Waypoint Mobility Model”, *IEEE Transactions on Mobile Computing*, vol. 3, no. 1, pp. 99–108, January-March 2004.
- RJ-13. T. Camp and Y. Liu, “An Adaptive Mesh-based Protocol for Geocast Routing” *Journal of Parallel and Distributed Computing (JPDC): Special Issue on Routing in Mobile and Wireless Ad Hoc Networks*, vol. 62, no. 2, pp. 196–213, February 2003.
- RJ-14. T. Camp, J. Boleng, and V. Davies, “A Survey of Mobility Models for Ad Hoc Network Research”, *Wireless Communications & Mobile Computing (WCMC): Special issue on Mobile Ad Hoc Networking: Research, Trends and Applications*, vol. 2, no. 5, pp. 483–502, August 2002. **19% acceptance ratio:** Only 19% of the submitted papers to this special issue were accepted.
- RJ-15. R. Hutchins, T. Camp, and P. Enslow, “A Novel Approach to Mobility Management,” *ACM Computer Communications Review*, vol. 29, no. 1, pp. 86–96, 1999.
- RJ-16. T. Camp, J. Lusth, and J. Matocha, “Locating Group Members in a Mobile Environment,” *Information Sciences*, vol. 100, pp. 51–62, 1997.
- RJ-17. S. Burdette, T. Camp, and B. Bynum, “Distributed BACI: A Toolkit for Distributed Applications,” *Concurrency: Practice and Experience*, vol. 12, pp. 35–52, 2000.
- RJ-18. S. Tomic, S. Vrbsky, and T. Camp, “A New Measure of Temporal Consistency for Derived Objects in Real-time Database Systems,” *Information Sciences*, vol. 124, pp. 139–152, 2000.

**REFEREED JOURNAL PUBLICATIONS (students underlined) cont.:**

- RJ-19. I. Terekhov and T. Camp, “Time Efficient Deadlock Resolution Algorithms,” *Information Processing Letters*, vol. 69, pp. 149–154, 1999.
- RJ-20. J. Matocha and T. Camp, “A Taxonomy of Distributed Termination Detection Algorithms,” *The Journal of Systems and Software*, vol. 43, no. 3, pp. 207–221, 1998.
- RJ-21. T. Camp, P. Kearns, and M. Ahuja, “Proof Rules for Flush Channels,” *IEEE Transactions on Software Engineering*, vol. 19, no. 4, pp. 366–378, 1993.
- RJ-22. T. Camp, “CS Programs in Engineering Colleges = Fewer Females,” *Journal of Women and Minorities in Science and Engineering*, vol. 4, no. 1, pp. 15–25, 1998.
- RJ-23. T. Camp, “The Incredible Shrinking Pipeline,” *Communications of the ACM*, vol. 40, no. 10, pp. 103–110, 1997. Re-published in *Inroads: SIGCSE journal*, vol. 33, no. 2, June 2002.
- RJ-24. A. Parrish, D. Cordes, S. Vrbsky, T. Camp, C. Fortner, and G. Scales, “Assessing Computing Knowledge Among College Students,” *Journal of Computer Science Education*, vol. 10, no. 3, pp. 9–14, 1996.

**REFEREED CONFERENCE PUBLICATIONS (students/post-docs underlined):**

**Acceptance rates of conferences are given when known.**

- RC-1. A. Munjal, T. Camp, and W. Navidi “SMOOTH: A Simple Way To Model Human Walks,” *Proceedings of the 14th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM)* 10 pages, 2011. **32% acceptance ratio.**
- RC-2. K. Stone, C. Oden, B. Hoenes, and T. Camp, “Hardware for Wireless Geophysical Monitoring,” *Proceedings of the IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)* 8 pages, 2011. **32% acceptance ratio.**
- RC-3. B. Vargo, C. Rader, and T. Camp, “Encouraging Participation in Computer Science with CONNECT”, *Proceedings of the 2011 Frontiers in Education Conference*, 6 pages, 2011.
- RC-4. K. Stone and T. Camp, “The Ins and Outs of Distance-based WSN Localization Schemes,” *Proceedings of the 2011 International Conference on Wireless Networks (ICWN)*, 7 pages, 2011. **22% acceptance ratio.**
- RC-5. C. Metcalfe, T. Camp, M. Colagrosso, and O. Chase, “TestbedProfiler: A Validation Tool for Wireless Sensor Network Testbed Deployment,” *Proceedings of the 35th IEEE Conference on Local Computer Networks (LCN)*, 4 pages, 2010.
- RC-6. K. Stone, D. Hakkarinen, and T. Camp, “Listening to Everyone’s Voice Enhances Learning (LEVEL),” *Proceedings of the 35th IEEE Conference on Local Computer Networks (LCN)*, 4 pages, 2010.
- RC-7. K. Stone, B. Hoenes, and T. Camp, Hardware for Continuous Wireless Geophysical Monitoring of Dams and Levees, *Proceedings of the 2nd Colorado Celebration of Women in Computing (CCWIC)*, 6 pages, 2010.
- RC-8. A. Munjal, T. Camp, and W. Navidi, “Constructing Rigorous MANET Simulation Scenarios with Realistic Mobility,” *Proceedings of the European Wireless 2010 (EW)*, 8 pages, 2010.

**REFEREED CONFERENCE PUBLICATIONS (students underlined) cont.:**

- RC-9. X. Yang and T. Camp, “A-MAC: Efficient Medium Access for Cluster-based Wireless Sensor Networks,” *Proceedings of the 28th International Performance Computing and Communications Conference (IPCCC)*, 10 pages, 2009. **26.1% acceptance ratio.**
- RC-10. X. Yang and T. Camp, “An Energy-Aware Relay Selection Scheme for ALLIANCES,” *Proceedings of the IEEE PerCom International Workshop on Pervasive Wireless Networking*, 7 pages, 2009.
- RC-11. S. Kurkowski, W. Navidi, and T. Camp, “Constructing MANET Simulation Scenarios That Meet Standards”, *Proceedings of the 3rd IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, pp. 1–9, 2007. **25.3% acceptance ratio.**
- RC-12. X. Yang, E. Krohne, and T. Camp, “Performance Evaluation of ALLIANCES”, *Proceedings of the ACM Grace Hopper Celebration of Women in Computing*, CD proceedings (six pages), 2007.
- RC-13. S. Kurkowski, W. Navidi, and T. Camp, “Discovering Variables that Affect MANET Protocol Performance”, *Proceedings of the 50th IEEE Global Telecommunications Conference (GLOBECOM)*, pp. 1237–1242, 2007. **38% acceptance ratio.**
- RC-14. S. Kurkowski, T. Camp, and W. Navidi, “Two Standards for Rigorous MANET Routing Protocol Evaluation”, *Proceedings of the 3rd IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)*, pp. 256–266, 2006. **24.8% acceptance ratio.**
- RC-15. J. Powell and T. Camp, “Improving Location Services with Prediction”, *Proceedings of the International Conference on Wireless Networks (ICWN '06)*, pp. 153–159, 2006.
- RC-16. S. Kurkowski, T. Camp, N. Mushell, and M. Colagrosso, “A Visualization and Analysis Tool for NS-2 Wireless Simulations: iNSpect”, *Proceedings of the 13th IEEE International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)*, pp. 503–506, 2005.
- RC-17. N. Bauer, M. Colagrosso, and T. Camp, “An Agile Approach to Distributed Information Dissemination in Mobile Ad Hoc Networks”, *Proceedings of the 6th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, pp. 131–141, 2005. Accepted as an extended paper (i.e., **top 10%** of the papers submitted were accepted as extended papers).
- RC-18. X. Luo, T. Camp, and W. Navidi, “Predictive Methods for Location Services in Mobile Ad Hoc Networks”, *Proceedings of the 5th IEEE International Workshop on Algorithms for Wireless, Mobile, Ad Hoc and Sensor Networks (WMAN)*, pp. 246–251, 2005.
- RC-19. J. Vashishtha, T. Camp, and A. Sinha, “A Smart Utilization MAC (SU-MAC) Protocol with Power Control for Ad-Hoc Wireless Networks”, *Proceedings of the Performance, Quality of Service, and Control of Next-Generation Communication and Sensor Networks*, vol. 6011, 10 pages, 2005.
- RC-20. P. Yao, E. Krohne, and T. Camp, “Performance Comparison of Geocast Routing Protocols for a MANET”, *Proceedings of the 13th IEEE International Conference on Computer Communications and Networks (IC3N '04)*, pp. 213–220, 2004. **40% acceptance ratio.**
- RC-21. M. Colagrosso, N. Enochs, and T. Camp, “Improvements to Location-Aided Routing through Directional Count Restrictions”, *Proceedings of the International Conference on Wireless Networks (ICWN '04)*, pp. 924–929, 2004. **34% acceptance ratio.**

**REFEREED CONFERENCE PUBLICATIONS (students underlined) cont.:**

- RC-22. P. Yao, E. Krohne, and T. Camp, “Evaluation of Geocasting Protocols for a Mobile Ad Hoc Network”, *Proceedings of the Grace Hopper Celebration (GHC '04)*, CD proceedings (6 pages), 2004.
- RC-23. J. Boleng and T. Camp, “Adaptive Location Aided Mobile Ad Hoc Network Routing”, *Proceedings of the 23rd IEEE International Performance, Computing, and Communications Conference (IPCCC)*, pp. 423–432, 2004. **28% acceptance ratio.**
- RC-24. W. Navidi and T. Camp, “Predicting Node Location in a PCS Network”, *Proceedings of the 23rd IEEE International Performance, Computing, and Communications Conference (IPCCC)*, pp. 165–170, 2004.
- RC-25. X. Jiang and T. Camp, “An Information Dissemination Protocol for an Ad Hoc Network”, *Proceedings of the 23rd IEEE International Performance, Computing, and Communications Conference (IPCCC)*, pp. 337–345, 2004. **28% acceptance ratio.**
- RC-26. W. Navidi, T. Camp, and N. Bauer, “Improving the Accuracy of Random Way-point Simulations Through Steady-State Initialization”, *Proceedings of the 15th International Conference on Modeling and Simulation (MS)*, pp. 319–326, March 2004.
- RC-27. B. Moskal, L. King, K. Miller, and T. Camp, “Preparing to Teach Computer Ethics: Results from the DOLCE Project”, *Proceedings of the 2003 Annual Meeting of the American Society for Engineering Education (ASEE)*, 13 pages, 2003.
- RC-28. B. Williams and T. Camp “Comparison of Broadcasting Techniques for Mobile Ad Hoc Networks”, *Proceedings of the ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc '02)*, pp. 194–205, 2002. **16.4% acceptance ratio.**
- RC-29. T. Camp, J. Boleng, B. Williams, L. Wilcox, and W. Navidi, “Performance Comparison of Two Location Based Routing Protocols for Ad Hoc Networks”, *Proceedings of the 21st Annual Joint Conference of the IEEE Computer and Communications Societies (Infocom '02)*, pp. 1678–1687, 2002. **20.5% acceptance ratio.**
- RC-30. T. Camp, J. Boleng, and L. Wilcox, “Location Information Services in Mobile Ad Hoc Networks”, *Proceedings of the IEEE International Conference on Communications (ICC '02)*, pp. 3318–3324, 2002. **40.8% acceptance ratio.**
- RC-31. J. Boleng, W. Navidi, and T. Camp, “Metrics to Enable Adaptive Protocols for Mobile Ad Hoc Networks” *The 2002 International Conference on Wireless Networks (ICWN '02)*, pp. 293–298, 2002.
- RC-32. N. K. Guba and T. Camp, “Recent Work on GLS: a Location Service for an Ad Hoc Network”, *Proceedings of the Grace Hopper Celebration (GHC '02)*, CD proceedings (5 pages), 2002.
- RC-33. X. Jiang and T. Camp, “Review of Geocasting Protocols for a Mobile Ad Hoc Network”, *Proceedings of the Grace Hopper Celebration (GHC '02)*, CD proceedings (6 pages), 2002.
- RC-34. J. Boleng, T. Camp, and V. Tolety. “Mesh-based Geocast Routing Protocols in an Ad Hoc Network,” *Proceedings of the 15th IEEE International Parallel and Distributed Processing Symposium on Issues in Wireless Networks and Mobile Computing (IPDPS 2001)*, pp. 184–193, 2001.
- RC-35. B. Williams, J. Boleng, and T. Camp, “Geocast Communications in an Ad Hoc Network”, *Proceedings of the 11th IEEE Local and Metropolitan Area Networks Workshop (LANMAN 2001)*, pp. 94–97, 2001.

**REFEREED CONFERENCE PUBLICATIONS (students underlined) cont.:**

- RC-36. J. Boleng, B. Williams, T. Camp, L. Wilcox, and W. Navidi, "Performance of Location-Based Routing Protocols for an Ad Hoc Network", *Proceedings of the 11th IEEE Local and Metropolitan Area Networks Workshop (LANMAN 2001)*, pp. 98–101, 2001.
- RC-37. T. Camp, J. Lusth, J. Matocha, and C. Perkins. "Reduced Cell Switching in a Mobile Computing Environment," *Proceedings of the Sixth Annual ACM International Conference on Mobile Computing and Networking (MobiCom 2000)*, pp. 143–154, 2000. **12.3% acceptance ratio.**
- RC-38. A. Kumar and T. Camp. "A New Matching Algorithm for Managing Location Information in Mobile Computing," *Proceedings of the 19th IEEE International Performance, Computing, and Communications Conference (IPCCC 2000)*, pp. 231–239, Feb. 2000.
- RC-39. Y. Sun, T. Camp, and I. Terekhov, "Multicast Communication for Mobile Nodes Based on an Efficient Location Management Technique," *Proceedings of the International Workshop on Group Communication (IWGC 1999)*, Fukushima, Japan, pp. 10–16, Sept. 1999.
- RC-40. T. Camp and D. Gurer, "Women in Computer Science: Where Have We Been and Where are We Going?," *Proceedings of the 1999 International Symposium on Technology and Society (ISTAS '99)*, pp. 242–244, 1999.
- RC-41. D. Gurer and T. Camp, "Women and Technology: Why are we Losing so Many Women in Computer Science?," *Proceedings of Women Transforming the Public*, 1999.
- RC-42. J. Matocha, T. Camp, and R. Hooper, "Extended Analogy: An Alternative Lecture Method," *Proceedings of the 29th ACM SIGCSE Technical Symposium on Computer Science Education*, pp. 262–266, Mar. 1998. **36% acceptance ratio.**
- RC-43. T. Camp, "Survey Says! Results from the Incredible Shrinking Pipeline," *Proceedings of the ACM Policy Conference*, on-line proceedings, 1998.
- RC-44. S. Tomic and T. Camp, "I want it all and I want it now! Data Retrieval in a Distributed Multimedia Database System," *Proceedings of the The 35th ACM Annual Southeast Conference*, pp. 251–256, Apr. 1997.
- RC-45. B. Bynum and T. Camp, "After you, Alfonse: A Mutual Exclusion Toolkit," *Proceedings of the 27th SIGCSE Technical Symposium on Computer Science Education*, pp. 170–174, Feb. 1996. **33% acceptance ratio.**
- RC-46. T. Li and T. Camp, "The Web, Browsers and Internationalization," *Proceedings of the 34th ACM Southeast Conference*, pp. 43–48, Mar. 1996.
- RC-47. T. Camp and G. Oberhauser, "Microkernels: A Submodule for a Traditional Operating Systems Course," *Proceedings of the 26th ACM SIGCSE Technical Symposium on Computer Science Education*, pp. 154–158, Mar. 1995. **33% acceptance ratio.**
- RC-48. A. Parrish, D. Cordes, S. Vrbsky, T. Camp, C. Fortner, and G. Scales, "Assessing Computing Knowledge Among College Students," *Proceedings of the 1995 National Educational Computing Conference (NECC '95)*, pp. 52–59, 1995.)
- RC-49. P. Kearns, T. Camp, and M. Ahuja, "An Implementation of Flush Channels Based on a Verification Methodology," *Proceedings of the 12th IEEE International Conf. on Distributed Computing Systems (ICDCS '92)*, pp. 336–343, June 1992. **28% acceptance ratio.**

#### **OTHER INVITED CONTRIBUTIONS:**

- I-1. T. Camp and J. Gilbert, Broader Impacts - Should You Care?, *Computing Research News*, vol. 22, no. 5, 2010.
- I-2. T. Camp and W. Heinzelman, "Networking Networking Women", *Computing Research News*, pp. 2-3, November 2007.
- I-3. D. Gurer and T. Camp, "An ACM-W Literature Review on Women in Computing", *Inroads: ACM SIGCSE Journal*, vol. 34, no. 2, pp. 121–127, June 2002.
- I-4. T. Camp, "Women in Computer Sciences: Reversing the Trend", *Syllabus*, vol. 15, no. 1, pp. 24–28, Aug. 2001.
- I-5. V. Davies and T. Camp, "Where Have Women Gone and Will They Be Returning", *Computer Professionals for Social Responsibility Newsletter*, vol. 18, no. 1, Winter 2000.
- I-6. D. Gurer, T. Camp, and B. Simons, "Increasing the Number of Women in Computing: Goals and Activities of ACM-W," in *The Resource Book of the Summit on Women in Engineering*, pp. 1–4, National Academy of Engineering, May 17–18, 1999.
- I-7. T. Camp, "A Decade in the University Pipeline," *Computing Research News*, vol. 9, no. 3, pp. 2–3, May 1997.
- I-8. T. Camp, "Diversity Recruiting," *Communications of the ACM*, vol. 38, no. 1, p. 61, 1995.

#### **DIVERSITY COLUMNS:**

- DC-1. D. Augustine, T. Camp, D. Martin, and C. Wardle, "The Silicon Ceiling: Gender Barriers in the Computer Science Profession in Germany and the USA," *1999 International Symposium on Technology and Society (ISTAS'99)*, pp. 347–356, 1999.
- DC-2. T. Camp, "Women and Computers: The Past to the Future," *Proceedings of the ACM Computer Science Conference*, pp. 154–155, 1996.
- DC-3. T. Camp, "Keeping Girls Interested in Computing," *Proceedings of the National Education Computing Conference*, p. 10, 1995.

#### **IMPACT OF PAPERS:**

As of June 2008, Dr. Camp's articles have been cited over 2,500 times (per Google Scholar).

As of December 2008, Dr. Camp's h-index (Hirsch number) is 16; in other words, Dr. Camp had 16 articles with 16 or more citations in December 2008.

Dr. Camp's articles described 14 software packages that have been requested from (and shared with) more than 2,000 researchers in 73 countries/regions (as of June 2010).

## HONORS AND AWARDS:

- Distinguished Visitor, University of Bonn, Germany, July 2010.
- Co-Chair of the NSF CISE Broader Impact Summit, June 2010.
- Computer Science Outstanding Undergraduate Faculty Award, May 2010.
- Keynote Speaker at the 3rd International Conference on Simulation Tools and Techniques (SIMUTools), Malaga, Spain, March 2010.
- Received \$44,000 in donations from Microsoft Research, Google, LGS Innovations, Cisco, Anita Borg Institute, Ball Aerospace, Fast Enterprises, Intel, ReadyTalk, NREL, NCAR, ArcelorMittal, and Kerpoof Disney to support the 2nd Colorado Celebration of Women in Computing (CCWIC), 2010.
- Received \$23,800 in donation from Microsoft Research, HP Labs, and SIGMOBILE to support Networking Networking Women (N<sup>2</sup>Women), 2007-2010.
- Keynote Speaker at the STARS Celebration, Tallahassee, Florida, August 2009.
- Invited to join the Steering Committee for CRA’s Committee on the Status of Women in Computing Research (CRA-W), 2009.
- Keynote Speaker at the Ohio Celebration of Women in Computing, Perrysville, Ohio, February 2009.
- Received \$37,000 in donations from Google, Sun Microsystems, Microsoft Research, LGS Innovations, Accenture, VMWare, Cisco, Ball Aerospace, Anita Borg Institute, National Center for Women and IT, HP, and NCAR to support Colorado Celebration of Women in Computing (CCWIC), 2008.
- Received Board of Trustees Outstanding Faculty Award at the Colorado School of Mines, in December 2007; this award was only given five times between 1998-2007.
- Invited to join the Board for CRA’s Committee on the Status of Women in Computing Research (CRA-W), 2007.
- Undergraduate research student (C. Walsh) won a travel award to present his research in the Student Research Competition at the ACM International Conference on Mobile Computing and Networking (MobiCom), 2007.
- Invited to co-lead the Models, Testbeds, and Standards Group at the NSF Mobility in Wireless Networks Workshop, 2007.
- Selected as an ACM Distinguished Scientist (October 2006). Only 24 people (11 in industry and 13 in academics) were selected to be an ACM Distinguished Scientist in 2006.
- Two undergraduate research students (E. Krohne and J. Powell) won travel awards to present their research in the Student Research Competition at the ACM International Conference on Mobile Computing and Networking (MobiCom), 2006.
- Keynote Speaker at the 2006 Australian Women in IT Conference.
- Invited to be an ACM Distinguished Lecturer (August 2006).
- Awarded IEEE Senior Member status (July 2006).
- Received \$3,000 in donations to support the ACM-W Student Chapter at Colorado School of Mines, Google, Inc. and Avanade, Inc., 2006.

#### HONORS AND AWARDS cont.:

- Awarded a Fulbright Scholarship to New Zealand, 2006. (The acceptance rate of Fulbright proposals for New Zealand is typically under 10%.) Offered an Erskine Fellowship, University of Canterbury, 2005. (Award not accepted because of the Fulbright Scholarship received.)
- Elected Treasurer of the SIGMOBILE Executive Committee by the SIGMOBILE Community, 2005-2009. (SIGMOBILE is the ACM Special Interest Group on Mobile Computing, an international research association.)
- Invited and attended the U.S. Frontiers of Engineering Symposium, organized by the National Academy of Engineering, 2005. The National Academy of Engineering community nominated 380 people, of which 75 were invited to attend the symposium.
- Invited and attended a National Science Foundation and European Science Foundation workshop on Smart Structures and Advanced Sensor Technologies, Greece, 2005.
- Received \$36,000 in donations from ACM Council, SIGCOMM, SIGDA, SIGCSE, and ACM-W to distribute the special issue on “Women and Computers”, *Inroads: ACM SIGCSE journal*, vol. 34, no. 2, June 2002. T. Camp is the Guest Editor. In total, 22,503 copies have been distributed worldwide.
- ACM-W (ACM’s Committee on Women in Computing) Co-Chair, 1998-2002.
- Received ASA Outstanding Faculty Award, Colorado School of Mines, 1998-99.
- Received National Science Foundation CAREER Award, 1997.
- Received Patricia Roberts Harris Fellowship, The College of William & Mary, 1992.
- Received Graduate Office Fellowship, Michigan State University, 1988.

#### PRESS: QUOTED OR DISCUSSED:

- *Computerworld*: Feb. 18th, 2002
- *San Jose Mercury News*: Feb. 12th, 2002
- *Carnegie Mellon Magazine*: Spring 2001
- *San Diego Union-Tribune*: Sept. 2000
- *N.Y. Times*: July 27th, 2000
- *Wired News*: Apr. 20th, 2000
- *Boston Software News*: Mar. 1999
- *Scientific American*: Aug. 1998
- *Network World*: Oct. 13th, 1997
- *Colorado Women’s Magazine*: Feb. 2002
- *Business First*: Dec. 7th, 2001
- *The News Tribune*: Jan. 22nd, 2001
- *Chicago Tribune*: July 31st, 2000
- *Press Journal*: March 20th, 2000
- *Sm@rt Reseller*: Jan. 21st, 2000
- *Hartford Courant*: Sept. 27th, 1998
- *Silicon India*: Mar. 1998
- *Lockheed Martin Newsletter*: Dec. 1997
- *Graduating Engineer & Computer Careers Magazine*: Oct. 1999
- *Rocky Mountain News*: Dec. 21st, 2007, Apr. 19th, 1999 and Dec. 27th, 1998

#### PRESS: CONTACTED FOR INFORMATION

- *Discovery*: Dec. 2000
- *Dallas News*: Oct. 1999
- *Service News*: May 1999
- *Washington Post*: Oct. 1998
- *L.A. Times*: Aug. 1998
- *Ms. Magazine*: Sept. 1997
- *Wired Magazine*: Oct. 1997
- *N.Y. Times*: Nov. 1997

## SOFTWARE PACKAGES DISTRIBUTED:

- S-1. RealMobGen Mobility Model: software requested from and shared with **29 researchers in 17 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in the *ACM's Mobile Computing and Communications Review*, 2008.
- S-2. The iNSpect Visualization Tool: software requested from and shared with **543 researchers in 55 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in the *Proceedings of the IEEE International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)*, 2005.
- S-3. Legend Traversal Protocols: software requested from and shared with **11 researchers in 7 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in the *Proceedings of the IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, 2005.
- S-4. Proactive Disjoint Multipath Routing Protocol: software requested from and shared with **13 researchers in 9 countries** (as of Dec. 2009). For further details, see "An Evaluation of Multiple Path Routing and its Impact on Quality of Service in Mobile Ad Hoc Networks", M.S. Thesis, Colorado School of Mines, 2005.
- S-5. Steady State Random Waypoint Mobility Model: software requested from and shared with **126 researchers in 35 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in the *IEEE Transactions on Mobile Computing (TMC)*, 2004.
- S-6. Feedback Protocol: software requested from and shared with **36 researchers in 15 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in the *Proceedings of the 23rd IEEE International Performance, Computing, and Communications Conference (IPCCC)*, 2004.
- S-7. Geocast Routing Protocols: software requested from and shared with **36 researchers in 19 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in the *Proceedings of the 13th IEEE International Conference on Computer Communications and Networks (IC3N)*, 2004.
- S-8. Adaptive Mesh Based Geocast Protocol: software requested from and shared with **21 researchers in 13 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in *Journal of Parallel and Distributed Computing (JPDC): Special Issue on Routing in Mobile and Wireless Ad Hoc Networks*, 2003.
- S-9. Mobility Models: requested from and shared with **308 researchers in 48 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in the *Wireless Communications & Mobile Computing (WCMC): Special issue on Mobile Ad Hoc Networking: Research, Trends and Applications*, 2002.
- S-10. Location Based Routing Protocols: requested from and shared with **179 researchers in 33 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in the *Proceedings of the 21st Annual Joint Conference of the IEEE Computer and Communications Societies (INFOCOM)*, 2002.
- S-11. Broadcast Protocols: software requested from and shared with **124 researchers in 26 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in the *Proceedings of the ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)*, 2002.

#### **SOFTWARE PACKAGES DISTRIBUTED cont.:**

- S-12. Location Service Protocols: software requested from and shared with **30 researchers in 12 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in *Proceedings of the IEEE International Conference on Communications (ICC)*, 2002.
- S-13. Mesh-Based Geocast Routing Protocol: software requested from and shared with **20 researchers in 14 countries** (as of Dec. 2009). For further details, see Dr. Camp's article published in *Proceedings of the 15th IEEE International Parallel and Distributed Processing Symposium on Issues in Wireless Networks and Mobile Computing (IPDPS)*, 2001.
- S-14. The BACI Toolkit: software is in use (or has been used) at more than **60 universities in 25 countries** (as of June 2007). For further details, see Dr. Camp's article published in the *Proceedings of the 27th SIGCSE Technical Symposium on Computer Science Education (SIGCSE)*, 1996.

#### **STUDENTS SUPERVISED:**

**NOTE:** Between 2000-2006, T. Camp was the advisor of approximately 40% of all the thesis-based degrees awarded in Computer Science at the Colorado School of Mines.

##### **Ph.D. Students:**

- Doug Hakkarinen (current).
- Brian Hoenes (current).
- Aarti Munjal (current).
- Marc Rubin (current).
- Kerri Stone (current).
- Jyoti Vashishtha (current, part-time).
- Xinhua Yang (2010).
- Stuart Kurkowski (2006).
- Jeff Boleng (2002).
- Jeff Matocha (1998).

##### **M.S. Thesis Students:**

- C. Walsh (2011).
- E. Krohne (2008).
- C. Metcalf (2007).
- G. Gerou (2005).
- N. Bauer (2004, co-advise with Mike Colagrosso).
- X. Luo (2004, co-advise with William Navidi).
- B. Williams (2002).
- R. Spinhirne (2002, co-advise with Tyrone Vincent).
- V. Davies (2001).
- Y. Liu (2001).
- V. Tolety (2000).
- Y. Sun (1999).
- I. Terekhov (1998).
- U. Boddeti (1997).
- S. Burdette (1997).

**STUDENTS SUPERVISED cont.:**

**M.S. Project Students (3 credit hours):**

- F. Sun (2004).
- X. Jiang (2003).
- P. Yao (2002).
- S. Fulmer (1999).
- J. Smith (1999).
- S. Won (1999).
- G. Xu (1999).
- V. Belde (1998).
- W. Sun (1998).
- T. Li (1997).
- S. Tomic (1997).
- V. Gibson (1996).
- P. Bhargava (1995).

**- Current REU/Undergraduate Research Students:**

- Amanreet Bajwa
- Josh French
- Nicholas Gerstle
- Caitlin Hurley
- Ian Littman
- Taylor Wacker

- Past REU/Undergraduate Research students:** C. Albinana (B.S., 1999), K. Anderson (B.S., 2008), A. Bacon (B.S., 1995), M. Barkmeier (B.S., 2009), N. Bauer (B.S., 2002), M. Berman (B.S., 2008), A. Bivens (B.S., 1997), C. Brady (B.S. 2007), O. Chase (B.S. 2011), M. Crabb (B.S., 2000), V. Davies (B.S., 1999), J. Dennis (B.S., 2010), J. Dubois (B.S., 2004), N. Enochs (B.S., 2004), S. Fehr (B.S., 2006), F. Guest (B.S., 2002), T. Hansen (B.S., 2010), L. Hoppenwaser (B.S., 1998), D. Jacinto (B.S., 2011), C. Jones (B.S., 1996), K. Jones (B.S., 1997), E. Krohne (B.S., 2006), C. Marshal (B.S., 1994), R. Martin (B.S., 2006), P. Milvich, E. Morales (B.S., 2003), J. Morin (B.S., 2010), T. Mushell (B.S., 2005), M. Noring (B.S., 2010), J. Normand (B.S., 2008), A. Osecky (B.S., 2010), M. Pinner (B.S., 2002), G. Scheid (B.S., 2010), J. Schmick (B.S., 2009), C. Seils (B.S., 2004), D. Stockton (B.S., 2000), R. Storey (B.S., 1996), K. Strovink (B.S., 2008), A. Swanson (B.S., 2009), C. Walsh (B.S., 2008), A. Walton (B.S., 2007), D. Welch (B.S. 2009), L. Wilcox (B.S., 2001), and N. Wilson (B.S., 2002)

### **COURSES TAUGHT AT COLORADO SCHOOL OF MINES:**

**NOTE:** Course load at CSM was 4 courses/year 1998–2009; now 3 courses/year.

- CSM 101: Freshman Success Seminar
- MACS 261: Programming Concepts in C++ (assigned course to upgrade, 2006-07)
- CSCI 442: Operating Systems
- MACS 461/462: Senior Seminar
- CSCI 471/598: Computer Networks I
- MACS 498/598: Mobile Computing and Networking
- MACS 542: Simulation
- SYGN 550: Intelligent Geosystems
- MACS 565: Distributed Computing Systems
- MACS 598: Self-Organizing Networks

### **COURSES TAUGHT AT THE UNIVERSITY OF ALABAMA:**

**NOTE:** Course load at University of Alabama was 4 courses/year.

- CS 426: Introduction to Operating Systems
- CS 480/580: Systems Simulation
- CS 606: Analysis of Operating Systems
- CS 613: Computer Communications and Networks
- CS 626: Distributed Computing Systems
- CS 691: Mobile Computing and Networking
- CS 595/596 & CS 695/696: Graduate Seminar

### **OTHER EDUCATIONAL ACTIVITIES:**

- Creation of partially completed lecture notes for Operating Systems (currently 82 pages); notes incorporate cooperative learning into the course. Specifically, the lecture notes include individual and group exercises that are completed by the students during lecture periods.
- Development of BACI, a toolkit that teaches students concurrency concepts. The BACI Toolkit is in use (or has been used) at more than **60 universities in 25 countries** (as of June 2007). For further details, see Dr. Camp’s article published in the *Proceedings of the 27th SIGCSE Technical Symposium on Computer Science Education (SIGCSE)*, 1996.
- Higher Education Partner for a survey to study gender differences as they relate to ethnic and cultural models in the computing sciences. 50 universities in the United States are involved. The survey is led by Xavier University of Louisiana and funded by NSF.
- Development of an on-line version of the Operating Systems course.
- Faculty presenter in Toilers Research Group on various “Research Skills” topics (e.g., choosing a good research problem and presenting your research results).

## INVITED PRESENTATIONS:

– **Keynote:**

*Annual Midwest Computer Conference*, 1997  
*Australian Women in IT Conference*, 2006  
*Ohio Celebration of Women in Computing (OCWIC)*, 2009  
*STARS Celebration*, 2009  
*International Conference on Simulation Tools and Techniques (SIMUTools)*, 2010

– **Banquet Speaker:**

*Annual Consortium for Computing in Small Colleges Northeastern Conference*, 1999

– **Distinguished Lecturer (ACM or CRA-W):**

Florida International University, 2007 (two talks)  
Huazhong University of Science and Technology (China), 2009  
Missouri University of Science and Technology, 2009  
Northwestern University, 2008  
Ohio State University, 2009  
South China University of Technology (China), 2009  
Tsinghua University (China), 2009  
University of Bonn (Germany), 2010 (two talks)  
University of North Carolina, Charlotte, 2008

– **Colloquium Speaker:**

Air Force Academy, 2007  
College of Holy Cross, 1999  
Colorado School of Mines, 1998, 2004  
Colorado State University, 1999, 2007  
Ithaca College, 1996  
Kalamazoo College, 1996  
Lincoln University (New Zealand), 2006  
University of Auckland (New Zealand), 2006 (2 presentations)  
University of Canterbury (New Zealand), 2006 (2 presentations)  
University of Colorado, Boulder, 1998  
University of Colorado, Denver, 1998  
University of Denver, 2005  
University of Georgia, 2006  
University of Hawaii, 2005  
University of Illinois, Springfield, 1996 (2 presentations)  
University of Otago (New Zealand), 2006 (2 presentations)  
University of Waikato (New Zealand), 2006 (2 presentations)

## INVITED PRESENTATIONS cont.:

### – Meeting Speaker:

- ACM Council*, 1999
- ACM Student Chapter* (Kalamazoo College), 1996, 2002
- ACM Student Chapter* (University of Alabama), 1996 (2 presentations)
- Alabama Consortium for Computer Research and Development*, 1993
- American Society of Civil Engineers*, 1997
- Canterbury Computer Education (New Zealand)*, 2006
- Center for Automation, Robotics, and Distributed Intelligence*, 1999
- MCS Graduate Women's Forum*, 2004
- Microsoft Research Summit*, 2009
- Newcomers*, (Grace Hopper Celebration), 2008, 2009
- NSF Mobility in Wireless Networks Workshop*, 2007
- On the Edge of Knowledge Seminar*, 2004
- Sigma Xi*, 1996
- Society of Women Engineers* (Colorado School of Mines), 1999
- Society of Women Engineers* (University of Illinois–Springfield), 1996
- Society of Women Physicists* (Colorado School of Mines), 2007
- Women in Computer Science (WICS)*, Florida International University, 2007
- Women in Science* (Kalamazoo College), 2002
- Women's Group* (University of Auckland, New Zealand), 2006
- Zonta Group*, 1998

## SAMPLE CONFERENCE/PANEL PRESENTATIONS:

- “Volunteerism”, *CRA-W Advanced Career Mentoring Workshop*, Santa Fe, New Mexico, November 15th, 2008. (Invited.)
- “A Desirable Underwater Portfolio: Stocks NO, Sensors YES”, IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks, San Francisco, CA, June 17th, 2008. (Invited.)
- “Planning, Organizing, and Holding Regional Celebrations of Women in Computing”, *Grace Hopper Celebration of Women in Computing*, Keystone, Colorado October 3rd, 2008. (Invited.)
- “Now You’re an Associate Professor - What’s Next?”, *Grace Hopper Celebration of Women in Computing*, Orlando, Florida, October 18th, 2007. (Panel organizer and moderator.)
- “Building and Managing a Strong Research Group”, *Grace Hopper Celebration of Women in Computing*, San Diego, California, October 5th, 2006. (Co-panel organizer, with Anne Condon, University of British Columbia.)
- “Predicting Node Location in a PCS Network,” *23rd IEEE International Performance, Computing, and Communications Conference (IPCCC 2004)*, Phoenix, Arizona, April 15th, 2004.
- “Comparison of Broadcasting Techniques for Mobile Ad Hoc Networks” *The ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2002)*, Lausanne, Switzerland, June 11th, 2002.
- “Location Information Services in Mobile Ad Hoc Networks”, *The IEEE International Conference on Communications (ICC 2002)*, New York, New York, May 1st, 2002.

## MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

- CRA’s Committee on the Status of Women in Computing Research (CRA-W), invited member since 2007.
- Academic Alliance, National Center for Women and Information Technology, invited member since 2004
- ACM’s Committee on Women in Computing (ACM-W), invited member since Oct. 1996
- Upsilon Pi Epsilon, invited member 1993–1998
- Institute for Electronics and Electrical Engineers (IEEE), since 1990; senior member in 2006.
- Association for Computing Machinery (ACM), since 1989; distinguished scientist in 2006.

## PROFESSIONAL SERVICE:

### Leadership Roles:

- Program Chair: ACM SIGCSE, 2012.
- Program Co-Chair: 2nd Workshop on Scenarios for Network Evaluation Studies, 2010.
- General Chair: Grace Hopper Celebration of Women in Computing, 2010.
- Finance Co-Chair: 16th Annual ACM International Conference on Mobile Computing and Networking (MobiCom), 2010.
- Finance Co-Chair: 11th Annual ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2010.
- Program Co-Chair: Workshop on Mobile Opportunistic Networking (MobiOpp), 2010.
- Program Chair: Grace Hopper Celebration of Women in Computing, 2009.
- Program Co-Chair: Workshop on Scenarios for Network Evaluation Studies, 2009.
- Co-Conference Chair: Colorado Celebration of Women in Computing, 2008.
- Finance Co-Chair: 14th Annual ACM International Conference on Mobile Computing and Networking (MobiCom), 2008.
- Co-Chair of CRA-W’s Distributed Mentoring Project, 2007–present.
- Co-Founder (& Co-Leader) of N<sup>2</sup> Women (Networking Networking Women), a community supported by ACM, IEEE, Microsoft Research, and HP Labs 2006–present.
- Member of the the Academic Alliance, National Center for Women and Information Technology (NCWIT), 2004–present.
- Co-Leader of the ACM-W Ambassador Program, 2006–2009.
- Elected ACM SIGMOBILE Treasurer and to Executive Committee, since 2005–2009.
- Chair of Academic Advisory Committee: Grace Hopper Celebration, 2007.
- Co-Host of NSF NOSS PI and Informational Meeting (over 140 attendees), 2004.
- Co-Chair of ACM’s Committee on Women in Computing, 1998–2002.
- Host of Developing On/Off-Line Computer Ethics Workshop, May 2002.
- Chair of Paper Committee: Grace Hopper Celebration, 2002.
- Host of Developing On/Off-Line Computer Ethics Workshop, May 2001.
- Co-Chair of Paper Committee: Grace Hopper Celebration, 2000.
- Host of Developing On/Off-Line Computer Ethics Workshop, June 2000.
- Steering Committee Member and Chair of Scholarships Committee: Grace Hopper Celebration of Women in Computing, Sept. 1997, San Jose, CA.  
Reviewed 224 scholarship applications.

**PROFESSIONAL SERVICE cont.:**

**Advisory Roles:**

- Anita Borg Technical Leadership Award Committee, 2006–2009
- ACM Gender Task Force, 2007–2008
- Grace Hopper Celebration Academic Advisory Committee, 2006
- Grace Hopper Scholars Program at the Community College of Baltimore County, 2002-2003.
- Women in Science, Engineering and Mathematics (WISEM), 1999-2001.

**Editorial Boards/Steering Committees:**

- Mobile Opportunistic Networking (MobiOpp), since 2011
- Pervasive and Mobile Computing, since 2007
- IEEE Transactions on Mobile Computing, 2008–2011
- Computer Communications, since 2009–2010
- Computer Science Community, Engineering Pathways, since 2007.
- MANET (Mobile Ad hoc NETworking) Area Editor, CRAWDAD, 2006–2008.
- Ad Hoc Networks Journal, 2004–2008.
- Journal of Information Technology Impact, Jan. 1998-2002.

**Conference Program Committee Member:**

- ACM International Conference on Mobile Computing and Networking (MobiCom)
- ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)
- ACM International Workshop on Mobile Opportunistic Networks (MobiOpp)
- ACM Southeast Conference
- ACM Symposium on Applied Computing
- ACM Workshop on Vehicular Ad-hoc Networks (VANET)
- Australasian Telecommunication Networks and Applications Conference (ATNAC)
- ICST International Conference on Body Area Networks (BodyNets)
- ICST International Conference on Simulation Tools and Techniques (SIMUTools)
- IEEE International Conference on Communications (ICC)
- IEEE International Conference on Distributed Computing Systems (ICDCS)
- IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS)
- IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS)
- IEEE International Conference on Parallel and Distributed Systems (ICPADS)
- IEEE International Conference on Sensor, Mesh, and Ad Hoc Communications and Networks
- IEEE International Workshop on Heterogeneous Wireless Sensor Networks (HWISE)
- IEEE International Workshop on Mobile Vehicular Networks (MoVeNet)
- IEEE Wireless Communications and Networking Conference (WCNC)
- IEEE Workshop on Autonomic and Opportunistic Communications (AOC)
- IEEE Conference on Local Computer Networks (LCN)
- International Conference on AD-HOC Networks & Wireless (AdHocNow!)
- International Conference on Mobile Ad-hoc and Sensor Networks (MSN)
- International Conference on Applied IT (IAIT)
- International Conference on Wireless Algorithms, Systems, and Applications (WASA)
- International Workshop on Pervasive Wireless Networking (PWN)
- National Education Computing Conference (NECC)

**PROFESSIONAL SERVICE cont.:**

**Grant Proposal Reviewer:**

- Israel Science Foundation
- Louisiana Department of Education
- Natural Sciences and Engineering, Research Council of Canada (NSERC)
- NSF Advanced Networking Infrastructure and Research (ANIR)
- NSF Division of Computer and Network Systems (CNS)
- NSF Networking Technology and Systems (NeTS)
- NSF Networking and Communications Research (NCR)
- NSF Research Planning Grants (RPG)
- NSF Instrumentation and Laboratory Improvement (ILI)
- University of California MICRO Program

**Textbook Reviewer:**

- Addison-Wesley
- DC Heath
- John Wiley & Sons, Inc.
- Prentice Hall

**Journal Paper Reviewer:**

- ACM Journal on Educational Resources in Computing
- ACM Mobile Networks and Applications
- ACM Mobile Computing and Communications Review
- ACM Transactions on Internet Technologies
- ACM Transactions on Modeling and Computer Simulation
- British Computer Society: Computer Journal
- Elsevier Ad Hoc Networks
- Elsevier Computer Communications
- Elsevier Computer Networks
- Elsevier Journal of Parallel and Distributed Computing
- Elsevier Journal of Systems and Software
- EURASIP Journal on Wireless Communications and Networking
- IEEE Communications Letters
- IEEE Journal on Selected Areas in Communications
- IEEE Network Magazine
- IEEE/ACM Transactions on Networking
- IEEE Transactions on Mobile Computing
- IEEE Transactions on Parallel and Distributed Systems
- IEEE Transactions on Software Engineering
- IEEE Transactions on Vehicular Technology
- IEEE Transactions on Wireless Communications
- Journal of Communications and Networks
- Journal of Women and Minorities in Science and Engineering
- Wiley International Journal of Communication Systems
- Wiley Wireless Communications & Mobile Computing

**PROFESSIONAL SERVICE cont.:**

**Conference Paper Reviewer** (other than PC roles):

- ACM International Conference on Mobile Computing and Networking (MobiCom)
- ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc)
- ACM International Symposium on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM)
- ACM Southeast Conference
- IEEE Joint Conference of the Computer and Communications Societies (INFOCOM)
- IEEE Global Communications Conference (Globecom)
- IEEE International Conference on Communications (ICC)
- IEEE International Conference on Distributed Computing Systems (ICDCS)
- IEEE International Region 10 Conference (Tencon)
- IEEE International Workshop on Algorithms for Wireless, Mobile, Ad Hoc and Sensor Networks
- IEEE International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS)
- IFIP Networking Conference
- International Symposium on Wireless Communication Systems
- Joint Conference on Information Sciences
- Military Communications Conference (MILCOM)
- National Education Computing Conference (NECC)

**UNIVERSITY SERVICE:**

**Leadership Roles at the Colorado School of Mines:**

- Interim Department Head of Mathematical and Computer Sciences (2010-2011)
- Co-Director of SmartGeo (2008 – present)
- Associate Director of the Center for Automation, Robotics, and Distributed Intelligence (2003 – present)
- Coordinator of the CSM Academic Female Faculty Meetings (2001 – present)

**Service at the Colorado School of Mines:**

- Member of University Promotion and Tenure Committee (2009-10)
- Member of CSM's Vision Committee (2009-10)
- Member of Presidential Search Committee (2000-01)
- Member of Graduate Council (Spring 2003, 2004-05)
- Member of Scholastic Awards Committee (2002-2005)
- Member of Faculty Search for Mechanical Engineering, Thermosciences (2002-03)
- Member of Faculty Search for Clare Booth Luth Faculty Member (2004-05)
- Member of Faculty Search for Metallurgical and Materials Engineering (2006-07)
- Member of Diversity Committee (2004-05)
- Member of Title IX Compliance Committee (2004-05)
- Member of Compensation Committee (2004-05)
- Member of Committee on Committees (2004-05)

**DEPARTMENTAL SERVICE:**

**Leadership Roles at the Colorado School of Mines:**

- Graduate Director and Chair of Graduate Committee (Spring 2004, 2004-05)
- Co-Chair of Search Committee for EE/CS Faculty (2008-09)
- Chair of Search Committee for Computer Science Faculty (2002-03)
- Chair of Undergraduate Committee (Spring 2003)
- Faculty co-advisor for MCS Graduate Women’s Forum (2004-2005)
- ACM Faculty Advisor (1998-99)
- Coourse Coordinator for CSCI 261 (2006–2008)

**Service at the Colorado School of Mines:**

- Member of Search Committee for Computer Science Faculty (1998-99, 2001-02, 2002-03, 2003-04, 2004-05, 2006-07)
- Mentor to M. Colagrosso (2003–2008), J. Liu (2004–2007), and Q. Han (since 2005)
- Member of Graduate Committee (2001-02, Spring 2004, 2004-05, 2009-10)
- Member of Undergraduate Committee (1998-99, 2002-03)
- Member of Ph.D. Qualifying Exam Committee (1999, 2000, 2001, 2003, 2004, 2005)
- Member of Systems Support (2001-02, 2002-03)
- Member of Space Committee (2001)

**Leadership Roles at the University of Alabama:**

- Chair of Colloquium Committee (1993-94, 1994-95)
- Chair of Graduate Recruiting Committee (1998)
- Chair of Recycling Committee (1994 – 1998)
- Chair of Alumni Advisory Committee (1993-94, 1994-95)
- ACM Faculty Advisor (1993-94)
- Chair of Graduate Student Orientation (1995-96)
- Chair of Work Load Committee (1995-96)

**Service at the University of Alabama:**

- Member of Equipment Committee (1993-94, 1994-95, 1995-96)
- Member of Space Committee (1994-95)
- Member of Search Committee for Faculty (1993-94)
- Member of Graduate Committee (1993-94)
- Hosted Jae Kwang Lee from Han Nam University, Korea (1997-98)