

# Modeling in Calculus: Early and Often

PREP Workshop

Calvin College

July, 2012

# Outline of the Week

- Monday Arrival and Introductions
- Tuesday 1-variable models
- Wednesday Multi-variable models
- Thursday Differential Equations and Dynamics
- Friday Show and Tell

# Daily Schedule

| ??            | Breakfast |
|---------------|-----------|
| 8:30 – 10:00  | Block 1   |
| 10:00 – 10:30 | Break     |
| 10:30 – 12:00 | Block 2   |
| 12:00 – 1:00  | Lunch 2   |
| 1:00 – 2:30   | Block 3   |
| 2:30 – 3:00   | Break     |
| 3:00 – 5:00   | Block 4   |
| 5:00 – 6:30   | Free Time |
| 6:30          | Dinner    |

# Work + Shop = Workshop

## Shopping

- lots of examples
- big picture discussion (pedagogy, curriculum)
- sources for more materials, examples, etc.

## Working

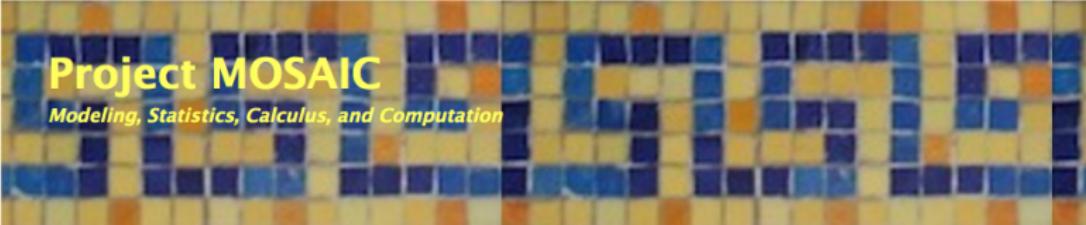
- time each day for you to work on your own stuff
- We hope everyone will have at least one thing (class demo, student project assignment, curriculum revision, test problems, etc.) to report on Friday.

## All Work and No Play ...

- Nature Preserve, Running Trails, Athletic Facilities
- Mall – 0.5 to 0.75 miles South on the Beltline
- Wednesday afternoon/evening – On your own options
  - Lake Michigan?
    - 45–60 minute drive
    - need approx. head count to arrange transportation
  - Other interests?
- Thursday evening – Picnic Pops
  - We need to order tickets and meals by 9am tomorrow.
  - Sign-up tonight or first thing tomorrow.
  - Full Program available online

# Information Please

<http://mosaic-web.org/>



**Project MOSAIC**  
*Modeling, Statistics, Calculus, and Computation*

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## 2012 MAA PREP Workshop

### Modeling: Early and Often in Undergraduate Calculus

Daniel Kaplan, Randall Pruim, Eric Marland, and Nicholas Horton  
July 9 – 13, 2012  
Grand Rapids, Michigan

If you have not yet registered, please see below.

**Pre-workshop information for participants**

- The workshop begins with dinner and introduction at the Prince Conference Center at 6:30 pm on Monday, July 9.
- Posting of readings, videos of seminars, and other materials: [link here](#).
- Survey for participants on courses and technology. This information helps us to plan the workshop.
- Email list: all participants should be on our [prep2012@mosaic-web.org](mailto:prep2012@mosaic-web.org) list

**Upcoming Events**

- July 9, 2012  
MAA PREP Workshop  
Dates: July 9, 2012 – July 14,  
2012  
Location: Calvin College  
*Project MOSAIC is organizing  
an MAA PREP workshop  
entitled Modeling: Early and  
Often in Calculus*



# Pat and Sharon



Pat Buist

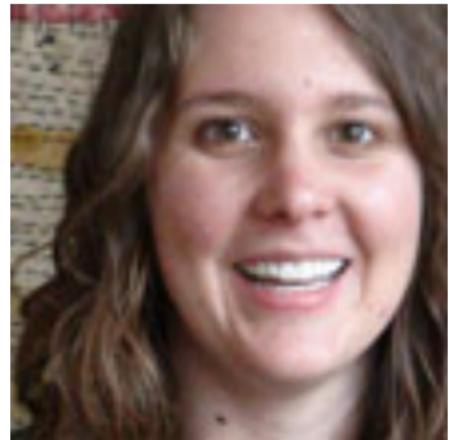


Sharon Gould

# Julia and Cecylia



Julia VanderMolen (Calvin)



Cecylia Bocovich (Macalester)

# Eric Marland (Appalachian St.)



# Danny Kaplan (Macalester)



Danny Kaplan (Macalester)



# Nick Horton (Smith)



This is not a picture of Randy Pruim



# Inchworm



# Lake Michigan Sunset



▶ back

# Picnic Pops



▶ back

# Picnic Pops

