

## Notable Events

### Summer 2007:

**All Girls/All Math:** Eleventh Annual Mathematics Summer Camp for High School Girls

### Summer, 2007:

**Nebraska Research Experience for Undergraduates in Applied Mathematics**  
Glenn Ledder, Allan Peterson, Jamie Radcliffe

### June 25-August 2, 2007:

**IMMERSE Workshop** (organized by Tom Marley)

### September 8 & 9, 2007:

**KUMUNU 2007**

### October 2007:

**Annual Undergraduate Scholarship Reception**

### October 3, 2007:

**Inaugural Pi Mu Epsilon Lecture:** David Bressoud of Macalester College  
(organized by Allan Donsig and Gordon Woodward)

### November 8, 2007:

**18th Annual Math Day**

### February 8-10, 2008:

**Tenth Annual Nebraska Conference for Undergraduate Women in Mathematics**

### March 7-8, 2008:

**Graduate Recruiting Weekend**

### May 2, 2008:

**12th Annual Rowlee Lecture:** Peter Sarnak  
(organized by Steve Cohn)

### May 18-22, 2008:

**Commutative Algebra: Connections with Algebraic Topology and Representation Theory:**  
(organized by Mark Chardin, Lars Christensen, Sri Iyengar, Roger Wiegand, and Sylvia Wiegand)

## Ninth Annual

Department of  
**Mathematics**

## *Recognition Dinner*

**Tuesday**

**April 22, 2008**

**Nebraska Union • Centennial**

**5:30 – 9:00 p.m.**



# Program

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

*Presenters: John Meakin*  
*David Pitts*  
*Gordon Woodward*

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*Thank you to*  
*Lynn Erbe and Mohammad Rammaha*  
*for organizing the department's*  
*ninth annual recognition dinner*

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**Program Designed by**  
**Lori J. Mueller**

UNIVERSITY OF  
**Nebraska**  
Lincoln

## Faculty and Staff

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### Friedrich Wilhelm Bessel Research Prize:

Srikanth Iyengar

### Euler Prize for Research in Time Scales:

Allan Peterson

### Retirement, December 2007:

Buren (Skip Thomas), after 30 years in the department

### New Faculty Members, August 2007:

Stephen Hartke, Christine Kelley, Dean David Manderscheid

### New Post Docs, August 2007:

Collin Bleak and Daniel Toundykov

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

|                 |          |                 |          |
|-----------------|----------|-----------------|----------|
| Helen Banzhaf   | 10 years | Gwendolyn Hines | 15 years |
| Susan Hermiller | 10 years | Allan Peterson  | 40 years |
| Jamie Radcliffe | 15 years | Thomas Shores   | 40 years |

### External Grants and Contracts Received in 2007-2008:

*Lucho Avramov*, NSF research grant

*Lucho Avramov*, NSF conference grant for KUMUNU 2007

*Allan Donsig, Brian Harbourne, Wendy Hines, Glenn Ledder, Richard Rebarber, Judy Walker*, NSA grant for NCUWM

*Steve Dunbar*, MAA Professional Services contract

*Stephen Hartke*, UNL Research Council Faculty Seed Grant

*Wendy Hines*, NSA grant for "All Girls/All Math"

*Srikanth Iyengar*, NSF grant

*Srikanth Iyengar, Roger Wiegand*, NSF conference grant for Commutative Algebra: Connections with Algebraic Topology and Representation Theory

*Jim Lewis (Lead PI), Ruth Heaton, Tom McGowan, Barb Jacobson*, Math in the Middle Institute Partnership

*Judy Walker (Lead PI) and Lance Pérez*, NSF grant

### National Offices:

*Steve Dunbar*, MAA Director of Competitions

*Glenn Ledder*, Program Chair for the Biology Special Interest Group of the MAA (BIO SIGMAA)

*Jim Lewis*, Member of the National Research Council Committee on Teacher Preparation Programs in the U.S.

*John Meakin*, Member of the AMS Committee on Meetings and Conferences

*John Meakin*, MAA Committee on Business Industry and Government

*Allan Peterson*, International Society of Difference Equations Board Member

*Judy Walker*, Member-at-Large of the Council of the AMS and member of the AMS Committee on Science Policy

*Sylvia Wiegand*, AMS Committee on Academic Freedom, Tenure, and Employment Security

### UNL Parents Association Certificates of Recognition for Contributions to Students:

Collin Bleak (1), Derek Boeckner (1), Steve Cohn (6), Allan Donsig (3), Heidi Feller (2), Mikil Foss (1), Michael Gunderson (1), Irakli Loladze (3), John Orr (2), Janet Striuli (1), Buren (Skip) Thomas (2), Judy Walker (4), Gordon Woodward (9)

### Gold Star Award from Lincoln Public Schools:

Bill Rogge

### Roger Wiegand Award:

To Be Announced

## Graduate Students

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### Awards and Fellowships:

#### 2008 UNL Outstanding Graduate Teaching Assistant Award:

Martha Gregg  
Heidi Feller (Honorable Mention)

#### 2007-2008 GAANN Fellows:

Christopher Arendt, Chantelle Bicket, Jesse Burke, Amanda Croll, Deanna Dreher, Heidi Feller, Micah Leamer, Michael McCoy, David Milan, Amy Parrott, Zachary Roth

#### 2007-2008 MCTP Advanced Fellows (Fall):

Matthew Dvorak, Duane Einfeld, Christina Eubanks-Turner

#### 2007-2008 MCTP Advanced Fellows (Spring):

Raegan Higgins, Joan Lubben, Terri Moore

#### 2007-2008 MCTP Fellows:

Courtney Gibbons, Michael Janssen, Benjamin Nolting

#### 2007 Chancellors Doctoral Fellowship:

Joseph Geisbauer and Michael Uhrig

#### 2007 Larson Fellowships:

Zaher Kmail and Zahava Wilstein

#### 2007 Othmer Graduate Fellowship:

Katherine Field and Derrick Stolee

#### 2007 Outstanding First Year Student: Katie Morrison

#### 2007 Outstanding Teaching by a Graduate Student: Frank Moore

#### 2007 Emeritus Faculty Fellowship Scholars:

Jesse Burke, Inés Henriques, Lori McDonnell, Silvia Saccon, Ian Pierce

#### 2007 Grace Chisholm Young and William Henry Young Fellowship:

Kyle Fey and Nathan Axvig

#### 2007 Outstanding Qualifying Exams:

Tyler Seacrest and Brian Johnson

#### 2008 Siemens Award for AP Teaching (awarded to one teacher in each State):

Christopher Goodrich

#### 2007 Summer International Conference Talks:

Heidi Feller — 12th International Conference in Lisbon  
Heidi Feller — Conference in honor of Prof. Allan Peterson in Novacella, Italy

#### 2007-2008 Conference Invited Speakers:

Deanna Dreyer — (AMS Conference in Bloomington, IN - Indiana University)  
Livia Miller — (AGAMOCR conference in Storrs, CT)  
Livia Miller — (Career Mentoring Workshop for Women in West Point, NY)  
Frank Moore — (AMS Conference in Chicago, IL - Depaul University)

#### 2008 AMS Conference Joint Meeting Posters (San Diego):

Christina Eubanks-Turner, Heidi Feller, Livia Miller, Frank Moore

#### Oberwolfach Workshop Speaker (December 2007):

Deanna Dreyer

## Undergraduate Students

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#### Math Majors Graduating with High Distinction:

Stephen Anthony, Julianne Harm, Imke Reimers, Beth Ann Tidemann, Jaclyn Wray

#### Math Majors Graduating with Distinction:

Scott Hottovy, Lee Richert, Amy Tentinger, Daniel Williams

#### Math Majors Graduating with Honors:

Brady Garvin, Julianne Harm, Lee Richert, Andrea Rohn, Kyle Scheele, Amy Tentinger, Stephen Tetrault, Beth Ann Tidemann, Stephanie Walz, Daniel Williams, Jaclyn Wray

#### Math Majors Graduated in August 2007:

Shengjie Guo, Colin O'Keefe, Kyle Strabala

#### Math Majors Graduated in December 2007:

Victory Haines, Phong Le

#### Math Majors Graduating in May 2008:

Stephen Anthony, Ernesto Bartels, Duncan Davidson, Anne Donahue, Matthew Duling, Martin Frenzel, Brady Garvin, Chara Guthrie, Julianne Harm, Scott Hottovy, Emily Matthews, Elizabeth Miller, Clayton Rath, Imke Reimers, Lee Richert, Eric Robbins, Andrea Rohn, Kyle Scheele, Jeremiah Sjoberg, Amy Tentinger, Stephen Tetrault, Beth Ann Tidemann, Stephanie Walz, Aaron Wentzel, James Willcockson, Daniel Williams, Jaclyn Wray

#### Senior Honors Theses:

Scott Hottovy (directed by Prof. George Avalos and Michael Gunderson)

### Undergraduate Research:

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#### Research Experiences for Undergraduates Participants and Internships, Summer 2007:

Scott Hottovy (NSA)  
Tyler Lemburg (Trinity University—Poster at AMS meeting in San Diego)  
Wen Luo (Tennessee Tech)  
Ashley Patefield (George Washington University)  
Charles Scherer (Budapest Semesters)

#### Undergraduate Creative Activities & Research Experiences (UCARE) Participants for 2007-2008:

Scott Hottovy (directed by George Avalos)

#### Undergraduate MCTP Participants:

James Carraher, Martin Frenzel, Jeremy Johnston

#### Undergraduate RUTE Participants:

Emily Matthews, Beth Ann Tidemann, Noah Weiss

### Undergraduate Awards and Honors:

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#### 2007 Putnam Competition Participants:

Jeremy Johnston, Tyler Lemburg (Top Scorer), Keler Marku, Jing Zhou

#### Senior Eastman Scholars:

Stephen Anthony, Julianne Harm, Scott Hottovy, Lee Richert, Amy Tentinger, Beth Ann Tidemann, Stephanie Walz, Daniel Williams, Jaclyn Wray

#### JD Edwards Senior Undergrad Math Majors, 2007-2008:

Stephen Anthony, Brady Garvin, James Willcockson

**2007 Phi Beta Kappa:**

Stephen Anthony, Julianne Harm, Imke Reimers, Lee Richert, Beth Ann Tidemann, Daniel Williams, Jaclyn Wray

**2008 Pi Mu Epsilon:**

James Carraher, April Christensen, Jonathan Cummings, Steven Davis, Rachael Farrar, Andrew Hassing, Scott Hottovy, Jeremy Johnston, Tyler Lemburg, Noah Weiss, Jill Westcott

**February Forum Recognition (formerly Graduate Women in Science):**

Elaine Arrington, Sarah Arthur, Elizabeth Miller, Imke Reimers

**Freshmen Eastman Scholars:**

Nicole Gaswick, Nicholas Horan, Heather Hottovy, Nicole Huffman, Benjamin McGill, Zach Norwood, Brianna Pinquoch, Joseph Schmiedeskamp, Corey Stone, Shelbi Svoboda, Alexandra Toftul

**Chairs Prize Award:**

To Be Announced

## Graduate Students

### Ph.D. Recipients:

**December 2007:**

*Melissa Luckas*, advised by Sylvia Wiegand – Dissertation title: “Ranks and bounds for indecomposable modules over one-dimensional Noetherian rings”.

*Jacob Weiss*, advised by Lynn Erbe and Allan Peterson – accepted a Visiting Assistant Professor position at University of Nebraska at Kearney, Kearney, NE  
Dissertation title: “Second-Order Dynamic Equations on Time Scales”.

**May 2008:**

*Matthew Dvorak* advised by George Avalos – position pending  
Dissertation title: “Qualitative and Quantitative Analysis of a Fluid-Structure Interactive Partial Differential Equation Model”.

*Heidi Feller*, advised by Lynn Erbe and Allan Peterson – accepted a tenure-track position at Simpson College in Indianola, IA as an Assistant Professor in Mathematics.  
Dissertation title: “Solving Boundary Value Problems Using Critical Point Theory”.

*Pari Ford*, advised by Jamie Radcliffe – accepted a tenure-track position at the University of Nebraska at Kearney, Kearney, NE.  
Dissertation title: “Polynomial LYM Inequalities and Association Schemes on Lattices”.

*Martha Gregg*, advised by David Pitts – accepted a tenure-track position at Augustana College in Sioux Falls, SD.  
Dissertation title: “ $C^*$ -Extreme Points of the Generalized State Space of a Commutative  $C^*$ -Algebra”.

*Raegan Higgins*, advised by Lynn Erbe and Allan Peterson – accepted a Visiting Professor position at Texas Tech University in Lubbock, TX.  
Dissertation title: “Oscillation Theory for Dynamic Equations on Time Scales”.

**May 2008 Ph.D. Recipients (cont.):**

*David Milan*, advised by John Meakin and David Pitts – accepted a tenure-track position at the University of Texas at Tyler.  
Dissertation title: “ $C^*$ -algebras of inverse semigroups”.

*Sawanya Sakuntasathien*, advised by Mohammad Rammaha – accepted a position in Thailand.  
Dissertation title: “Global Well-Posedness for Systems of Nonlinear Wave Equations”.

**August 2008:**

*Brian Bockelman*, advised by Thomas Shores and David Swanson – accepted a Post Doc position at Tier-2 Computing Site for the Physics CMS Project at the University of Nebraska-Lincoln.  
Dissertation title: “Solving Partial Differential Equations Using Sinc Methods”.

*Andrew Crabbe*, advised by Roger Wiegand – accepted a Post Doc position at Syracuse University.  
Dissertation title: “Building Indecomposable Modules and Hilbert Polynomials”.

*Christina Eubanks-Turner*, advised by Sylvia Wiegand – accepted a tenure-track position at the University of Louisiana at Lafayette.  
Dissertation title: “Prime ideals of low-dimensional mixed polynomial/power series rings”.

*Michael Gunderson*, advised by George Avalos – accepted a position at Metron Inc., Reston, VA.  
Dissertation title: “A Numerical Approximation Scheme for Sub-Optimal Control of a Structurally Damped Partial Differential Equation”.

*Livia Miller*, advised by Tom Marley – accepted a Visiting Assistant Professor position at the University of Indianapolis.  
Dissertation title: “A Theory of Non-Noetherian Gorenstein Rings”.

*Frank Moore*, advised by Luchezar Avramov – accepted a HC Wang Assistant Professor position at Cornell University  
Dissertation title: “Cohomology of products of local rings”.

**Masters Degree Recipients:****August 2007:**

Stacy Aldag, Patricia Buchanan, Jesse Burke, Gary Eisenhauer, Shauna Fleming-Gree, Jessica Fricke, Susannah Go, Thomas Harrington, Chad Larson, Carmen Melliger, Daniel Schaben, Christina Sheets, Cynthia Steinkruger, Shana Streeks, Diane Swartzlander, Lindsay Thompson, Tina Thompson, Janet Timoney, Gregory Vanderbeek

**December 2007:**

Sarah Tekansik

**May 2008:**

Colin Anderson, Kathleen Ansaldi, Anthony DeLegge, Justin DeVries, Yanqiu Guo, Aleksandra Stein

**August 2008:**

Michael Holm