Notable Events

Summer 2009:
All Girls/All Math: 12th Annual Mathematics Summer Camp for High School Girls

Summer, 2009:
Nebraska Research Experience for Undergraduates in Applied Mathematics
Mikil Foss, Stephen Hartke, Allan Peterson, Richard Rebarber

June 8-19, 2010:
Primarily Math Summer Institute

June 8-19, 2010 and July 6-17, 2010:
Nebraska Algebra Summer Institute

June 8-19, 2010 and July 6-17, 2010:
Math in the Middle Summer Institute

June 22-July 31, 2009:
IMMERSE Workshop (organized by Allan Donsig)

September 19-20, 2009:
KUMUNU 2009

September 2009:
Annual Undergraduate Scholarship Reception

November 6, 2009:
3rd Annual Pi Mu Epsilon Lecture: Andrew F. Rich of Manchester College, Indiana
(organized by Stephen Hartke and Petronela Radu)

November 12, 2009:
20th Annual Math Day

December 14, 2009:
Nebraska Summit on Mathematics Education

January 29-31, 2010:
Twelfth Annual Nebraska Conference for Undergraduate Women in Mathematics

March 5-6, 2010:
Graduate Recruiting Weekend

April 16, 2010:
14th Annual Rowlee Lecture: Carlos Kenig
(organized by George Avalos, Mohammad Rammaha, and Daniel Toundykov)

April 16-18, 2010:
Conference on Harmonic Analysis and PDE’s:
(organized by George Avalos, Mohammad Rammaha, and Daniel Toundykov)
Program

5:30 - 6:30 p.m.  Reception
6:30 - 7:30 p.m.  Dinner
7:30  Presentations

Presenters:  John Meakin
Judy Walker
Gordon Woodward

Thank you to
Lynn Erbe, Marilyn Johnson and Mohammad Rammaha
for organizing the department's
eleventh annual recognition dinner

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Faculty and Staff Members Serving for 0 (mod 5) years:

<table>
<thead>
<tr>
<th>Name</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>George Avalos</td>
<td>10</td>
</tr>
<tr>
<td>Cheryl Kane</td>
<td>20</td>
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<tr>
<td>Mohammad Rammaha</td>
<td>25</td>
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External Grants and Contracts Received in 2009-2010:

- George Avalos, NSF individual investigator research grant
- Mark Brittenham, External funding for Center for Communications Research
- Susan Cooper, AWM-NSF travel grant to speak at AMS-KMS Joint Mtg in Seoul, South Korea
- Susan Cooper & Brian Harbourne, NSF grant to support annual KUMUNU 2009
- Carina Curto, NSF individual investigator research grant
- Carina Curto, Eileen Hebets, Vladimir Itskov, Interdisciplinary Seed Grant
- Carina Curto & Vladimir Itskov, Research Council Visiting Scholars Grant
- GAANN grant, Roger Wiegand (Lead PI)
- Brian Harbourne, NSA grant extended through 2009
- Stephen Hartke, NSF individual investigator research grant
- Stephen Hartke & Petronela Radu, NSF CCLI "Math in the City" grant
- Susan Hermiller, External funding for Center for Communications Research
- Susan Hermiller, Collin Bleak, John Meakin, NSF grant for the ICGS2009 Conference
- Srikanth Iyengar, NSF individual investigator research grant
- Jim Lewis, Ruth Heaton, Tom McGowan, Barb Jacobson, Supplement to the Math in the Middle Institute Partnership, NSF grant
- MCTP grant, Allan Donsig, Tom Marley (Lead PI), Judy Walker
- NCUWM (NSA) grant, Allan Donsig (Lead PI)
- Petronela Radu, NSF individual investigator research grant
- Richard Rebarber, UNL Research Council Interdisciplinary Seed grant
- Richard Rebarber & Gordon Woodward, NSF REU Site grant for 2010-2012
- Brigitte Tenhumberg, UNL Layman fund grant
- Brigitte Tenhumberg, Participating faculty in NSF IGERT grant
- Judy Walker, NSF individual investigator research grant
- Mark Walker, Avind Asok, Christian Haesemeyer, Eric Friedlander and Chuck Weibel, NSF grant
- Focused Research Group (FRG) for 2010--2013

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National Offices:

- Jim Lewis, Member of NRC Committee on the Study of Teacher Preparation Programs in the U.S.
- Jim Lewis, Member of MSRI Educational Advisory Committee

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UNL Parents Association Certificates of Recognition for Contributions to Students:

- Steve Cohn (7), Marty Dougherty (1), Miki Foss (2), Jamie Radcliffe (2), Robert Ruyle (1), David Skoug (13), Judy Walker (5), Gordon Woodward (11)

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Roger Wiegand Award:

To Be Announced

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Retirements:

Thomas Shores — Tom Shores is retiring after more than 40 years on the department’s faculty: he joined the faculty in 1968. His research interests have spanned several different areas of mathematics including group theory, ring theory, commutative algebra and several areas of applied mathematics including numerical linear algebra, numerical differential equations and inverse theory. His teaching was honored with a UNL distinguished teaching award and an MAA Nebraska-South East South Dakota award for distinguished teaching. He served as Vice Chair from 1975 to 1980, as Acting Chair in 1986-87 and as director of the department’s computer lab for many years.

Margaret Tyler — After 30 years of service to the University of Nebraska-Lincoln, Margaret Tyler has decided to retire from her position with the University Libraries effective June 30. Margaret joined the Libraries in 1980 in the Interlibrary Loan department. In August, 1983, she transferred to Oldfather Hall where she became the first and only full time Operations Supervisor for the Mathematics Library.
### Graduate Students

**Awards and Fellowships cont.**

**2009-2010 GAANN Trainees:**
- Christopher Ahrendt, Justin DeVries, Michael Holm, Michael Janssen, Brian Johnson, Micah Learner, David McCune, Lori McDonnell, Jared Ruiz, Ashley Sullivan, Michael Uhrig

**2009-2010 MCTP Advanced Trainees (Fall):**
- Nathan Axvig, Jesse Burke, Anthony DeLegge, Kyle Fey

**2009-2010 MCTP Advanced Trainees (Spring):**
- Laura Lynch, Zahava Wilstein

**2009-2010 MCTP First-Year Trainees:**
- Rebecca Egg, Lauren Keough, Anisah Nu’Man

**2009 Outstanding First Year Students:**
- Tom Clark and Sara Reynolds

**2009 Outstanding Teaching by a Graduate Student:**
- Brian Johnson

**2009 Emeritus Faculty Fellowship Scholars:**
- Brian Johnson (Bill Leavitt Award), Pei Pei (Lloyd Jackson Award), Amanda Croll, Courtney Gibbons

**2009 Grace Chisholm Young and William Henry Young Fellowship:**
- Christopher Goodrich

**2009 Outstanding Qualifying Exams:**
- Melanie DeVries

**2009 Walter Mientka Teaching Award (newest award):**
- Tanner Auch

**2009-2010 Conference Speakers:**
- Christopher Ahrendt — AMS Sectional Meeting, Baylor University
- Nathan Axvig — AMS Sectional Meeting, Lexington, KY
- Nathan Axvig — AMS/MAA Joint Meetings, San Francisco, CA
- Eia Celikbas — AMS Sectional Meeting, St. Paul, MN
- Olgur Celikbas — AMS/MAA Joint Meetings, San Francisco, CA
- Inês Henriques — AMS/MAA Joint Meetings, San Francisco, CA
- Laura Lynch — AMS Sectional Meeting, Albuquerque, NM
- Lori McDonnell — AMS Sectional Meeting, Albuquerque, NM
- Katie Morrison — AMS Sectional Meeting, Lexington, KY
- Silvia Saccon — AMS/MAA Joint Meetings, San Francisco, CA
- Derrick Stolee — AMS/MAA Joint Meetings, San Francisco, CA

### Undergraduate Students

**Math Major Graduating with Highest Distinction:**
- Eric Norrgard

**Math Majors Graduating with High Distinction:**
- Frank Moonyoung Lee, Charles Lucas, Patrick Olson, Joshua Reed, William (Billy) Sanders, Aimee Schwab, Steven Trout, Robert Woodward

**Math Majors Graduating with Distinction:**
- Jessica Alley, Grayson Path, Rachael Schultz, Jordan Schleif

**Math Majors Graduating with Honors:**
- Jessica Alley, Matthew James, Eric Norrgard, Rachael Schultz, William (Billy) Sanders, Sarah Scofield, Brian Stevens

**Math Majors Graduated in August 2009:**
- Miranda Chrastil, Jordan Dudzinski, Joshua Lindsteadt

**Math Majors Graduated in December 2009:**
- Jessica Alley, Derek Augustine, Amber Hansen, Eric Hoffman, Joseph Lach, Shirah Leedom, Charles Lucas, Amelia Martinez, Patrick Olson, Grayson Path, Rachael Schultz, Christopher Starkey

**Math Majors Graduating in May 2010:**
- John DeVol, William Echtenkamp, Amy Gehring, Laura Janssen, Douglas Johnson, Hanieh Kamelian, Frank Moonyoung Lee, Catherine May, Eric Norrgard, Jonathan Olson, Joshua Reed, Eric Robbins, Christopher Rummel, William (Billy) Sanders, Jordan Schleif, Aimee Schwab, Autumn Shapland, Christie Shaw-Citta, Christopher Sheets, Jeffrey Thomas, Mason Tye, Andrew Wardyn, Martin Wolff, Robert Woodward, *Chancellor's Scholar*

**Senior Honors Theses:**
- Jessica Alley (directed by Mark Brittenham)
- William (Billy) Sanders (directed by Lucho Avramov and Srikanth Iyengar)

### Faculty and Staff

**Mathematical Association of America’s Polya Lecturer for 2009-10 and 2010-11:**
- Judy Walker

**College of Arts & Sciences Distinguished Teaching Award:**
- Stephen Hartke

**2010 Outstanding Postdoc Award**
- Susan Cooper (Honorable Mention)

**New Faculty Members, August 2009:**
- Carina Curto  •  Ananth Hariharan (Post Doc)  •  Vladimir Itskov

**Undergraduate Research:**

**Research Experiences for Undergraduates Participants and Internships, Summer 2009:**
- Jessica Alley (California State, San Bernardino-Knot Theory)
- Nicole Gaswick (Texas A&M, pre-REU)
- Laila Gharzai (John’s Hopkins)
- Laura Janssen (Canisius, Buffalo)
- Tyler Lemburg (Clemson University)
- Zachary Norwood (University of Illinois, Bloomington)
- William (Billy) Sanders (Hope College)

**Undergraduate Creative Activities & Research Experiences (UCARE) Participants for 2009-2010:**
- Tyler Lemburg (directed by Jamie Radcliffe)
- Wenling Ma (directed by Bo Deng)
- Robert Woodward (directed by CSCE)

**Research for Undergraduates in Theoretical Ecology (RUTE) Participants, Summer 2009:**
- Kevin Ahrendt, Laila Gharzai, Brian Hemen, Brenton Willoughby

**2009 Putnam Competition Participants:**
- Robert Brase, Jonathan (Jay) Cummings, Nicole Gaswick, Frank Lee, Keler Marku, Zachary Norwood, Devor O’Connor, Corey Stone, Jacob Williams

**2010 Modeling Competition Participants:**
- Ryan Hotovy, Corey Stone, Peter Schlette
Undergraduate Awards and Honors:

Goldwater Scholar:
Laila Gharzai (Honorable Mention)

Upperclass Scholars:

Freshmen Eastman Scholars:
Amy Been, Casey Griffin, Evan Nash, James Owens, Clinton Pettit, Zion Schell, Amanda Sedor, Bradley Sedor, Zachary Skokan, W. Benton Whaley, Jordan Wiebe

Raikes School Scholars Math Majors, 2009-2010:
James Edmund Dumire (SO), Alexander Stewart Estes (JR), Justin Lee Hicks (SR), Skylar Wood Lewis (SO), James Joseph Owens (JR), Christopher Adam Rummel (SR), Steven Edward Trout (SR)

2010 Phi Beta Kappa:
Frank Monoyung Lee, Eric Norrgard, William (Billy) Sanders, Robert Woodward

2010 Pi Mu Epsilon:
Alexander Adam Azzam, Kyle Bunkers, Pao Yi Cheah, David Foote, Charles Larrieu, Nathanael Spaulding, Wai Hong Yap

February Forum Recognition:
Amy Been, Brittany Bunker, Suet (Shelly) Chan, Susan Cooper, Kathryn DeJong, Tiffany Forycki, Nicole Gaswick, Andrea Hillen, Laura McKay, Aimee Schwab, Kamara Wright

Chairs Prize Award:
To Be Announced

Graduate Students

Ph.D. Recipients:

May 2010:
Anthony DeLegge, advised by Steve Dunbar
Dissertation title: "Mathematical Modeling of Optimal Seasonal Reproductive Strategies of Plant Populations and a Comparison of Long-Term Viabilities of Annuals and Perennials".

Deanna Dreher, advised by Judy Walker
Dissertation title: "Pseudocodewords of Graph Covers and Computation Trees".

Inês Henriques, advised by Lucho Avramov
Dissertation title: "Quasi-complete intersections with applications to free resolutions over Artinian rings".

August 2010 Ph.D. Recipients:
Christopher Ahrendt, advised by Lynn Erbe & Allan Peterson

Nathan Axvig, advised by Judy Walker
Dissertation title: "Applications of Linear Programming to Coding Theory".

Olguş Celikbas, advised by Mark Walker & Roger Wiegand
Dissertation title: "Vanishing of Ext and Tor over complete intersection rings".

Silvia Saccon, advised by Roger Wiegand
Dissertation title: "One-dimensional local rings of infinite Cohen-Macaulay type".

Masters Degree Recipients:

August 2009:
Teena Andersen, Katherine Bohac, Michael Bomar, Jeremy Fries, Stephanie Fuehrer, Michaela Goracke, Mariene Grayer, Nicholas Imholte, Scott Johnsen, Brian Johnson, Michelle Looky, Sheila McCartney, Ryon Nilson, Marcia Ostmeyer, Margaret Pickering, Edith Ronhovde, Zach Roth, Lindsey Sample, Mary Schneider, Amy Soloman, Jessica Thompson, Lexi Wichelt, Brandee Wilson, Xuan Yu, Anatoly Zlotnik

May 2010:
Abigail Brackins, Thomas Clark, Melanie DeVries, Jason Hardin, Kathryn Haymaker, Phillip Landry, Sara Reynolds, Kaelly Simpson, Ashley Weatherwax, Andrew Wilkerson

Published and/or Refereed Papers in 2009-2010:


Awards and Fellowships:

2009 University of Nebraska Presidential Fellowship:
Deanna Dreher

2009 Chancellors Doctoral Fellowship:
Brittney Hinds

2009 Other Graduate Fellowship:
Lauren Sipe, Nora Youngs