December 2, 2008

DEPARTMENTAL MEETING
Today’s agenda

1. News
2. Course Evaluations
3. Faculty Evaluations and Salaries
4. Budget
NEWS: Faculty

- Zhijun Wu was named ‘New Directions Professor’ at the Institute for Mathematics and its Applications (IMA, Minneapolis).
NEWS: Faculty

- Sunder Sethuraman received the best paper award from the prestigious Annales de l'Institut Henri Poincaré (B) in France.
NEWS: Faculty

- Howard Levine is one of the 300 most cited mathematicians in the world.
NEWS: Faculty

- Glenn Luecke was invited by Michigan State as consultant for their high performance computing programs
NEWS: Graduate student publications appeared


- Axenovich, Maria; **Manske, Jacob**. *On monochromatic subsets of a rectangular grid*. Integers 8 (2008), A21, 14 pp.

NEWS: Graduate student publications submitted


- **O. Pryporova**, *Qualitative convergence of matrices*, submitted to Linear Algebra and its Applications.


NEWS: Graduate student presentation outside ISU

- **Chris Kurth.** *Farey symbols and finite index subgroups of PSL_2(Z)*, 2008 Joint Mathematics Meeting, Special Section on Modular Forms (invited speaker), San Diego, January 2008

- **Rana Mikkelson.** Presented at the 15th Annual International Linear Algebra Society Meeting in Cancun Mexico.


NEWS: Iowa Mathematics Field of Dreams Conference

- Over 50 minority students from all over country
- Over 20 faculty from associated institutions
NEWS: Field of Dreams Conference

ISU Units
- Office of the Provost
- Graduate College
- College of Engineering
- College of Liberal Arts and Sciences
- Department of Aerospace Engineering
- Department of Computer Science
- Department of Mathematics
- Department of Mechanical Engineering
- Department of Statistics
- VRAC and HCI Program
- Biorenewable Resources & Technology Graduate Program
- Interdepartmental Programs in Genetics and Toxicology

UNI Units
- Office of the Provost
- College of Natural Science
- Graduate College
- Department of Mathematics

UI Units
- Office of the Vice President for Research
- College of Engineering
NEWS: Gift to the department

- Gift of $300,000 from estate of Robert William Morris (ISU Mechanical Engineering in 1962)

Iowa State University Library/Special Collections Department (1962)
NEWS: MORE 2009

Mathematics On the Road Experience

- Students, teachers, parents, general public
- Visits at all 10 AEAs in Iowa

Bergman, Bolles, Kliemann and Tuttle have been working hard to organize MORE.
NEWS: MORE 2009

Mathematics On the Road Experience

- Presentations, advising, recruiting
- Meetings with MSM alumni
- Materials for high school teachers – Iowa Core Curriculum
NEWS: MORE 2009

www.math.iastate.edu/MORE2009/home.html  515-294-8680  more@iastate.edu

MATHMATICS ON THE ROAD EXPERIENCE

Project Coordinator: Clifford Bemou is a professor of mathematics at Iowa State University.

high school math teachers
students in grades 9-12
invested, caring parents

Which classes should I take?
How many math classes should I take in high school?

What if I don’t like math... or I am not good at math... or I have no intention of ever becoming a mathematician?

explore the relationship between mathematics and career options

Get new ideas and materials that support the core curriculum

learn about college-level mathematics expectations for a variety of majors

put speaker and topic information here

all those lovable sponsors... there will be prizes!!!

Iowa Math and Science Education Partnership

IOWA STATE UNIVERSITY

Texas Instruments

Walmart or HyVee

NATIONAL COUNCIL OF TEACHERS OF MATHEMATICS

NCTM

TI NSPIRE CAS handheld - student drawing
$100 ICTM/NCTM credit - teacher drawing
$100 WALMART gift card - parent drawing

PLUS TI NSPIRE TEACHER EDITION SOFTWARE for the teacher bringing the most students and parents

free admission for Heartland AEA teachers, students and parents

Monday evening
January 26, 2009
6:30 to 8:30 p.m.
Public Library
at 3520 86th Street in Urbandale
NEWS: MORE 2009

Sponsors
- Iowa State University
- Iowa Math Science Education Partnership
- Texas Instruments
- Iowa Area Education Agencies
- Iowa Council of Teachers of Mathematics
- National Council of Teachers of Mathematics
- Walmart? Hy-Vee?
NEWS: Cliff’s Math Corner

Puzzle #3: The lines $MN$ and $CE$ divide the figure into two squares and one equilateral triangle. If the perimeter of the square $ABMN$ is 56 inches, what is the area of the pentagon $ABCDE$?

Puzzle #1: In the Mathematical Wizards Soccer League, each team plays a total of 19 games. For each win a team gets 3 points, and for a tie it gets 1 point. At the end of the season Team Prism has 28 points. What is the minimum number of games Team Prism won?

Puzzle #3 Winner and Solution

WINNER: Name, age, Hometown. SOLUTION: The circumference of $ABMN$ is 56”, hence its sides are 14” each and its area is 196 square inches. We now have to compute the area of an equilateral triangle with sides of 14”. Pythagoras tells us that the height...etc. etc. etc.

Created by Dr. Cliff Bergman, professor of mathematics at Iowa State University. See www.math.iastate.edu/corner for contest details, puzzle solutions and weekly winners.
COURSE EVALUATIONS

- The College of LAS requires course evaluations for every course taught.
- Missing evaluations result in information gap for evaluation of teaching.
- This Fall: Evaluation during last and this week. E-mails to students in courses that have not returned their teaching evaluations.
- Spring 2009: Design online course evaluation system.
FACULTY EVALUATIONS & SALARIES

- Position Responsibility Statement
- CV and Annual Performance and Growth Report
  To come: Faculty and Staff Portfolio
- Evaluations modeled after P&T criteria:
  - Competence in research, teaching, (professional practice), institutional service
  - Scholarship (in research)
- Plus contributions to the Department (visibility)
FACULTY EVALUATIONS & SALARIES

- Guideline for percentages (depending on PRS):
  - 50% - scholarship
  - 20% - teaching
  - 20% - institutional service
  - 10% - visibility
FACULTY EVALUATIONS & SALARIES

- Average raise: satisfies expectations (rating of 3), may be different for junior and senior faculty

- Spring 2009 (depending on PRS):
  - 60% - scholarship
  - 20% - teaching
  - 20% - institutional service
BUDGET

- Departmental budget: deficit of about $200,000 for FY09

- Reasons:
  - Personnel
  - Graduate TAs
  - Supplies and Services

- Will cover from reserves

- FY10: fire NTE faculty and/or TAs?
BUDGET

- Systemic problems
  - Supplies and Services
  - Personnel: 38.28 TE faculty + 7.08 NTE faculty
  - Teaching budget: emergency mode
  - No funds to reward faculty
BUDGET

- Solutions
  - 5-year 10-position hiring plan (External Review Team)
  - Stabilize teaching budget
  - Fire NTE faculty and/or TAs
  - Fund reserves first

- Meeting with LAS on Thursday