

Brief Bio: Sylvia Wiegand

August 31 2006

Department of Mathematics and Statistics

University of Nebraska-Lincoln

Lincoln, NE 68588-0130

Email: swiegand@math.unl.edu

Telephone : 402-472-7248 (O) 402-476-7260 (h) 402-472-8466 (fax)

WEB: <http://www.math.unl.edu/~swiegand>**Date of Birth:** March 8, 1945**Education:**

1972	PhD (Mathematics)	University of Wisconsin
1967	MS (Mathematics)	University of Washington
1966	AB (Mathematics)	Bryn Mawr College

Thesis Advisor: L. S. Levy

Professional Experience:

1972-present	Instructor to Professor	University of Nebraska
2002-2003	Visiting Scientist	National Science Foundation
Fall 1997	Visiting Professor	Michigan State University
1992-3,98	Visiting Professor	Purdue University

Specialization: Commutative Algebra, Ring Theory**Honors:**

1997-8, 2006-7	Univ. of Nebraska	Faculty Development Leave
Feb. 2001	<i>Lincoln Women Sports/Fitness</i>	Community achiever
April 2000	Chancellor's Commission on the Status of Women award, UNL	
1999	<i>Lincoln Women of Achievement</i>	Subject of one chapter
1998-9	Newspaper Biographical Articles	Lincoln Jour-Star, Daily Nebraskan
1998	<i>Notable Women in Mathematics</i>	Subject of one chapter
1992-3	National Science Foundation	Visiting Professorship for Women
Oct. 1991	American Mathematical Society	Invited Hour Address
1966-71	National Science Foundation	NSF Graduate Fellow
1966	Woodrow Wilson Foundation	Honorary Fellow

Some professional service :

1997-9	AWM	President
2006	Amer. Math. Soc.	V-P Candidate
2005	AMS Fall Sectional, Lincoln	Local Organizer, Co-org. Spec. Sess.
2005-2008	AMS	CAFTES Committee
2005-2008	MAA	Science Policy Committee
2002-5, 2005-9	MAA	Coord. Council on Awards
2004-2006	MAA Joint meetings	2005-2007 Prog. Comm.
2000-2001	AWM	Nominating Committee
1999-2006	UNL Conference Undergraduate	Women Assistance/advisor
2001-02,2005-	Dept. Colloquium	Chair

2002,2003-1999-2000	Dept. Research Advisory Climate for Engineering	Committee Committee Co-chair, UNL
1993-97,98-9	Mentor for new faculty at UNL	
1999-	Project NeXt	consultant
1997-2000	AMS	Nominating Committee
1994-7	AMS	Council Member-at-Large
1994-2000	AMS	Meetings & Conferences (COMC)
1994-7	AMS	COMC Chair
1994-97	AMS Council	Rep. to Canadian Math. Soc.
2002	ICM, Beijing	Co-org, Women in math panel
2001	Fez, Morocco, meeting	Co-organizer
1997-2001	Canadian Math. Society	Mem-at-Large, Board of Directors
1998-1999	Canadian Math. Society	Task Force on Communication
1998	ICM, Berlin	Co-org, Women in math panel

Ph.D. Students:

Aihua Li (December, 1994)
 Serpil Saydam (December, 1998)
 Meral Arnavut (August 2002)
 Melissa Luckas (current)
 Christina Eubanks-Turner (current)

Papers Presented at Professional Meetings (recent)

- [2007] Invited speaker (i) North Carolina AMS session, April (ii) University of Connecticut conference, June.
- [2006] Invited speaker (i) Special session AMS annual meeting, San Antonio TX, January. (ii) Keynote speaker, Sonya Kovalesky Days program for high school girls, Auburn University at Montgomery, Alabama, February. (iii) Special session, AMS sectional, invited 20-minute talk, Notre Dame, April. (iv) Cortona Italy commutative algebra conference, invited 20-minute talk, June.
- [2005] Invited speaker (i) AWM panel discussion on mentoring, AMS annual meeting, Atlanta GA, January. (ii) Nebraska Women's conference, Lincoln, February (presented information on NSF and AWM) (iii) Commutative algebra presentation for prospective graduate students, Department recruiting weekend, Lincoln, February. (iv) AMS-DMS joint meeting Mainz Germany, special session, invited 20-minute talk, June. (v) Special session, AMS Fall sectional, invited 20-minute talk, Eugene OR, November.
- [2004] Invited speaker: (i) AMS special session, Tallahassee FL, March. (ii) Commutative Algebra conference, Cortona Italy, June. (iii) Commutative algebra conference, Graz Austria, September (iv) Co-organizer and speaker, AMS Mentoring Workshop, Tucson AZ, December.
- [2003] Invited speaker: (i) Commutative Algebra conference, Lisbon Portugal June 2003 (support offered by organizers); (ii) Orono Maine Algebra and Number Theory conference, October 2003 (informal talk on women in mathematics).

Editorial, Refereeing and Reviewing Activities (last 8 years):

2005-2008	AMS Electronic research	Editor
1991-2005	Rocky Mountain J. Math.	Editor
1990-2005	Communications in Algebra	Editor
1999,00,04-06	Tenure evaluations	Other universities

Recent publications (mathematical research)

- [32] *Noetherian domains inside a homomorphic image of a completion*, joint with W. Heinzer and C. Rotthaus, J. Algebra 215, no. 2, 1999, 666-681.
- [33] *Approximating discrete valuation rings by regular local rings*, joint with W. Heinzer and C. Rotthaus, Proc. Amer. Math. Soc. 129 (2001), no. 1, 37-43.
- [34] *Prime ideals and decompositions of modules*, joint with Roger Wiegand, in Non-Noetherian Commutative Ring Theory, Math. Appl., 520, Scott Chapman and Sarah Glaz, eds., Kluwer Acad. Publ., Dordrecht, 2000, 403-428.
- [35] *Intermediate rings between a local domain and its completion II*, joint with W. Heinzer and C. Rotthaus, Illinois J. Math. 45, no. 3, 2001, 965-979.
- [36] *Corrigendum to our paper "Intermediate rings between a local domain and its completion"*, joint with W. Heinzer and C. Rotthaus, Illinois J. Math., 44 (4), 2000, 1-2.
- [37] *Building Noetherian and non-Noetherian integral domains using power series*, joint with W. Heinzer and C. Rotthaus, in Ideal Theoretic Methods in Commutative Algebra (D. D. Anderson and Ira Papick, eds.), (Columbia, MO, 1999), 251-264, Lecture Notes in Pure and Appl. Math., 220, Dekker, New York, 2001.
- [38] *Noetherian domains with the same prime ideal structure as $Z_{(2)}[x]$* , joint with A. Serpil Saydam, Arab. J. Sci. Eng. (AJSE)Sect. C Theme Issues 26 (2001), no. 1, 187-198.
- [39] *Catenary local rings with geometrically normal formal fibers*, joint with W. Heinzer and C. Rotthaus, Algebra, arithmetic and geometry with applications, Springer, Berlin, ISBN number 3540004750, 2004, 497-510.
- [40] *Examples of integral domains inside power series rings*, joint with W. Heinzer and C. Rotthaus, in Commutative Rings and Applications, Lecture Notes in Pure & Applied Mathematics 231, Dekker, New York, 233-254.
- [41] *Prime ideals in birational extensions of two-dimensional domains over orders*, joint with A. Serpil Saydam, J. Pure Appl. Algebra 201, no. 1-3, 2005, 142-153.
- [42] *Non-finitely generated prime ideals in subrings of power series rings*, joint with W. Heinzer and C. Rotthaus, Rings, Modules, Algebras, and Abelian Groups, Dekker, Lecture Notes in Pure & Applied Mathematics 236, ISBN number 0-8247-4807-7, 2004, 333-341.
- [43] *Integral closures of ideals in completions of regular local Domains*, joint with W. Heinzer and C. Rotthaus, Commutative algebra, Lect. Notes Pure Appl. Math., 244, Chapman, Hall/CRC, Boca Raton, FL, 2006, 141-150. 13B22 (13H05)
- [44] *Generic formal fibers of mixed power series/polynomial rings*, joint with W. Heinzer and C. Rotthaus, J. Algebra 298 (2006), no. 1, 248-272.
- [45] *Mixed polynomial/power series rings and relations among their spectra*, joint with W. Heinzer and C. Rotthaus, in "Multiplicative Ideal Theory in Commutative Algebra: a tribute to the work of Robert Gilmer" J. Brewer, S. Glaz, W. Heinzer, eds., Springer, to appear.
- [46] *Indecomposable modules over one-dimensional Noetherian rings*, joint with M. Arnavut and Melissa Luckas, J. Pure & Applied Algebra, to appear.
- [47] *Extensions of local domains with trivial generic fiber*, joint with W. Heinzer and C. Rotthaus, submitted.

Other Publications (Historical, expository, editorial volumes, teaching, women in mathematics):

- [P1] *Grace Chisholm Young*, Association for Women in Mathematics Newsletter, Wellesley College, Wellesley, MA, May, 1977.
- [P2] *Women in Science Careers Workshop Booklet*, published by The Nebraska Press, 1980 (with A. Parkhurst).
- [P3] *Grace Chisholm Young*, a chapter in *Women in Mathematics*, edited by Louise Grinstein and Paul Campbell, Greenwood Press, Westport, Connecticut, 1987.
- [P4] *Grace Chisholm Young and William Henry Young*, in: *Creative Couples*, edited by Helena Pycior, Nancy Slack, and Pnina Abir-am, Rutgers Univ. Press, 1996.
- [P5] *Math Games - Math 200 class*, Fall 1993.
- [P6] *Women in Mathematics in the United States*, joint with Marie Vitulli, in Roundtable D, “Women and Mathematics”, edited by Kari Hag, *Progress in Mathematics*, Vol 169, 1998 Birkhauser Verlag, Basel, Switzerland, pages 366-371.
- [P7] President’s columns and articles, *AWM Newsletter*, March 1997 to January, 1999.
- [P8] Report on AWM/SIAM workshop, booklet and insert in *AWM Newsletter*, November 1997.
- [P9] *AWM in the 1990s: a recent history of the Association for Women in Mathematics*, joint with Jean Taylor, *Notices Amer. Math. Soc.* 46, no.1, 1999, 27-38.
- [P10] *1997-1999 AWM activities*, *AWM Newsletter*, March 1999. (Sub 99, acc 99).
- [P11] *1999 Mathfest*, *AWM Newsletter*, November 1999.
- [P12] Co-editor, with M. Fontana and S. Kabaaj, *Commutative ring theory and applications* 231, Dekker, New York, 2003, ISBN: 0-8247-0855-5.
- [P13] Obituary: Laurence Chisholm Young (1905—2000), joint with Wendell Fleming, *Bull. London Math. Soc.* 36, no. 3, 2004, 413-424.
- [P12] Author and co-author of two chapters in *Complexities: Women in Mathematics*, Case and Leggett, editors, Princeton University Press 2005, ISBN: 0-691-11462 (adaptations of P1 and P9).