

Curriculum Vitae & Publication List

Martin Bohner

Department of Mathematics and Statistics
Missouri University of Science and Technology*
Rolla, Missouri 65409–0020

`bohner@mst.edu`

`http://web.mst.edu/~bohner`

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*formerly the University of Missouri–Rolla

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Chapter 1

Curriculum Vitae

1.1 University Education

- October 1, 1986: Begin of the studies of ‘Wirtschaftsmathematik’ (mathematics, economics, operations research, statistics, computer science) as well as accompanying studies in philosophy at Universität Ulm.
- April 27, 1989: Graduation as bachelor in ‘Wirtschaftsmathematik’ (Grade ‘sehr gut’).
- August 1991 – August 1992: Studies of Applied Mathematics at San Diego State University in San Diego.
- August 21, 1992: Graduation as Master of Science in Applied Mathematics (GPA 4.0); Advisor of the Master’s Thesis: S. HUI.
- March 9, 1993: Graduation as ‘Diplom–Wirtschaftsmathematiker’ (Grade ‘Mit Auszeichnung’); Advisor of the Master’s Thesis: W. KRATZ.
- May 1993 – June 1995: Candidate for a doctorate at Universität Ulm.
- June 27, 1995: Graduation as Ph.D. in Natural Sciences (Grade ‘Summa Cum Laude’); Advisor of the Ph.D. Thesis: W. KRATZ.

1.2 Appointments

- 10/89–7/91: Scientific Assistant at Universität Ulm.
- 8/91–7/92: Teaching Assistant at San Diego State University.
- 10/92–7/93: Teaching Assistant at Universität Ulm.
- 8/94–4/95: Lecturer at Berufsakademie Heidenheim.
- 10/95–3/97: Assistant Professor at Universität Hohenheim.
- 3/97–8/97: Visiting Research Assistant Professor at National University of Singapore.
- 9/97–8/98: Visiting Assistant Professor at San Diego State University.
- 8/98–8/04: Assistant Professor at University of Missouri–Rolla.
- 8/01–5/03: Associate Professor at Florida Institute of Technology.
- 9/04–8/08: Associate Professor at University of Missouri–Rolla.
- Since September 2008: Professor at Missouri University of Science and Technology.
- Visiting Positions: Masaryk University Brno, Brno, Czech Republic (Fall 1994, Spring 1996, Summer 2000); University of New South Wales, Sydney, Australia (Summer 2004); Universität Ulm, Ulm, Germany (Summer 2000, Summer 2001, Summer 2003, Summer 2007).

1.3 Grants

- Fellowship from the ‘Landesgraduiertenförderung’ of the State of Baden–Württemberg, Germany, October 1993 – June 1995.
- Award of a Feodor–Lynen Research Fellowship of the Alexander von Humboldt–Foundation in Bonn, Germany, July 24, 1996.
- First part of the Feodor–Lynen Research Fellowship at National University of Singapore; Host: R. AGARWAL, March 1997 – September 1997.
- Second part of the Feodor–Lynen Research Fellowship at San Diego State University; Host: D. LUTZ, September 1997 – August 1998.
- University of Missouri Research Board Grant, “Linear Differential Equations on Measure Chains”, \$11,833, March 1999 – August 1999.
- TÜBITAK Grant “First International Workshop on Dynamic Equations on Time Scales”, \$20,000, July 2005.
- NSF / ISDE Travel Grant for Graduate Students, \$1,400, July 2005.
- University of Missouri Research Board Grant, “Applications of Dynamic Equations on Time Scales”, \$15,000, May 2005 – December 2006.
- National Science Foundation Grant (Interdisciplinary Grants in the Mathematical Sciences), “Time Scales in Economics and Finance”, \$100,000, September 1, 2007 – August 30, 2008.

1.4 Awards

1. CAS Excellence in Teaching Award, 2004 (UMR).
2. Faculty Excellence Award, 2004 (UMR).
3. Outstanding Teaching Award, 2005 (UMR).
4. CAS Excellence in Teaching Award, 2005 (UMR).
5. Faculty Excellence Award, 2005 (UMR).
6. Certificate of Recognition, 2006 (LEAD Program, UMR).
7. Freshman Engineering Program “We Love Your Class” Award, 2006 (UMR).
8. CAS Excellence in Teaching Award, 2006 (UMR).
9. Outstanding Teaching Award, 2006 (UMR).
10. Faculty Excellence Award, 2006 (UMR).
11. Freshman Engineering Program “We Love Your Class” Award, 2007 (UMR).
12. Faculty Excellence Award, 2007 (UMR).

1.5 Other Honors

1. The paper “Asymptotic behavior of dynamic equations on time scales” (coauthored with DONALD LUTZ) has been designated a “Fast Breaking Paper” by Thomson ISI Essential Science Indicators. ISI Essential Science Indicators lists highly cited papers in 22 broad fields of science. This paper was the only paper selected in the field of mathematics in October 2002.
2. Work has been featured on Sciencedaily.com, January 29, 2003.
3. Work has been featured as a cover story (“Taming Nature’s Numbers”) in “New Scientist Magazine” (British Edition, vol. 179, No. 2404), July 19, 2003.
4. Prize for the best presentation during the “Eighth International Conference of Difference Equations and Applications”, Brno, Czech Republic, August 1, 2003.
5. The paper “Dynamic equations on time scales: a survey” (coauthored with RAVI AGARWAL, DONAL O’REGAN, and ALLAN PETERSON) was the “most downloaded article”, Journal of Computational and Applied Mathematics, January–August 2004.
6. Honorary Knight of St. Pat’s, Rolla, Missouri, March 17, 2006.
7. The paper “Dynamic equations on time scales: a survey” (coauthored with RAVI AGARWAL, DONAL O’REGAN, and ALLAN PETERSON) has been designated an “Emerging Research Front” by Thomson ISI Essential Science Indicators. ISI Essential Science Indicators lists most prominent papers in 22 broad fields of science. This paper was the only paper selected in the field of mathematics in October 2007.

Chapter 2

Service

2.1 Service to Professional Societies

1. Member (invited) of AMS (American Mathematical Society), since 1991.
2. Member (invited) of DMV (German Mathematical Society), since 1994.
3. Member (invited) of MAA (Mathematical Association of America), 1998–2002.
4. Member of ISDE (International Society of Difference Equations), since 2001.
5. Member (elected) of Alexander-von-Humboldt Society, since 1996.
6. Member (elected) of the Board of Directors of ISDE, 2003–2005.
7. Member (elected) of the Board of Directors of ISDE, 2005–2007.
8. Member (elected) of the Board of Directors of ISDE, 2007–2009.
9. Member (elected) of the Board of Directors of ISDE, 2009–2011.
10. Vice President (elected) of ISDE, 2005–2007.
11. Webmaster for the webpage of ISDE, 2003–2007.
12. Organizer of special sessions during AMS meetings (San Diego, January 2002; Atlanta, March 2002; Phoenix, January 2004; Atlanta, January 2005; Mainz, June 2005; San Antonio, January 2006; New Orleans, January 2007).
13. Organizer of special sessions during DMV meetings (Mainz, June 2005).
14. Organizer of special sessions during SIAM (Society for Industrial and Applied Mathematics) meetings (Myrtle Beach, March 2001; Atlanta, January 2005).

15. Organizer of special sessions during IFNA (International Federation of Nonlinear Analysts) meetings (Catania, July 2000; Atlanta, May 2003).

2.2 Service to Profession

Conferences Organized

1. Organizing Committee, Co-Chair, “The First International Workshop on Dynamic Equations on Time Scales”, Istanbul, Turkey, June 27 – July 1, 2005.
2. Scientific Committee, Chair, “The First International Workshop on Dynamic Equations on Time Scales”, Istanbul, Turkey, June 27 – July, 2005.
3. Scientific Committee, Member, “Conference in Honor of Allan Peterson”, Abbazia di Novacella, Italy, July 28 – August 2, 2007.
4. Organizing Committee, Co-Chair, “14th International Conference on Difference Equations and Applications”, Istanbul, Turkey, July 21–25, 2008.
5. Scientific Committee, Chair, “14th International Conference on Difference Equations and Applications”, Istanbul, Turkey, July 21–25, 2008.

Editor-in-Chief for the following Journals

1. Abstract and Applied Analysis (since October 2006).
2. Advances in Dynamical Systems and Applications (since October 2005).
3. International Journal of Difference Equations (since October 2005).
4. Difference Equations and Discrete Dynamical Systems — An Electronic Newsletter (since February 2005).

Associate Editor for the following Journals

1. Advances in Theoretical and Applied Mathematics (since November 2005).
2. Advances in Difference Equations (since July 2003).
3. Archive of Inequalities and Applications (since July 2003).
4. Communications in Mathematical Analysis (since August 2005).
5. Global Journal of Pure and Applied Mathematics (since May 2005).
6. International Journal of Applied Mathematics and Statistics (since Jan 2008).
7. International Journal of Dynamical Systems and Differential Equations (since May 2006).
8. International Journal of Mathematics and Mathematical Sciences (since April 2006).
9. International Journal of Mathematics and Statistics (since June 2007).
10. International Journal of Modern Mathematics (since January 2006).
11. International Journal of Nonlinear Operators Theory and Applications (since October 2005).
12. Involve - A Journal of Mathematics (since Jan 2008).
13. Journal of Inequalities and Applications (since July 2003).
14. Mathematical Inequalities and Applications (since Dec 2008).
15. Nonlinear Dynamics and Systems Theory (since November 2006).

16. Selçuk Journal of Applied Mathematics (since February 2004).

Guest Editor for the following Journals

1. Computers and Mathematics with Applications.
2. Dynamic Systems and Applications.
3. Journal of Computational and Applied Mathematics.
4. Journal of Difference Equations and Applications.
5. Nonlinear Dynamics and Systems Theory.

Reviewer for the following Journals

1. Advances in Difference Equations.
2. African Diaspora Journal of Mathematics.
3. Annali di Matematica.
4. ANZIAM Journal.
5. Applied Mathematical Modelling.
6. Applied Mathematics Letters.
7. Archiv der Mathematik.
8. Archive of Inequalities and Applications.
9. Australian Journal of Mathematical Analysis and Applications.

10. Communications in Mathematical Analysis.
11. Computers and Mathematics with Applications.
12. Constructive Approximation.
13. CUBO Matematica Educacional.
14. Discrete and Continuous Dynamical Systems.
15. Discrete and Continuous Dynamical Systems, Series B.
16. Discrete Dynamics in Nature and Society.
17. Dynamic Systems and Applications.
18. Dynamics of Continuous, Discrete and Impulsive Systems.
19. Electronic Journal of Differential Equations.
20. Electronic Journal of Qualitative Theory of Differential Equations.
21. Glasnik Matematicki.
22. IEEE Transactions of Automatic Control.
23. IEEE Transactions of Neural Networks.
24. IEEE Transactions of Systems, Man and Cybernetics - Part B.
25. Indian Journal of Pure and Applied Mathematics.
26. International Journal of Applied Mathematics and Statistics.
27. International Journal of Computer Mathematics.

28. International Journal of Evolution Equations.
29. International Journal of Numerical Methods for Heat and Fluid Flow.
30. International Journal of Mathematics and Mathematical Sciences.
31. Iranian Journal of Science and Technology.
32. Journal of Applied Mathematics and Computing.
33. Journal of Approximation Theory.
34. Journal of Computational and Applied Mathematics.
35. Journal of Difference Equations and Applications.
36. Journal of Geometry.
37. Journal of Inequalities in Pure and Applied Mathematics.
38. Journal of Mathematical Analysis and Applications.
39. Journal of Optimization Theory and Applications.
40. Journal of the London Mathematical Society.
41. Linear Algebra and its Applications.
42. Mathematical Inequalities & Applications.
43. Mathematische Nachrichten.
44. Missouri Journal of Mathematical Sciences.
45. Nonlinear Analysis.

46. Nonlinear Analysis: Real World Applications.
47. Nonlinear Dynamics.
48. Proceedings of the Royal Society of Edinburgh.
49. Proceedings Mathematical Sciences.
50. Publicationes Mathematicae Debrecen.
51. Rocky Mountain Journal of Mathematics.
52. SIAM Journal on Control and Optimization.
53. Soochow Journal of Mathematics.
54. Taiwanese Journal of Mathematics.
55. ZAA.
56. ZAMM.

Numbers of Reviewed Papers (last three years)

- 2005: 53 papers
- 2006: 109 papers
- 2007: 117 papers
- 2008: 121 papers
- 2009: 107 papers (until August 31, 2009).

Reviewer for the following Book Publishers

1. Brooks/Cole.
2. Harcourt Academic Press.
3. Houghton Mifflin.
4. John Wiley & Sons.
5. Springer.

2.3 Service to UMR

1. Academic Council (2000–2007).
2. Tenure Committee (2005–2007).
3. Five-Year Program Review Committee, UM/CBHE Review of the Student Design and Experiential Learning Center (2006).
4. Organizer of the “Time Scales Seminar” (2005–2007).
5. Organizer of the “Analysis Seminar” (1998–2001), co-organizer (2002–2006).
6. Textbook Selection Committee for Math 204 (2005).
7. Mathematics and Statistics Graduate Policy Committee (2001–2003, 2006–2007).
8. Mathematics and Statistics Web Page Committee (2001).
9. Student Affairs Committee (2002–2003).
10. Course Coordinator Math 15 (2005–2007).
11. Financial Engineering Association, UMR, faculty member (since 2006).
12. Actuarial Society, UMR, faculty member (since 2007).
13. Mentor for the MU program “Preparing Future Faculty”, Mentee: Don Vaught (excerpt from the official PFF brochure: “The seminars have enlightened me on several issues. My mentor relationships have been terrific, even leading to actual professional work. This has been one of the best programs I ever stumbled into” – Don Vaught), 2004.

14. Initiator of the Mathematics Learning Center (2004–2007), in cooperation with UMR’s LEAD (Learning Enhancement Across Disciplines) program. The MLC is designed to prepare the students for homework, quizzes, and exams, improve their learning skills and understanding, develop teamwork and personal leadership skills, and encourage small-group cooperative/collaborative learning. Attended luncheons on the LEAD program. Designed LEAD posters for Math 15 that were posted throughout the campus.
15. Initiated the use of a Personal Response System in the Mathematics Department. An active member of the “clicker community”. Regularly attended the clicker luncheon series organized by CERTI.
16. Attended the workshop “TA Development Using Case Studies” in Evanston, IL (October 23–24, 2004) and initiated the presentation of case studies for teaching assistants in our department. Conducted several case studies open for all GTAs.
17. Organizer of the student exchange between UMR and Universität Ulm, Ulm, Germany, 2002–2007.
18. Introduced an interdisciplinary course “Financial Mathematics”, designed by myself and Professor Gelles from the Economics & Finance Department. This course is co-listed as Econ 337 and Math 337. Also designed the course “Financial Mathematics II” and taught it.
19. Designed a “Graduate Certificate Program in Financial Mathematics” that was approved and already completed by several students, 2006–2007.

Chapter 3

Teaching

3.1 Classes Taught

- Winter 1988/89: Grader in ‘Calculus I’ (Universität Ulm).
- Summer 1989: Grader in ‘Calculus II’ (Universität Ulm).
- Winter 1989/90: Teaching Assistant in ‘Calculus I’ and ‘Linear Algebra I’ (Universität Ulm).
- Summer 1990: Teaching Assistant in ‘Calculus II’ and ‘Linear Algebra II’ (Universität Ulm).
- Winter 1990/91: Teaching Assistant in ‘Calculus I’ and ‘Linear Algebra I’ (Universität Ulm).
- Summer 1991: Teaching Assistant in ‘Calculus II’ and ‘Linear Algebra II’ (Universität Ulm).
- Fall 1991: Lecturer in ‘College Algebra’ (San Diego State University).
- Spring 91: Lecturer in ‘College Algebra’ (San Diego State University).
- Winter 1992/93: Teaching Assistant in ‘Quantum Structures and Hilbert Space Theory’ (Universität Ulm).
- Summer 1993: Teaching Assistant in ‘Differential Equations II’ (Universität Ulm).
- Fall 1994: Lecturer in ‘Operations Research I’ (Berufsakademie Heidenheim).
- Spring 94: Lecturer in ‘Operations Research II’ (Berufsakademie Heidenheim).

- Winter 1995/96: Assistant Lecturer in ‘Mathematics for Business Students I’, ‘Mathematical Statistics I’, and ‘Applied Statistics for Nutrition Scientists’ (Universität Hohenheim).
- Summer 1996: Assistant Lecturer in ‘Mathematics for Business Students II’, ‘Mathematical Statistics II’, and ‘Financial Mathematics’ (Universität Hohenheim).
- Winter 1996/97: Assistant Lecturer in ‘Mathematics for Business Students I’ and ‘Applied Statistics for Nutrition Scientists’ (Universität Hohenheim).
- Fall 1997: Lecturer in ‘Calculus I’ (San Diego State University).
- Spring 1998: Lecturer in ‘Calculus II’ (San Diego State University).
- Summer 1998: Lecturer in ‘Advanced Calculus I’ and ‘Discrete Mathematics’ (San Diego State University).
- Fall 1998: Lecturer in ‘Matrix Algebra’ and ‘Partial Differential Equations’ (University of Missouri–Rolla).
- Spring 1999: Lecturer in ‘Calculus with Analytic Geometry I’ and ‘Partial Differential Equations’ (University of Missouri–Rolla).
- Fall 1999: Lecturer in ‘Elementary Differential Equations’ and ‘Functional Analysis I’ (University of Missouri–Rolla).
- Spring 2000: Lecturer in ‘Matrix Algebra’ and ‘Functional Analysis II’ (University of Missouri–Rolla).

- Fall 2000: Lecturer in ‘Calculus with Analytic Geometry I’ and ‘Elementary Differential Equations’ (University of Missouri–Rolla).
- Spring 2001: Lecturer in ‘Introduction to Probability and Statistics’ and ‘Introduction to Real Analysis’ (University of Missouri–Rolla).
- Fall 2001: Lecturer in ‘Discrete Mathematics’ and ‘Deterministic Operations Research Models’ (Florida Institute of Technology).
- Spring 2002: Lecturer in ‘Discrete Mathematics’ and ‘Linear Algebra and Differential Equations’ (Florida Institute of Technology).
- Fall 2002: Lecturer in ‘Engineering Statistics’ and ‘Advanced Calculus I’ (University of Missouri–Rolla).
- Spring 2003: Lecturer in ‘Engineering Statistics’ and ‘Advanced Calculus II’ (University of Missouri–Rolla).
- Fall 2003: Lecturer in ‘Elementary Differential Equations’ and ‘Advanced Calculus I’ (University of Missouri–Rolla).
- Spring 2004: Lecturer in ‘Calculus for Engineers II’ and ‘Advanced Calculus II’ (University of Missouri–Rolla).
- Fall 2004: Lecturer in ‘Calculus for Engineers II’ (Course Coordinator) and ‘Partial Differential Equations’ (University of Missouri–Rolla).
- Spring 2005: Lecturer in ‘Calculus for Engineers II’ (Course Coordinator) and ‘Introduction to Real Analysis’ (University of Missouri–Rolla).

- Fall 2005: Lecturer in ‘Calculus for Engineers II’ (Course Coordinator) and ‘Advanced Calculus I’ (University of Missouri–Rolla).
- Spring 2006: Lecturer in ‘Calculus for Engineers II’ (Course Coordinator) and ‘Financial Mathematics I’ (University of Missouri–Rolla).
- Fall 2006: Lecturer in ‘Calculus for Engineers II’ (Course Coordinator) and ‘Financial Mathematics II’ (University of Missouri–Rolla).
- Spring 2007: Lecturer in ‘Calculus for Engineers II’ (Course Coordinator) and ‘Financial Mathematics I’ (University of Missouri–Rolla).
- Fall 2008: Lecturer in ‘Elementary Differential Equations’ and ‘Financial Mathematics II’ (Missouri S&T).
- Spring 2009: Lecturer in ‘Elementary Differential Equations’ and ‘Financial Mathematics I’ (Missouri S&T).
- Fall 2009: Lecturer in ‘Engineering Statistics’ and ‘Financial Mathematics II’ (Missouri S&T).

3.2 Students

Degree Completed

1. Christina Morian (PhD external committee member), March 17, 2000.
2. Cannon Watts (MS committee chair), May 2000.
3. Ben Meyers (MS out-of-department committee member), May 2000.
4. Fanlin Zhu (PhD out-of-department committee member), April 23, 2001.
5. Wenhai Zhang (PhD out-of-department committee member), April 26, 2001.
6. Donald Myers (BA advisor), May 2001.
7. Changlin Sun (PhD out-of-department committee member), July 23, 2001.
8. Bob Metzger (PhD external committee member), November 28, 2001.
9. Dirk Rohmeder (MS committee member), April 15, 2003.
10. Todd Sparks (MS out-of-department committee member), April 16, 2003.
11. Jun Zhou (PhD out-of-department committee member), August 22, 2003.
12. Howard Warth (MS committee chair), May 2004.
13. Murat Adivar (postdoc advisor), Spring 2004.
14. Alexej Kytmanov (PhD committee member), May 2005.
15. Ahmed Usman (MS committee chair), May 2005.

16. Christopher Nnadili (MS out-of-department committee member), November 17, 2005.
17. Adam Panagos (PhD out-of-department committee member), March 13, 2006.
18. Thomas Hudson (OURE advisor, Opportunities for Undergraduates in Research), thesis: “Euler-type boundary value problems in quantum calculus”, May 2006.
19. Thomas Matthews (MS committee chair), thesis: “Ostrowski and Grüss inequalities on time scales”, May 9, 2007.
20. Christian Müttel (MS committee chair), thesis: “The Black–Scholes equation in quantum calculus”, May 9, 2007.
21. Suman Sanyal (PhD advisor): “Stochastic Dynamic Equations on Time Scales”, December 7, 2007.
22. Julius Heim (MS committee chair), thesis: “The dynamic multiplier-accelerator model in economics”, May 12, 2008.
23. Christian Keller (MS committee chair), thesis: “Dynamic equations with piecewise continuous argument”, May 12, 2008.
24. Karl Ulrich (MS committee chair), thesis: “The analogue of the iterated logarithm for quantum difference equations”, May 1, 2009.
25. Nick Wintz (PhD advisor): “The Kalman Filter on Time Scales”, June 1, 2009.

In Progress

1. Howard Warth, PhD research on mathematical biology (since Fall 2004).
2. Nick Wintz, PhD research on stochastic control (since Fall 2004).
3. Thomas Matthews, Phd student (since Spring 2008).
4. Julius Heim, Phd student (since Spring 2009).
5. Thomas Szalapski (BA advisor).

Exchange Students Ulm–Rolla

1. Fall 2001 / Spring 2002: Kathrin Kötting and Florian Rück.
2. Fall 2002 / Spring 2003: Dirk Rohmeder.
3. Fall 2004 / Spring 2005: Patrik Czornik and Matthias Frank.
4. Fall 2005 / Spring 2006: Tim Jensen and Stefan Körner.
5. Fall 2006 / Spring 2007: Thomas Matthews and Christian Müttel.
6. Summer 2007: Lauren Bengston and Jamie Calvert (UMR students in Ulm)
7. Fall 2007 / Spring 2008: Julius Heim and Christian Keller.
8. Summer 2008: John Seiffert (Missouri S&T student in Ulm)
9. Fall 2008 / Spring 2009: Karl Ulrich.
10. Fall 2009 / Spring 2010: Mathias Goeggel.

Chapter 4

Research

4.1 Conferences

1. Herbsttagung Analysis und Zahlentheorie, Colfosco, Italy, September 27 – October 1, 1993 (invited speaker).
2. Studentenkonzferenz Mathematik, Humboldt Universität, Berlin, October 9–10, 1993 (invited speaker).
3. First International Conference on Difference Equations and Applications, San Antonio, Texas, May 25–28, 1994 (invited speaker).
4. Herbsttagung Analysis und Zahlentheorie, Colfosco, Italy, September 26–30, 1994 (invited speaker).
5. Joint Mathematics Meetings, San Francisco, California, January 4–7, 1995, Special Session on “Difference Equations: Theory and Applications” (invited speaker).
6. Second International Conference on Difference Equations and Applications, Veszprém, Hungary, August 7–11, 1995 (invited speaker).
7. DMV Jahrestagung, Ulm, September 18–22, 1995 (invited speaker).
8. Herbsttagung Analysis und Zahlentheorie, Nago, Italy, September 25–29, 1995 (invited speaker).
9. General Inequalities 7, Oberwolfach, Germany, November 1995 (invited speaker).
10. AMS Meeting, Baton Rouge, Louisiana, March 1996 (invited speaker).
11. International Workshop on Difference and Differential Inequalities, Tübitak–Marmara Research Center, Gebze, Turkey, July 3–7, 1996 (main speaker).

12. Second World Congress of Nonlinear Analysts, Athens, Greece, July 10–17, 1996 (invited speaker).
13. Seventh Colloquium on Differential Equations, Plovdiv, Bulgaria, August 1996 (invited speaker).
14. Equadiff 9, Brno, Czech Republic, August 25–29, 1997 (invited speaker).
15. Special Session on “Finite Differences and Functional Equations” at the AMS Meeting #928, Albuquerque, New Mexico, November 8–9, 1997 (invited speaker).
16. Joint Mathematics Meetings, Baltimore, Maryland, January 7–10, 1998, Special Session on “Difference Equations and Applications” (invited speaker).
17. Centennial Celebration, Department of Mathematics and Statistics, University of Nebraska–Lincoln, Lincoln, Nebraska, May 14–16, 1998 (invited speaker).
18. Joint Mathematics Meetings, San Antonio, Texas, January 13–16, 1999, Special Session on “Discrete Models and Difference Equations” (invited speaker).
19. Fourth Mississippi State Conference on Differential Equations and Computational Simulations, Mississippi State University, Starkville, Mississippi, May 21–22, 1999 (invited speaker).
20. The Third International Conference on Dynamic Systems and Applications, Atlanta, Georgia, May 26–29, 1999 (invited speaker).
21. Colloquium for Humboldtians from Illinois, Indiana, Iowa, Missouri, Chicago, Illinois (Palmer House Hilton & University of Chicago Campus), October 1–3, 1999.

22. Southern California Matrix Conference, San Diego, California, November 6, 1999 (invited speaker).
23. ICDEA2K, Fifth International Conference on Difference Equations and Applications, Temuco, Chile, January 3–7, 2000 (invited speaker).
24. San Diego Symposium on Asymptotics and Applied Analysis, San Diego, California, January 10–14, 2000 (invited speaker).
25. Special Session on “Differential Inequalities and Applications” at the AMS Meeting #953 (2000 Spring Central Section Meeting), Notre Dame, Indiana, April 7–9, 2000 (invited speaker).
26. Third World Congress of Nonlinear Analysts, Catania, Sicily, Italy, July 19–26, 2000 (organizer of a Special Session on “Time Scales”, jointly with ONDŘEJ DOŠLÝ).
27. Fargo Preconference Workshop on BVPs and Oscillation Theory of Differential Equations on Measure Chains, Fargo, North Dakota, October 19, 2000 (main speaker).
28. Midwest Differential Equations Conference, Moorhead, Minnesota, October 20–21, 2000 (plenary speaker).
29. Special Session on “Differential Operators and Function Spaces” at the AMS Meeting #960 (2000 Fall Southeastern Section Meeting), Birmingham, Alabama, November 10–12, 2000 (invited speaker).
30. SIAM SEAS Annual Conference, Myrtle Beach, South Carolina, March 16–17, 2001 (organizer of a Special Session on “Dynamic Equations on Time Scales”,

jointly with BILLUR KAYMAKÇALAN).

31. ICDEA2001, Sixth International Conference on Difference Equations and Applications, Augsburg, Germany, July 30 – August 3, 2001 (plenary speaker).
32. Special Session on “Asymptotic Behavior of Solutions of Differential and Difference Equations” at the AMS Meeting #970 (2001 Fall Southeastern Section Meeting), Chattanooga, Tennessee, October 5–6, 2001 (invited speaker).
33. Joint Mathematics Meetings, San Diego, California, January 6–9, 2002 (organizer of a Special Session on “Dynamic Equations on Time Scales”, jointly with BILLUR KAYMAKÇALAN).
34. Special Session on “Dynamic Equations on Time Scales” at the AMS Meeting #975 (2002 Spring Southeastern Section Meeting), Atlanta, Georgia, March 8–10, 2002 (organizer of session, jointly with BILLUR KAYMAKÇALAN).
35. Dynamic Equations on Time Scales and Their Applications, Rocky Mountain Mathematics Consortium, summer school, Laramie, Wyoming, July 8–19, 2002 (one of two featured speakers, jointly with ALLAN PETERSON; each featured speaker gave ten 75-minute presentations).
36. Time Scales Workshop, Dayton, Ohio, September 20–21, 2002 (main speaker).
37. Special Session on “Recent Trend of the Analysis and Computations of Functional Differential Equations” at the AMS Meeting #985 (2003 Spring Central Section Meeting), Bloomington, Indiana, April 4–6, 2003 (invited speaker).
38. The Fourth International Conference on Dynamic Systems and Applications, Atlanta, Georgia, May 21–24, 2003 (organizer of the “Workshop on Time Scales

and Applications”, jointly with JOAN HOFFACKER and BILLUR KAYMAKÇALAN).

39. ICDEA2003, Eighth International Conference on Difference Equations and Applications, Brno, Czech Republic, July 28 – August 1, 2003 (invited speaker).
40. Joint Mathematics Meetings, Phoenix, Arizona, January 7–10, 2004 (organizer of a Special Session on “Time Scales and Applications”, jointly with BILLUR KAYMAKÇALAN and ALLAN PETERSON).
41. Special Session on “Dynamic Equations on Time Scales: Theory and Applications” at the AMS Meeting #996 (2004 Spring Western Section Meeting), University of Southern California, Los Angeles, California, April 3–4, 2004 (invited speaker).
42. Dynamical Systems and Applications, Antalya, Turkey, July 5–10, 2004 (plenary speaker).
43. TA Development Using Case Studies: A Workshop for Faculty, AMS Meeting #1001 (2004 Fall Central Section Meeting), Northwestern University, Evanston, Illinois, October 23–24, 2004.
44. 24th Annual Western Kentucky University Mathematics Symposium, Bowling Green, Kentucky, November 19–20, 2004 (one of two featured speakers).
45. Joint Mathematics Meetings, Atlanta, Georgia, January 5–8, 2005 (organizer of an AMS-SIAM Special Session on “Dynamic Equations on Time Scales”, jointly with BILLUR KAYMAKÇALAN and ALLAN PETERSON).
46. Teaching Renewal Conference, University of Missouri–Columbia, Columbia, Missouri, February 24–26, 2005.

47. Easter Academy on Difference Equations, Special Functions and Applications, AbiTUMath 2005, Abbazia di Novacella, Italy, March 28 – April 1, 2005 (plenary speaker).
48. Joint International Meeting, Mainz, Germany, June 16–19, 2005 (organizer of a Special Session on “Ordinary Differential, Difference, and Dynamic Equations”, jointly with WERNER BALSER and DONALD LUTZ).
49. The First International Workshop on Dynamic Equations on Time Scales, Istanbul, Turkey, June 27 – July 1, 2005 (organizer of conference, jointly with OKAY ÇELEBI and MEHMET ÜNAL; plenary speaker).
50. International Conference on Difference Equations, Special Functions and Applications, ICDEA2005, Tenth International Conference on Difference Equations and Applications, Munich, Germany, July 25–30, 2005 (plenary speaker).
51. Special Session on “Dynamic Equations on Time Scales” at the AMS Meeting #1011 (2005 Fall Central Section Meeting), University of Nebraska–Lincoln, Lincoln, Nebraska, October 21–23, 2005 (invited speaker).
52. Joint Mathematics Meetings, San Antonio, Texas, January 12–15, 2006 (organizer of a Special Session on “Dynamic Equations with Applications”, jointly with ALLAN PETERSON).
53. Web Conference on Feedback Devices and Effective Pedagogy, University of Missouri–Rolla, Rolla, Missouri, February 2, 2006.
54. Marrakesh World Conference on Differential Equations and Applications, Marrakesh, Morocco, June 15–20, 2006 (plenary speaker).

55. ICDEA2006, Eleventh International Conference on Difference Equations and Applications, Kyoto, Japan, July 24–28, 2006 (main speaker).
56. Joint Mathematics Meetings, New Orleans, Louisiana, January 5–8, 2007 (organizer of a Special Session on “Dynamic Equations with Applications”, jointly with ALLAN PETERSON).
57. Reaching and Teaching the Digital Native: The Digital Campus Institute @ Missouri, Columbia, Missouri, April 2–4, 2007.
58. ICDEA2007, Twelfth International Conference on Difference Equations and Applications, Lisbon, Portugal, July 23–27, 2007 (invited speaker).
59. Conference in Honor of Allan Peterson, Abbazia di Novacella, Italy, July 28 – August 2, 2007 (plenary speaker).
60. ICDEA2008, Fourteenth International Conference on Difference Equations and Applications, Istanbul, Turkey, July 21–25, 2008 (organizer).
61. Symposium on Biomathematics and Ecology Education and Research, Normal, Illinois, September 6–7, 2008 (plenary speaker).
62. SEARCDE28, 28th Annual Southeastern-Atlantic Regional Conference on Differential Equations, Little Rock, Arkansas, October 10–11, 2008 (plenary speaker).
63. Recent Developments in Dynamic Equations on Time Scales, Rocky Mountain Mathematics Consortium, Laramie, Wyoming, June 8–19, 2009 (plenary speaker).
64. Equadiff 12, Brno, Czech Republic, July 20–24, 2009 (main speaker).

4.2 Colloquium Talks

1. San Diego State University, San Diego, California, September 1, 1993 (An Oscillation Theorem for Sturm–Liouville Difference Equations with Separated Boundary Conditions).
2. Masaryk University Brno, Brno, Czech Republic, November 21, 1994 (Disconjugacy of Symplectic Systems).
3. San Diego State University, San Diego, California, August 30, 1995 (An Analog of the Sturm–Liouville Theory for Difference Equations).
4. Masaryk University Brno, Brno, Czech Republic, March 11, 1996 (Discrete Sturmian Theory).
5. Mississippi State University, Starkville, Mississippi, April 4, 1996 (Discrete Sturmian Theory).
6. Universität Ulm (Analysis Seminar), Ulm, Germany, June 10, 1996 (Diskrete Sturmsche Theorie).
7. Poznan University of Technology, Poznan, Poland, September 25, 1996 (Discrete Sturmian Theory).
8. Martin-Luther-Universität Halle–Wittenberg, Halle, Germany, November 28, 1996 (Diskrete Sturmsche Theorie).
9. San Diego State University, San Diego, California, September 19, 1997 (Time Scales — A Unified Approach to Continuous and Discrete Calculus).

10. University of Missouri–Columbia, Columbia, Missouri, November 14, 1997 (Quadratic Functionals on Time Scales).
11. University of Missouri–Rolla, Rolla, Missouri, February 9, 1998 (Quadratic Functionals in Discrete Variational Analysis).
12. Boise State University, Boise, Idaho, February 23, 1998 (Quadratic Functionals in Discrete Variational Analysis).
13. University of Nebraska–Omaha, Omaha, Nebraska, February 27, 1998 (Quadratic Functionals in Discrete Variational Analysis).
14. San Diego State University, San Diego, California, October 9, 1998 (Asymptotic Behavior of Discretized Eigenvalue Problems).
15. San Diego State University, San Diego, California, June 17, 1999 (The Discrete Prüfer Transformation).
16. University of Nebraska–Omaha, Omaha, Nebraska, March 30, 2000 (Dynamic Equations on Time Scales).
17. Illinois Wesleyan University, Normal, Illinois, April 28, 2000 (Dynamic Equations and Inequalities on Time Scales).
18. Universität Ulm (Analysis Seminar), Ulm, Germany, June 5, 2000 (Lineare dynamische Systeme auf Time Scales).
19. Masaryk University Brno, Brno, Czech Republic, June 21, 2000 (Linear Dynamic Equations on Time Scales).

20. University of Missouri–Rolla (Sigma Xi Seminar), Rolla, Missouri, October 11, 2000 (Unifying Continuous and Discrete Calculus).
21. University of Missouri–Columbia (PDE Seminar), Columbia, Missouri, November 2, 2000 (Laplace Transform for Time Scales).
22. Florida Institute of Technology, Melbourne, Florida, February 22, 2001 (Laplace Transform and Z-Transform: Unification and Extension).
23. Georgia Southern University, Statesboro, Georgia, March 19, 2001 (Laplace Transform and Z-Transform: Unification and Extension).
24. Universität Ulm, Ulm, Germany, July 2, 2001 (Laplace und Z-Transformation).
25. Auburn University, Auburn, Alabama, December 7, 2001 (Continuous and Discrete Oscillation).
26. Universität Ulm, Ulm, Germany, May 14, 2002 (Einige dynamische Gleichungen).
27. Atilim University (Ankara Seminar), Ankara, Turkey, June 1, 2002 (Some Dynamic Equations).
28. Middle East Technical University (Dynamic Equations Day), Ankara, Turkey, June 11, 2002 (The Regressive Vector Space).
29. Atilim University, Ankara, Turkey, January 8, 2003 (The Laplace Transform for Dynamic Equations).
30. San Diego State University, San Diego, California, March 27, 2003 (Laplace Transform and Z-Transform — Unified).

31. Universität Ulm (Analysis Seminar), Ulm, Germany, June 23, 2003 (Oscillation of Delay Dynamic Equations).
32. University of Nebraska–Lincoln, Lincoln, Nebraska, September 25, 2003 (Oscillation Criteria for First Order Delay Dynamic Equations).
33. Truman State University, Kirksville, Missouri, February 10, 2004 (Dynamic Equations on Time Scales).
34. Portland State University, Portland, Oregon, March 12, 2004 (Dynamic Equations on Time Scales).
35. University of New South Wales, Sydney, Australia, May 25, 2004 (Dynamic Equations on Time Scales).
36. Katholische Universität Eichstätt, Eichstätt, Germany, December 21, 2005 (The Lapace Transform for Dynamic Equations on Time Scales).
37. Marshall University, Huntington, West Virginia, April 7, 2006 (Unified Transform Methods on Time Scales).
38. Izmir University of Economics, Izmir, Turkey, May 23, 2006 (Unified Transform Methods on Time Scales).
39. Middle East Technical University (Ankara Seminar), Ankara, Turkey, May 27, 2006 (Unified Transform Methods on Time Scales).
40. San Diego State University, San Diego, California, May 3, 2007 (Logistic Differential, Difference, and Dynamic Equations).

41. Universität Ulm, Ulm, Germany, June 5, 2007 (Logistic Differential, Difference, and Dynamic Equations).
42. Dicle University, Diyarbakır, Turkey, July 12, 2007 (Dynamic Equations on Time Scales).
43. University of Nebraska–Lincoln, Lincoln, Nebraska, April 25, 2008 (Logistic Differential, Difference, and Dynamic Equations).
44. University of Missouri–Kansas City, Kansas City, Missouri, April 17, 2009 (Kneser’s Theorem in Quantum Calculus).
45. Osmangazi University, Eskişehir, Turkey, August 7, 2009 (Introduction to Dynamic Equations on Time Scales).

4.3 Seminar Talks

1. An introduction to time scales, Analysis Seminar, UMR, September 2, 1998.
2. Asymptotic behavior of discretized eigenvalue problems, Analysis Seminar, UMR, October 14, 1998.
3. Some introductory remarks on Lyapunov inequalities for time scales, Analysis Seminar, UMR, December 2, 1998.
4. Discrete symplectic and trigonometric systems, Analysis Seminar, UMR, February 3, 1999.
5. The discrete Prüfer transformation, Analysis Seminar, UMR, September 29, 1999.
6. The Prüfer transformation for time scales, Analysis Seminar, UMR, October 13, 1999.
7. Positivity of block tridiagonal matrices, Analysis Seminar, UMR, November 10, 1999.
8. First and second order dynamic equations on time scales, Analysis Seminar, UMR, September 27, 2000.
9. Some more characterizations of Moore–Penrose inverses and their applications, Statistics Seminar, UMR, October 24, 2000.
10. Laplace transform and Z-transform: Unification and extension, Analysis Seminar, UMR, January 30, 2001.

11. First and second order linear dynamic equations on time scales, Graduate Student Seminar, FIT, September 20, 2001.
12. Discrete symplectic systems, Analysis Seminar, FIT, October 16, 2001.
13. Formulas of Bendixson and Alekseev for difference equations, Analysis Seminar, FIT, February 26, 2002.
14. The regressive vector space, Analysis Seminar, UMR, October 1, 2002.
15. Taking derivatives differently, Graduate Student Seminar, UMR, January 29, 2003.
16. Some oscillation criteria for first order dynamic equations, Analysis Seminar, UMR, September 10, 2003.
17. Taking derivatives differently, MAA Student Seminar, UMR, February 9, 2004.
18. What's the derivative of t^2 ?, Mathematics and Statistics Undergraduate Party, UMR, April 6, 2004.
19. Oscillation results for q -difference equations, Analysis Seminar, UMR, September 22, 2004.
20. An introduction to quantum calculus, MAA Student Seminar, UMR, November 10, 2004.
21. Participant of the Faculty Panel Discussion during International Education Week, UMR, November 18, 2004.
22. What is one over four in quantum calculus?, Analysis Seminar, UMR, January 19, 2005.

23. Case studies for today's classroom, "The quicksand of problem four", Graduate Student Seminar, UMR, March 21, 2005.
24. Fibonacci numbers and the tower of Hanoi, State Math Team Practice, May 21, 2005.
25. Case studies for today's classroom, "Seeking points", Graduate Student Seminar, UMR, September 19, 2005.
26. Using binomial trees to price options, MAA Student Seminar, UMR, October 12, 2005.
27. Oscillation and nonoscillation of forced second order dynamic equations, Analysis Seminar, UMR, October 19, 2005.
28. Running a successful collaborative Learning Center for your course, New Faculty Teaching Scholar Program, UMR, November 9, 2005.
29. Oscillation of delay differential equations, Time Scales Seminar, UMR, February 2, 2006.
30. Case studies for today's classroom, "Popson's dilemma", Graduate Student Seminar, UMR, February 6, 2006.
31. Oscillation of delay difference equations, Time Scales Seminar, UMR, February 7, 2006.
32. Teaching and research in mathematics, Intensive English Program Seminar, UMR, April 25, 2006.
33. The Math 15 LEAD Program, LEAD Program, UMR, August 29, 2006.

34. First and second order forced dynamic equations, Time Scales Seminar, UMR, August 31, 2006.
35. Running a successful collaborative Learning Center for your course, New Faculty Teaching Scholar Program, UMR, October 11, 2006.
36. Fibonacci numbers and the tower of Hanoi, Math 1, UMR, October 12, 2006.
37. Research in mathematics, Global Research Seminar, UMR, October 26, 2006.
38. \LaTeX , vi-editor, unix, and time scales, Time Scales Seminar, UMR, November 2, 2006.
39. The Cushing–Henson conjectures, Analysis Seminar, UMR, November 8, 2006.
40. The Math 15 LEAD Program, Talk for UMSL Delegation visiting UMR, December 5, 2006.
41. Five most important concepts to start time scales research, Time Scales Seminar, UMR, September 19, 2007.
42. Derivation and solution of the Black–Scholes equation, Financial Engineering Association, UMR, September 25, 2007.

4.4 Coauthors

1. MURAT ADIVAR (Izmir University of Economics, Turkey)
2. RAVI AGARWAL (Florida Insitute of Technology)
3. CALVIN AHLBRANDT (University of Missouri–Columbia)
4. FAYSAL AKIN (Dicle University, Turkey)
5. ELVAN AKIN-BOHNER (University of Missouri–Rolla)
6. TAYEB BENOUAZ (University of Thlemcen, Algeria)
7. LI BI (North East Normal University, China)
8. SIGRUN BODINE (University of Puget Sound)
9. JOSÉ CASTILLO (San Diego State University)
10. WING-SUM CHEUNG (University of Hong Kong, Hong Kong)
11. STEVEN CLARK (University of Missouri–Rolla)
12. SMAÏL DJEBALI (E.N.S. Algiers, Algeria)
13. ALEXANDER DOMOSHNITSKY (The College of Judea and Samaria, Israel)
14. ONDŘEJ DOŠLÝ (Masaryk University Brno, Czech Republic)
15. PAUL ELOE (University of Dayton)
16. LYNN ERBE (University of Nebraska–Lincoln)
17. MENG FAN (North East Normal University, China)

18. YAKOV GOLTSER (The College of Judea and Samaria, Israel)
19. SAID GRACE (University of Cairo, Egypt)
20. MEIHONG GUAN (University of Science and Technology Beijing, China)
21. GUSEIN GUSEINOV (Atılım University, Turkey)
22. ROGER HERING (University of Missouri–Rolla)
23. ROMAN HILSCHER (Masaryk University Brno, Czech Republic)
24. THOMAS HUDSON (University of Missouri–Rolla)
25. STEFEN HUI (San Diego State University)
26. BASAK KARPUZ (University of Kocatepe, Turkey)
27. BILLUR KAYMAKÇALAN (Georgia Southern University)
28. WERNER KRATZ (Universität Ulm, Germany)
29. V. LAKSHIMKANTHAM (Florida Institute of Technology)
30. WAN-TONG LI (Lanzhou University, China)
31. DONALD LUTZ (San Diego State University)
32. HUA LUO (Northwestern Normal University, China)
33. ANATOLIÏ ANDREEVICH MARTYNYUK (National Academy of Sciences, Ukraine)
34. THOMAS MATTHEWS (University of Missouri–Rolla)
35. TOUFIK MOUSSAOUI (E.N.S. Algiers, Algeria)

36. ÖZKAN ÖCALAN (University of Kocatepe, Turkey)
37. DONAL O'REGAN (National University of Ireland, Ireland)
38. ALLAN PETERSON (University of Nebraska–Lincoln)
39. PAVEL ŘEHÁK (Masaryk University Brno, Czech Republic)
40. JERRY RIDENHOUR (Utah State University, Logan)
41. SAMIR SAKER (Mansoura University, Egypt)
42. SUMAN SANYAL (University of Missouri–Rolla, USA)
43. STEVO STEVIĆ (Serbian Academy of Sciences, Serbia)
44. VELI SHAKHMUROV (Istanbul University, Turkey)
45. CHRISTOPHER TISDELL (University of New South Wales, Australia)
46. MEHMET ÜNAL (Bahçeşehir University, Turkey)
47. TAMMY VOEPEL (Southern Illinois University)
48. HOWARD WARTH (University of Missouri–Rolla)
49. NICK WINTZ (University of Missouri–Rolla, USA)
50. PATRICIA WONG (Nanyang Technological University, Singapore)
51. JIMIN ZHANG (North East Normal University, China)
52. LIANCUN ZHENG (University of Science and Technology Beijing, China)
53. YAO ZHENG (Renmin University of China, China)

4.5 Invited Speakers

1. Professor ALLAN PETERSON, University of Nebraska–Lincoln, Lincoln, Nebraska: Colloquium Talk at UMR on September 27, 1998.
2. Professor PAUL ELOE, University of Dayton, Dayton, Ohio: Colloquium Talk at UMR on March 3, 1999.
3. Professor DONALD LUTZ, San Diego State University, San Diego, California: Colloquium Talk at UMR on March 5, 1999.
4. Professor ONDREJ DOŠLÝ, Masaryk University, Brno, Czech Republic: Colloquium Talk at UMR on May 12, 1999.
5. Professor WERNER KRATZ, University of Ulm, Ulm, Germany: Colloquium Talk at UMR on September 27, 1999.
6. Professor BILLÛR KAYMAKÇALAN, Middle East Technical University, Ankara, Turkey: Colloquium Talk at UMR on March 1, 2000.
7. Professor SABER ELAYDI, Trinity University, San Antonio, Texas: Colloquium Talk at UMR on May 1, 2000.
8. Professor RAVI AGARWAL, National University Singapore, Singapore: Colloquium Talk at UMR on May 11, 2000.
9. Professor JOSÉ CASTILLO, San Diego State University, San Diego, California: Colloquium Talk at UMR on October 5, 2000.
10. Professor STEFAN HILGER, Catholic University Eichstätt, Eichstätt, Germany: Colloquium Talk at UMR on October 25, 2000.

11. Professor RAVI AGARWAL, National University Singapore, Singapore: Colloquium Talk at UMR on December 6, 2000.
12. Professor DONALD LUTZ, San Diego State University, San Diego, California: Colloquium Talk at UMR on May 9, 2001.
13. Professor WERNER KRATZ, University of Ulm, Ulm, Germany: Colloquium Talk at FIT on September 27, 2001.
14. Professor ONDREJ DOŠLÝ, Masaryk University, Brno, Czech Republic: Colloquium Talk at FIT on April 25, 2002.
15. Professor CALVIN AHLBRANDT, University of Missouri–Columbia, Columbia, Missouri: Colloquium Talk at UMR on November 6, 2002.
16. Professor WERNER KRATZ, University of Ulm, Ulm, Germany: Colloquium Talk at UMR on November 8, 2002.
17. Professor GARY SAMPSON, Auburn University, Auburn, Alabama: Colloquium Talk at UMR on April 11, 2003.
18. Professor DONALD LUTZ, San Diego State University, San Diego, California: Colloquium Talk at UMR on November 21, 2003.
19. Professor LYNN ERBE, University of Nebraska–Lincoln, Lincoln, Nebraska: Colloquium Talk at UMR on February 13, 2004.
20. Professor MURAT ADIVAR, Izmir University of Economics, Izmir, Turkey: Colloquium Talk at UMR on February 18, 2004.

21. Professor JOHNNY HENDERSON, Baylor University, Waco, Texas: Colloquium Talk at UMR on March 5, 2004.
22. Professor QIN SHENG, University of Dayton, Dayton, Ohio: Colloquium Talk at UMR on March 22, 2004.
23. Professor ANDREAS RUFFING, Technical University Munich, Munich, Germany: Colloquium Talk at UMR on April 9, 2004.
24. Professor MEHMET ÜNAL, Bahçeşehir University, Istanbul, Turkey: Colloquium Talk at UMR on September 15, 2004.
25. Professor MAREK ELZANOWSKI, Portland State University, Portland, Oregon: Colloquium Talk at UMR on October 29, 2004.
26. Professor ALLAN PETERSON, University of Nebraska–Lincoln, Lincoln, Nebraska: Colloquium Talk at UMR on April 8, 2005.
27. Professor LANCE LITTLEJOHN, Utah State University, Logan, Utah: Colloquium Talk at UMR on May 6, 2005.
28. Professor VALERY GAIKO, Belarus State University, Minsk, Belarus: Colloquium Talk at UMR on May 9, 2005.
29. Professor RICHARD DEVAULT, Northwestern State University Louisiana, Natchitoches, Louisiana: Colloquium Talk at UMR on October 28, 2005.
30. Professor TONY ZETTL, Northern Illinois University, DeKalb, Illinois: Colloquium Talk at UMR on December 2, 2005.

31. Professor IOANNIS STAVROULAKIS, University of Ioannina, Ioannina, Greece: Colloquium Talk at UMR on January 20, 2006.
32. Professor BONITA LAWRENCE, Marshall University, Huntington, West Virginia: Colloquium Talk at UMR on October 13, 2006.
33. Professor KAMEL REKAB, University of Missouri–Kansas City, Kansas City, Missouri: Colloquium Talk at UMR on April 27, 2007.
34. Professor ROMAN HILSCHER, Masaryk University, Brno, Czech Republic: Colloquium Talk at UMR on August 31, 2007.
35. Professor YOUSSEF RAFFOUL, University of Dayton, Dayton, Ohio: Colloquium Talk at UMR on October 12, 2007.
36. Professor MARK DUNSTER, San Diego State University, San Diego, California: Colloquium Talk at UMR on October 19, 2007.
37. Professor LIANCUN ZHENG, University of Science and Technology Beijing, Beijing, China: Colloquium Talk at UMR on November 16, 2007.

4.6 Publication List

Theses

1. M. Bohner. The brain state in a convex body neural model. Master's thesis, San Diego State University, 1992.
2. M. Bohner. Ein Oszillationssatz für Sturm-Liouvillesche Eigenwertprobleme. Master's thesis, Universität Ulm, 1993.
3. M. Bohner. *Zur Positivität diskreter quadratischer Funktionale*. PhD thesis, Universität Ulm, 1995. English Edition: On positivity of discrete quadratic functionals.

Books

4. M. Bohner and A. Peterson. *Dynamic Equations on Time Scales: An Introduction with Applications*. Birkhäuser, Boston, 2001.
5. M. Bohner and A. Peterson. *Advances in Dynamic Equations on Time Scales*. Birkhäuser, Boston, 2003.
6. R. Agarwal, M. Bohner, and W.-T. Li. *Nonoscillation and Oscillation Theory for Functional Differential Equations*. Monographs and Textbooks in Pure and Applied Mathematics. Marcel Dekker, Inc., 2004.
7. R. Agarwal, M. Bohner, S. Grace, and D. O'Regan. *Discrete Oscillation Theory*. Hindawi Publishing Corporation, 2005.

Special Issues

8. R. P. Agarwal and M. Bohner, editors. *Continuous and Discrete Hamiltonian Systems, special issue of Dynam. Systems Appl.*, volume 8 (3-4), 1999.
9. R. P. Agarwal, M. Bohner, and D. O'Regan, editors. *Dynamic Equations on Time Scales, special issue of J. Comput. Appl. Math.*, volume 141 (1-2), 2002.
10. M. Bohner and J. Henderson, editors. *Special issue dedicated to Professor Peterson's 60th birthday, J. Differ. Equations Appl.*, volume 8 (9), 2002. Part I.
11. M. Bohner and J. Henderson, editors. *Special issue dedicated to Professor Peterson's 60th birthday, J. Differ. Equations Appl.*, volume 8 (10), 2002. Part II.
12. M. Bohner and J. Henderson, editors. *Special issue dedicated to Professor Peterson's 60th birthday, J. Differ. Equations Appl.*, volume 8 (11), 2002. Part III.
13. M. Bohner and J. Henderson, editors. *Special issue dedicated to Professor Peterson's 60th birthday, J. Differ. Equations Appl.*, volume 9 (1), 2003. Part IV.
14. M. Bohner and B. Kaymakçalan, editors. *Dynamic Equations on Time Scales, special issue of Dynam. Systems Appl.*, volume 12 (1-2), 2003.
15. R. P. Agarwal, M. Bohner, and D. O'Regan, editors. *Advances in Difference Equations IV, special issue of Comput. Math. Applic.*, volume 45 (6-9), 2003.

16. M. Bohner, J. Hoffacker, and B. Kaymakçalan, editors. *Dynamic Equations on Time Scales, special issue of Dynam. Systems Appl.*, volume 13, 2004.
17. M. Bohner, O. Çelebi, and M. Ünal, editors. *Abstract Book of the First International Workshop on Dynamic Equations on Time Scales*, Istanbul, Turkey, 27 June – 1 July 2005.
18. M. Bohner and A. Peterson, editors. *Dynamic Equations and Applications, special issue of Adv. Difference Equ.*, volume 2006, 2006.

Surveys

19. R. Agarwal, C. Ahlbrandt, M. Bohner, and A. Peterson. Discrete linear Hamiltonian systems: A survey. *Dynam. Systems Appl.*, 8(3-4):307–333, 1999. Special Issue on “Discrete and Continuous Hamiltonian Systems”, edited by R. P. Agarwal and M. Bohner.
20. M. Bohner and A. Peterson. A survey of exponential functions on time scales. *Cubo Mat. Educ.*, 3(2):285–301, 2001.
21. R. Agarwal, M. Bohner, and A. Peterson. Inequalities on time scales: A survey. *Math. Inequal. Appl.*, 4(4):535–557, 2001.
22. R. P. Agarwal, M. Bohner, D. O’Regan, and A. Peterson. Dynamic equations on time scales: A survey. *J. Comput. Appl. Math.*, 141(1-2):1–26, 2002. Special Issue on “Dynamic Equations on Time Scales”, edited by R. P. Agarwal, M. Bohner, and D. O’Regan. Preprint in Ulmer Seminare 5.

Book Reviews, Dedications

23. M. Bohner. Discrete Hamiltonian Systems: Difference Equations, Continued Fractions, and Riccati Equations (by C. Ahlbrandt and A. Peterson). *J. Differ. Equations Appl.*, 5(3):313–316, 1999.
24. M. Bohner and J. Henderson. Dedication to Professor Allan Peterson. *J. Difference Equ. Appl.*, 8(9):761–764, 2002.
25. M. Bohner. Oscillation Theory for Second Order Dynamic Equations (by R. Agarwal, S. Grace, and D. O’Regan). *SIAM Rev.*, 46(4):748–751, 2004.
26. H. Kielhöfer. In memory of Bernd Aulbach (1947–2005). In *Proceedings of the Eighth International Conference on Difference Equations and Applications*, pages v–vii. Chapman & Hall/CRC, Boca Raton, FL, 2005. Translated by Martin Bohner.
27. M. Bohner and A. Peterson. Editorial, Special Issue on Dynamic Equations with Applications. *Adv. Difference Equ.*, 2006:1, Article ID 83968, 2006.

Chapters in Books

28. M. Bohner, G. Guseinov, and A. Peterson. Chapter 1: Introduction to the time scales calculus. In M. Bohner and A. Peterson, editors, *Advances in Dynamic Equations on Time Scales*, pages 1–15. Birkhäuser, Boston, 2003.
29. E. Akin-Bohner and M. Bohner. Chapter 2: Some dynamic equations. In M. Bohner and A. Peterson, editors, *Advances in Dynamic Equations on Time Scales*, pages 17–46. Birkhäuser, Boston, 2003.

30. M. Bohner and G. Guseinov. Chapter 5: Riemann and Lebesgue integration. In M. Bohner and A. Peterson, editors, *Advances in Dynamic Equations on Time Scales*, pages 117–163. Birkhäuser, Boston, 2003.
31. R. P. Agarwal, M. Bohner, and D. O'Regan. Chapter 9: Boundary value problems on infinite intervals: A topological approach. In M. Bohner and A. Peterson, editors, *Advances in Dynamic Equations on Time Scales*, pages 275–291. Birkhäuser, Boston, 2003.
32. R. P. Agarwal, M. Bohner, and P. Řehák. Half-linear dynamic equations: A survey. In *Nonlinear Analysis and Applications*, pages 1–58. Kluwer Academic Publishers, Dordrecht, 2003.

Refereed Conference Proceedings

33. M. Bohner. Controllability and disconjugacy for linear Hamiltonian difference systems. In S. Elaydi, J. Graef, G. Ladas, and A. Peterson, editors, *Conference Proceedings of the First International Conference on Difference Equations*, pages 65–77, San Antonio, 1995. Gordon and Breach.
34. M. Bohner. Inhomogeneous discrete variational problems. In S. Elaydi, I. Györi, and G. Ladas, editors, *Conference Proceedings of the Second International Conference on Difference Equations (Veszprém, 1995)*, pages 89–97, Amsterdam, 1997. Gordon and Breach.
35. M. Bohner. Positive definiteness of discrete quadratic functionals. In C. Bandle, editor, *General Inequalities, 7 (Oberwolfach, 1995)*, volume 123 of *Internat. Ser. Numer. Math.*, pages 55–60, Basel, 1997. Birkhäuser.

36. M. Bohner and O. Došlý. Trigonometric systems in oscillation theory of difference equations. In G. S. Ladde, N. G. Medhin, and M. Sambandham, editors, *Proceedings of Dynamic Systems and Applications (Atlanta, GA, 1999)*, volume 3, pages 99–104, Atlanta, 2001. Dynamic publishers.
37. S. Bodine, M. Bohner, and D. A. Lutz. Asymptotic behavior of solutions of dynamic equations. In *Sovremennyye problemy matematiki. Fundamental'nye napravleniya*, pages 30–39. Akad. Nauk SSSR Vsesoyuz. Inst. Nauchn. i Tekhn. Inform., Moscow, 2003. In Russian. Translation in *J. Math. Sci. (New York)* 124 (4): 5110–5118 (2004).
38. E. Akın-Bohner and M. Bohner. Exponential functions and Laplace transforms for alpha derivatives. In B. Aulbach, S. Elaydi, and G. Ladas, editors, *Proceedings of the Sixth International Conference on Difference Equations*, pages 231–237, Boca Raton, FL, 2004. CRC.

Journals

39. M. Bohner and S. Hui. Brain state in a convex body. *IEEE Trans. Neural Networks*, 6(5):1053–1060, 1995.
40. M. Bohner. An oscillation theorem for a Sturm–Liouville eigenvalue problem. *Math. Nachr.*, 182:67–72, 1996.
41. M. Bohner. Linear Hamiltonian difference systems: disconjugacy and Jacobi-type conditions. *J. Math. Anal. Appl.*, 199(3):804–826, 1996.
42. M. Bohner. On disconjugacy for Sturm–Liouville difference equations. *J. Differ. Equations Appl.*, 2(2):227–237, 1996.

43. M. Bohner. Riccati matrix difference equations and linear Hamiltonian difference systems. *Dynam. Contin. Discrete Impuls. Systems*, 2(2):147–159, 1996.
44. M. Bohner. Symplectic systems and related discrete quadratic functionals. *Facta Univ. Ser. Math. Inform.*, 12:143–156, 1997.
45. M. Bohner and O. Došlý. Disconjugacy and transformations for symplectic systems. *Rocky Mountain J. Math.*, 27(3):707–743, 1997.
46. R. P. Agarwal and M. Bohner. Quadratic functionals for second order matrix equations on time scales. *Nonlinear Anal.*, 33(7):675–692, 1998.
47. M. Bohner. Asymptotic behavior of discretized Sturm–Liouville eigenvalue problems. *J. Differ. Equations Appl.*, 3:289–295, 1998.
48. M. Bohner. Discrete Sturmian theory. *Math. Inequal. Appl.*, 1(3):375–383, 1998. Preprint in Ulmer Seminare 1.
49. M. Bohner. Discrete linear Hamiltonian eigenvalue problems. *Comput. Math. Appl.*, 36(10-12):179–192, 1998.
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4.7 Known Citations

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[4]	301	Scopus	Bohner, Peterson
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4.8 Further Information

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