# LINDA EROH

## ADDRESSES

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## EDUCATION

B.S., Western Michigan University (1993)
M.A., Western Michigan University (1995)
Ph.D., Western Michigan University (2000)

## EXPERIENCE

Student Assistant, President's Office, Western Michigan University, Fall 1991
Graduate Teaching Assistant, Department of Mathematics and Statistics, Western Michigan
University, 1993-1995
Research Assistant, Office of Naval Research, Spring 1995
Doctoral Assistant, Department of Mathematics and Statistics, Western Michigan University,
1996-2000
Mathematics Teacher in Academically Talented Youth Program (ATYP), Algebra II, Kalamazoo,
Michigan, 1998-1999
Conference Assistant, Ninth Quadrennial International Conference in Graph Theory,
Combinatorics, Algorithms, and Applications, Western Michigan University, Spring
2000
Assistant Professor of Mathematics, University of Wisconsin Oshkosh, Fall 2000- Fall 2007
Associate Professor of Mathematics, University of Wisconsin Oshkosh, Fall 2007-present

## MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

American Mathematical Society
Association for Women in Mathematics
Institute of Combinatorics and Its Applications (full Fellow since 2007)
Mathematical Association of America
Pi Mu Epsilon
Society for Industrial and Applied Mathematics (periodically a member, lapsed 2007)

## AWARDS, GRANTS, AND HONORS

Freshman-Sophomore Prize Competition in Calculus, Western Michigan University, 1991
Undergraduate Research Grant, Western Michigan University, Winter 1992
Pi Mu Epsilon Honors, Western Michigan University, 1993
Presidential Scholar, Mathematics and Statistics, Western Michigan University, 1993
Charles H. Butler Excellence in Teaching Award, Western Michigan University, 1995
All-University Scholar, Western Michigan University, 1999
UWO Professional Development Grant, Research Component, Summer 2001
UWO Professional Development Grant, Special Teaching Component, Summer 2004
Penson Award, Fall 2007, UWO

**PROFESSIONAL SERVICE**

Secretary, Michigan Epsilon Chapter of Pi Mu Epsilon Mathematics Honor Society, Western
      Michigan University, 1992-1993
Graduate Student Representative, Michigan Epsilon Chapter of Pi Mu Epsilon Mathematics Honor
      Society, Western Michigan University, 1997-1999
Conference Assistant, Ninth Quadrennial International Conference in Graph Theory,
      Combinatorics, Algorithms, and Applications, Western Michigan University, June 2000
Co-Organizer, Teaching Students to Write Proofs, Panel Session at Project NExT Workshop in
      conjunction with Math Fest, Burlington, Vermont, August 2003
Co-Organizer, Midwestern Graph Theory Conference XXXVI, May 2003, Oshkosh, Wisconsin
Co-Organizer (w. R. Gera, Naval Postgraduate School), Distance in Graphs Minisymposium,
      SIAM Discrete Mathematics Conference, Halifax, Nova Scotia, Canada, June 2012
Judged undergraduate student presentations at MathFest, Madison, Wisconsin, August 2012

**PROFESSIONAL TALKS**

1. **Continuous Labellings and Metric Graphs**, presented at the Twenty-seventh Midwestern
   Graph Theory Conference, University of Wisconsin, Oshkosh, May 1997.

2. **Resolvability in Graphs and the Metric Dimension of a Graph**, presented at the Twenty-
   eighth Midwestern Graph Theory Conference, Eastern Michigan University, Ypsilanti,
   October 1997.

3. **Regular Graphs of Given Girth**, presented at the Thirtieth Southeastern Conference on
   Combinatorics, Graph Theory, and Computing, Florida Atlantic University, Boca Raton,
   March 1999.

4. **Rainbow Ramsey Numbers**, presented at the Thirty-Second Midwestern Graph Theory
   Conference, Indiana-Purdue University, Fort Wayne, October 1999.

5. **Rainbow Ramsey Numbers**, also presented at the Joint Mathematics Meetings, Washington,
   D.C., January, 2000.

6. **Rainbow Ramsey Numbers**, also presented at the Winnipeg Combinatorial Mathematics
   Conference in Winnipeg, Manitoba, Canada, September, 2000.

7. **Bipartite Rainbow Ramsey Numbers**, preliminary report, presented at the Horizons in
   Combinatorics Conference at Vanderbilt University, in Nashville, Tennessee, May 2001.

8. **Bipartite Rainbow Ramsey Numbers**, presented at the Thirty-fourth Midwestern Graph
   Theory Conference, Oakland University, Rochester, Michigan, October 2001.

9. **Bipartite Rainbow Ramsey Numbers**, also presented at the Joint Meetings of the American
   Mathematical Society and the Mathematical Association of America, San Diego, January
   2002.

10. **Edge-Deleted Eccentricity Sets for Graphs**, presented at the Research Conference of the
    Connect Institute at the Center for Discrete Mathematics and Computer Science(DIMACS),
    Rutgers University, New Jersey, July 2002.

11. **Forbidden Subgraph Generalizations of the Ramsey Number**, presented in the
    Generalized Ramsey Problems Minisymposium, at the SIAM Activity Group Conference on
    Discrete Mathematics, San Diego, August 2002.

12. **What are the possible sets of edge-deleted eccentricities of a graph?**, presented at the Midwest Graph Theory Conference (MIGHTY) XXXV, Illinois State University, Normal, Illinois, September 2002.

13. **Average Edge-Deleted Eccentricity**, presented at the Thirty-fourth Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Florida Atlantic University, Boca Raton, March 2003.

14. **List-Coloring Certain Complete Multipartite Graphs**, presented at the Midwest Graph Theory Conference (MIGHTY) XXXVII, Valparaiso University, Valparaiso, Indiana, September 2003.

15. **List-Coloring Certain Complete n-Partite Graphs**, presented at the Thirty-Fourth Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Florida Atlantic University, Boca Raton, Florida, March 2004.

16. **List-Coloring Certain Complete n-Partite Graphs**, presented at the Seventeenth Cumberland Conference on Combinatorics, Graph Theory, and Computing, Middle Tennessee State University, Murfreesboro, Tennessee, May 2004.

17. P**roblem-Based Inquiry Seminar in Environmental Mathematics**, presented at the Joint Meetings of the AMS and the MAA, Atlanta, Georgia, January 2005.

18. **Path and Cycle Decomposition Numbers**, presented at the Thirty-Sixth Southeastern International Conference in Combinatorics, Graph Theory and Computing, Florida Atlantic University, Boca Raton, Florida, March 7, 2004.

19. **Stable Graphs with Respect to Alliance Number and Relationships between Different Alliance Numbers**, presented at the Third Prairie Discrete Mathematics Workshop, University of Winnipeg, Winnipeg, Manitoba, Canada, August 26, 2005

20. **More on Defensive Alliances**, presented at the regional American Mathematical Society meeting , University of Nebraska, Lincoln, Nebraska, October 21, 2005

21. **Some Recent Results on Minimum and Maximum Values of Gamma-Labelings of Graphs,** SIAM Conference on Discrete Mathematics, University of Victoria, Victoria, British Columbia, June 25-28, 2006

22. **Values of Gamma-labelings of Complete Bipartite Graphs**, Thirty-eighth Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Florida Atlantic University, March 5-9, 2007

23. **Pizza Delivery:** , SIAM Conference on Discrete Mathematics, University of Vermont, Burlington, Vermont, June 2008

23. **On Minimum and Maximum values of Gamma-labelings of Graphs,** 2nd Canadian Discrete and Algorithmic Mathematics Conference, May 25-28, 2009,  Montreal, Quebec, Canada

24. **On k-circuit distance in graphs** Joint Math Meetings of the AMS and MAA, San Francisco, January 2010, gave a talk in an AMS Special Session on Applications of Graph Theory,

25. **Choosing a Central Location for Multiple Deliveries**, SIAM Conference on Discrete Mathematics, Hyatt Regency, Austin, Texas, June 14-17, 2010, invited talk in Minisymposium on Applications of Graphs and Digraphs

26. **A Survey of Metric Dimension in Graphs**, Texas A&M University at Galveston, Galveston, TX, Jan. 28, 2011, invited seminar talk for faculty and students

27. **Knight's Tours Using External Squares,** AMS Western Section Meeting, University of Nevada Las Vegas, April 30, 2011, part of Special Session on Discrete Dynamical Systems in Graph Theory, Combinatorics, and Geometry

28. **Prisoners and Guards on Rectangular Boards**, AMS Spring Southeastern Section Meeting, University of South Florida, Tampa, Florida, March 10, 2012, part of Special Session on Discrete Mathematics and Geometry.

29. **On Metric Dimension of Functigraphs**, SIAM Discrete Mathematics Conference, Dalhousie University, Halifax, Nova Scotia, June 2012, part of Minisymposium on Distance in Graphs (a session which R. Gera and I co-organized).

30. **Prisoners and Guards**, MathFest, Madison, Wisconsin, August 2012, part of contributed paper session Research in Graph Theory or Combinatorics.

31. **Hamiltonian Cycles in {1,4}-Leaper Graphs**, SIAM Conference on Discrete Mathematics, June 2014, Minneapolis, Minnesota.

32. **A Comparison between the Metric Dimension and Zero-forcing Number of Trees and Unicyclic Graphs**, AMS Special Session on Studies in Interconnections among Parameters in Graph Theory, Combinatorics, and Discrete Geometry (organized by Eunjeong Yi and Cong X. Kang), Joint Mathematics Meetings, January 2015, San Antonio, Texas.

## TALKS FOR WHICH I WAS A CO-AUTHOR

Muldoon, M.A. and Linda Eroh, 2004. Development of a Problem Based Inquiry Seminar (PBIS) Using Geologic Examples. (Abstract) Geological Society of America, Abstracts with Programs, v. 36, no. 5, p. 519.

## REFEREED PUBLICATIONS

1. *Distance, Stratified Graphs, and Greatest Stratified Subgraphs*. Congressus Numerantium (with G. Chartrand, M. Schultz, R. Rashidi, and S. Sherwani) 107 (1995), 81-96.

2. *Matching Graphs*. Journal of Graph Theory (with M. Schultz) 29 (1998), no. 2, 73-86.

3. *Cages of Girth 5 and 7*. Congressus Numerantium (with A. Schwenk) 138 (1999)157-173.

4. *How Large Can the Domination Numbers of a Graph Be?* Australasian Journal of Combinatorics (with G. Chartrand, F. Harary, and P. Zhang) 21 (2000), 23-35.

5. *Resolvability in Graphs and the Metric Dimension of a Graph* Discrete Applied Mathematics (with G. Chartrand, M. Johnson, and O. Oellermann) 105 (2000), no. 1-3, 99-113.

6. *An Introduction to Analytic Graph Theory*. Utilitas Mathematica (with G. Chartrand, M. Schultz, and P. Zhang) 59 (2001), 31-55.

7. *Rainbow Ramsey Numbers of Stars and Matchings*. Bulletin of the Institute of Combinatorics and Its Applications. Jan. 2004, 40 (2004) 91-99.

8. *Average Edge-Deleted Eccentricity*. Congressus Numerantium (w. K. McDougal, H. Moghadam, S. Winters) p. 163 (2003), 97-106.

9. *Bipartite Rainbow Ramsey Numbers*. Discrete Math (w. O. Oellermann) 277 (2004), no. 1-3, 57--72. Feb. 2004

10. *Constrained Ramsey Numbers of Matchings.* Ars Combinatoria, transferred to JCMCC due to backlog. Journal of Combin. Math. Combin. Comput. 51 (2004), 175--190.

11. *The Tour Numbers of a Graph* (w. G. Bullington, G. Johns, S.J. Winters) Congressus Numerantium 168 (2004), 13 – 20.

12. *Stability of Alliance Number in Graphs*. Congressus Numerantium (w. G. Bullington, S.J. Winters) accepted Aug. 2005. published 177 (2005), 89-100.

13. *Path and Cycle Decomposition Numbers* (w. G. Bullington, J. Koker, K. McDougal, H. Moghadam, S. Stalder, S.J. Winters) Australasian Journal of Combinatorics 39 (Oct. 2007), 89-102.

14. *Geodetic and Steiner-Geodetic Sets in 3-Steiner Distance Hereditary Graphs*, w. O. Oellermann, *Discrete Math* Volume 308, Issue 18, Sept. 28, 2008, 4212-4220.

15. *Global Alliance Partition in Trees*, w. R. Gera, submitted to Journal of Combinatorial Mathematics and Combinatorial Computing 66 (2008), pp. 161-169

16. *Gamma-labelings of complete bipartite graphs*, started summer 2005. (w. G. Bullington, J. Koker, H. Moghadam, S. Stalder, S.J. Winters) *Discussiones Mathematicae Graph Theory* 2010, Vol. 30, pages 45-54.

17. *Edge-Deleted Eccentricities of Graphs*. (w. J. Koker, H. Moghadam, S.J. Winters) Nov. 2008. *Bulletin of the Institute for Combinatorics and Its Applications* 58 (2010) 6-16.

18. *Bounds Concerning the Alliance Number* (w. G. Bullington, S.J. Winters), *Mathematica Bohemica* 134 (2009), no. 4, 387-398.

19. *Classifying Trees with Edge-Deleted Central Appendage Number 2.* JOIN (w. S. Stalder, J. Koker, H. Moghadam, S.J. Winters) *Mathematica Bohemica* 134(2009), no. 1, 99-110.

2. *Variations on the Knight's Tour for Rectangular Chessboards on Alternative Surface*(w. G. Johns, G. Bullington, S. J. Winters), *Congressus Numerantium*, 206 (2010), 199-213.

20. *Closed k-stop distance in graphs* (w. G. Bullington, R. Gera, S.J. Winters) *Discussiones Mathematicae Graph Theory* **31** (2011) 533 – 545.

21. *Domination in functigraphs* (w. R. Gera, C.X. Kang, C. E. Larson, E. Yi) *Discussiones Mathematicae Graph Theory* volume 32 (2), 2012.

22. *Closed 3-stop Center and Periphery in Graphs* (w. R. Gera, S.J. Winters) *Acta Mathematica Sinica*, Printed on-line January 2012 with (DOI) **10.1007/s10114-011-0187-4** by Springer Link. In print March 2012 Vol. 28, No. 3, 439 – 452.

23. *On Metric Dimension of Graphs and Their Complements* (w. C.X, Kang, E.Yi) J. Combin. Math. Combin. Comput. Vol. 83 (2012) pp. 193-203.

24. *Alliance Partition Number in Graphs*. (w. R. Gera) Ars Combinatoria 103 (2012), 519-529.

3. *On Metric Dimension of Functigraphs* (w. C.X. Kang, E. Yi) *Discrete Mathematics, Algorithms and Applications*. Also on math archives: http://arxiv.org/abs/1111.5864 Appeared 5 (2013), No. 4.

24. *Prisoners and Guards* (w. G. Bullington, S.J. Winters), *Journal of Integer Sequences*, Vol. 17 (2014) Article 14.8.1.

25. *Metric Dimension and Zero Forcing Number of Two Families of Line Graphs*. (w. C.X. Kang, E. Yi). *Mathematica Bohemica*. vol. 139, no. 3 (2014), pp. 467-483

26. *Knights Tours on Rectangular Chessboards using External Squares* (w. G. Johns, S.J. Winters, G. Bullington) *Journal of Discrete Mathematics* vol. 2014, Article ID 210892, 9 pages, 2014. doi:10.1155/2014/210892.

27. *On Zero Forcing Number of Graphs and Their Complements* (w. C.X. Kang, E. Yi) Discrete Mathematics, Algorithms, and Applications Volume No. 07, issue number 01, Feb. 2015.

28. *The effect of vertex or edge deletion on the metric dimension of graphs* (w. P. Feit, C.X. Kang, E. Yi). *Journal of Combinatorics* Volume 6, No. 4, 2015 (online).


## ACCEPTED FOR PUBLICATION

1. *A Graph Theoretical Analysis of the Number of Edges in k-Dense Graphs* (w. H. Escuardro, R. Gera, S. Pralow, K. Schmitt) Electronic Journal of Graph Theory and Applications. Accepted final version and will be published in next issue as of March 2016.

2. *A Comparison between the Metric Dimension and Zero-forcing Number of Trees and Unicyclic Graphs* (w. C.X. Kang, E. Yi) *Acta Mathematica Sinica* B20140699. Accepted Nov. 21, 2016. Appearing on-line first at
http://www.springer.com/10114 or http://www.ActaMath.com.

## SUBMITTED FOR PUBLICATION

3. *Forbidden Subgraph Edge Colorings.* (w. G. Bullington, K. McDougal, H. Moghadam, S. Stalder, S.J. Winters) Submitted to Electronic Journal of Combinatorics in February 2017. Linda corresponding author.

4. *List-Colorings of Some Complete n-Partite Graphs.* Submitted to Networks, Jan. 2004; rejected and under revision.

5. *Distances in Function Graphs.* (w. R. Gera, S. Winters), started at SIAM June 2012. Ralucca submitted to JCMCCC Dec. 1, 2015.


## IN PROGRESS

1. *Hamiltonian Cycles in (1,4)-Leaper Graphs* (w. Z. Benzaid, G. Bullington, H. Moghadam, S. Winters, w/ student assistant Sara Roth)
2. *Bounds on the Strong Rainbow Connection Number* (w. S. Winters, G. Johns, R. Gera) started at SIAM conference in Summer 2012.


## SEMINAR TALKS

1.  **History of Calculus, History of Mathematics Seminar**, Western Michigan University, January 1997.

2.  **Analyzing Graph Theory**, Graph Theory Seminar, Western Michigan University, March 1997.

3.  **Resolvability in Graphs and the Metric Dimension of a Graph**, Graph Theory Seminar, Western Michigan University, November 1997.

4.  **Calculus of Graphs**, Pi Mu Epsilon, Western Michigan University, December 1997.

5.  **The Four-Colour Theorem**, Brown Bag Seminar, Western Michigan University, October 1998.

6.  **Regular Graphs of Small Order with Specified Degree and Girth**, Graph Theory Seminar, Western Michigan University, November 1998.

7.  **Knot Invariants**, (Chapter 6 of *Knot Theory* by Charles Livingston), Knot Theory Seminar, Western Michigan University, March 1999.

8.  **Existence of Rainbow Ramsey Numbers**, Graph Theory Seminar, Western Michigan University, March 1999.

9.  **Rainbow Ramsey Numbers**, Graph Theory Seminar, Western Michigan University, October 1999.

10. **The Metric Dimension of a Graph**, Graph Theory Seminar, Western Michigan University, February 2000.

## PANELS

1.  Served as a member of the panel "Balancing Teaching, Scholarship, and Service: Maintaining Sanity" on May 3, 2007, at University of Wisconsin Oshkosh.

## COURSES TAUGHT

1.  **Pre-calculus, Western Michigan University**
    Prepared lectures using graphing calculator, held office hours, assigned and graded homework, assigned final grades

2.  **Calculus I, Western Michigan University and University of Wisconsin Oshkosh**
    Prepared lectures using graphing calculator, held office hours, prepared and graded examinations, assigned and graded homework, assigned final grades;  taught with Zill, Ostebee-Zorn, Stewart, Hughes-Hallett-Gleason texts

3.  **Calculus II, Western Michigan University and University of Wisconsin Oshkosh**
    Prepared lectures using graphing calculator, held office hours, taught students to use MAPLE software package, prepared and graded examinations, assigned and graded homework, assigned final grades

4.  **Business Statistics, Western Michigan University**
    Prepared lectures, held office hours, taught students to use MINITAB statistical software program, assigned and graded homework, wrote and graded quizzes and exams, assigned final grades

5.  **Mathematical Proofs, Western Michigan University**

Prepared lectures, held office hours, prepared and graded examinations, assigned and graded homework, assigned final grades

6. **ATYP Algebra, Kalamazoo College**
Prepared lectures and related learning activities for advanced seventh and eighth-grade students in a program for academically talented youth, held parent conferences, assigned final grades

7. **Introduction to College Algebra, University of Wisconsin Oshkosh**
Prepared lectures, held office hours, prepared and graded examinations, assigned and graded homework

8. **Trigonometry, University of Wisconsin Oshkosh**
Prepared lectures and group activities, held office hours, prepared and graded examinations, assigned and graded homework

   **Pre-Calculus, University of Wisconsin Oshkosh**
Prepared lectures and group activities, held office hours, prepared and graded examinations, assigned and graded homework

9. **Mathematics for Computer Science, University of Wisconsin Oshkosh**
Prepared lectures, held office hours, prepared and graded examinations, assigned and graded homework, prepared course web site using Blackboard and Desire2Learn system, consulted with computer science department chair and faculty about content of course

10. **Mathematical Modeling, University of Wisconsin Oshkosh**
Prepared lectures and classroom activities, held office hours, prepared and graded homework and quizzes, directed and graded final projects

11. **Advanced Topics in Mathematics (Graph Theory), University of Wisconsin Oshkosh**
Prepared lectures, assigned and graded homework and class projects, prepared and graded examinations

13. **Introduction to Abstract Mathematics, University of Wisconsin Oshkosh**
Prepared lectures and other classroom activities, assigned and graded homework and quizzes, prepared and graded examinations

14. **Number Systems (Math for Elementary School Teachers), University of Wisconsin Oshkosh**
Organized and supervised classroom activities, assigned and graded writing assignments and homework, prepared and graded examinations

15. **Problem-Based Inquiry Seminar: Global Change: Quantitatively examining the natural/physical world, University of Wisconsin Oshkosh**
Along with Maureen Muldoon (Geology), designed, wrote materials for, prepared lectures and graded homework, projects and examinations

16. **Problem-Based Inquiry Seminar: Topics in Discrete Mathematics, later retitled**
   **. Gambling, Secret Codes, and Social Networks**
Designed, wrote materials for, prepared lectures, prepared and graded assignments and examinations

17. **Independent Study in Graph Theory**. Two students, used portions of Chartrand and Lesniak, 4th edition, Graphs and Digraphs. Homework and final project involving research and/or application of graph theory.

18. **Finite Mathematics for Business**.  Using course packet written by colleagues at UWO. Prepared lectures and in-class group activities, assigned and graded homework and quizzes, prepared and graded examinations.

19. **Calculus for Business**

20. **Combinatorial Mathematics**

## OTHER CONFERENCES ATTENDED

Opening Workshop for New UW System Science, Mathematics, and Engineering Educationers, October 26-27, 2000, Madison, WI

UWS Women and Science Program Spring Retreat, May 17-18 2001, Wintergreen Hotel and Conference Center, "Spreading the Word about Reform"

MathFest, Burlington, Vermont, Project NExT Fellows Program, July-Aug. 2002, co-organized (w. R. Akhtar Miami University and C. Schabel University of Portland) a panel discussion "Teaching Students to Write Proofs".

Mathematics Education of Elementary Teachers(MEET) V, March 6, 2004, University of Wisconsin Waukesha

UW System Faculty College, June 1-4, 2004, UW Richland Center; attended workshops Teaching and Learning 101 and Want Your Students to Learn More? New Ideas for Designing Significant Learning into Your Courses.

Eighteenth Annual Pi Mu Epsilon Regional Undergraduate Math Conference Nov. 7-8, 2003, St. Norbert College

Nineteenth Annual Pi Mu Epsilon Regional Undergraduate Math Conference Nov. 5-6, 2004, St. Norbert College

Seventy-Third Annual Meeting of the Wisconsin Section of the MAA, UW-Washington County, April 15-16, 2005

MAA Wisconsin NExT "Magical Moments in Teaching" Workshop with Art Benjamin from Harvey Mudd College, Sept. 30 and Oct. 1, 2005

Seventy-fourth annual meeting of the Wisconsin Section of the MAA, UW-Whitewater, April 21-22, 2006

Faculty Dialogue NEW ERA Collaborative Conference, Friday, April 27, 2007, Fox Valley Technical College, Appleton, WI

OPID Faculty College, UW Richland, May 29 – June 1, 2007, attended workshops "How will they be different at the end of the semester?  Aligning student learning with Course Objectives"  Jennifer Meta Robinson and "Achievement, Equity and Retention: Three pedagogical changes that can make a real difference in ANY college classroom" Craig E. Nelson

November 2007, attended LEAP conference at DePere, Wisconsin, related to liberal education

2008 AAC&U Institute on General Education, as part of a team chosen from LERT, May 30-June 4, 2008, University of Minnesota in Minneapolis

2009 February 26-28.  AAC&U Conference General Education, Assessment, and the Learning Students Need, in Baltimore, Maryland.

April 17, 2010, Wisconsin Section MAA meeting held at UW Oshkosh.  I attended and chaired a session of talks (did not talk myself).

**COMMITTEE WORK**
**Department**
    Assisting with Face-Off, Preview Days, Major Fest
    With Jayanthi Ganapathy, CSEMS proposal for federal grant submitted 2003
    Merit committee, Jan./Feb. 2008, Mathematics department
    2001-2002 social, student activities, general education curriculum, core curriculum, graduate curriculum
    2002-2003 executive committee, assessment, social, general education curriculum
    2003-2004 executive committee, assessment, placement, social, pre-calculus curriculum, core curriculum
    2004-2005 assessment, social, student activities, pre-calculus curriculum, core curriculum
    2005-2006 assessment, social, student activities, general education, elementary/middle education, core curriculum
    2006-2007 assessment, social, student activities, general education curriculum, core curriculum
    2007-2008 assessment, social, student activities, general education, pre-calculus, core curriculum
    2008-2009 assessment, social, student activities, general education, core
    2009-2010 assessment, social, student activities, general education, core, elementary/middle math
    2010-2011 social, student activities, core, general education
    2011-2012 social, student activities, core, general education
    2012-2014 executive committee
    2014-2015 assessment, social, student activities, business, core, general education—chaired general education committee, led discussions about changing content/credit hours of Math 100/103 in response to new System policy (developmental math must be completed within the first 30 credit hours), also what courses should count towards USP
    2014-2015 assessment, policies, social, student activities, business, core, general education (chaired)

**College and University**
    Parking Policy Advisory Committee 2001-2004
    Advisory Council for Academic Advising, March 2003 to Fall 2006
    Student Academic Committee, 2003-2005, 2008-2010
    APGES, terms: Sept.2005 – June 2008, Sept. 2008 - June 2011; secretary Spring 2005, chaired Fall 2006, co-chair w. A. Kyburg Fall 2008 – Spring 2009, co-chair w. D. Jones Fall 2009-Spring 2010
    Faculty Development Grant Program reviewer, Jan. 2005, Jan. 2008, Jan. 2009, Jan. 2010, Jan. 2011, Jan. 2012 (?), Jan. 2013
    Search and Screen Committee for Assistant Dean of Students, Spring 2006
    LERT, starting summer 2007 to present, summer work group in 2008, Executive Committee Fall 2009-Spring 2011
    COLS Curriculum committee, two consecutive terms Sept. 2008 – May 2012
    General Education Reform Team, Connect group, Summer 2011
    Undergraduate Research Grant reviewer, Feb. 2013
    Faculty Senate, 2014-2017
    Academic Policies Committee,  Faculty Senate Representative, 2014-
    CETL Working Group—designing Global Citizenship designation Spring 2015
    Appointed to 2-year term on Global Scholar Council Dec. 2015

**Other Service**

Presented at Girl Scout Science Safari, "Math, Graphs, and Rigid Walls",  Fall 2002, Spring 2004

Wrote outside letter reviewing the research of Dr. Ralucca Gera as she was considered for tenure at the Naval Postgraduate School, Fall 2010

MathFest, August 2012, Madison, Wisconsin, helped judge undergraduate student presentations