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For assistance in conducting the conference:
  AUM Mathematics Club and
  AUM Mathematics Faculty

For donation of folders, pencils, and notepads:
  Alabama College Loan Program, KHEAA, and
  The Student Loan People at AlabamaMentor.org

February 24, 2007

AUM's 4th Annual Sonia Kovalevsky Mathematics Day

Sponsored By:
The Association for Women in Mathematics (AWM)
National Security Agency (NSA)
Elizabeth City State University
AUM Lectures Committee
AUM Office of Academic Affairs
AUM Department of Mathematics
AUM School of Sciences
**Program Participants**

**Keynote Speaker**
Dr. Ayse Sahin  
Associate Professor of Mathematics, DePaul University, Chicago, Illinois

**Career Panelists**
Mrs. Athena Clark, Alabama State Director of the U.S. Geological Survey, engineer  
Dr. Jeanne Kuhler, Associate Professor, Chemistry, Auburn Montgomery  
Mrs. Teonna Mills, High School Teacher at Stanhope Elmore High School  
Dr. Ayse Sahin, Associate Professor, Mathematics, DePaul University  
Mrs. Stephanie Mason Thornhill, Computer Specialist, Aronov Realty,  
Dr. Joan N. Powell, Assistant Professor, Mathematics, Auburn Montgomery

**Program Organizers:**
Dr. Joan N. Powell  
Dr. Tuval Foguel  
Dr. Matthew Ragland  
Dr. Luis Cueva-Parrar  
Mrs. Freida Warren  
Technology/Equipment Registration

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### Sonia Kovalevsky Day Program

**Auburn Montgomery**  
February 24, 2007

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>8:00 - 8:45</td>
<td>Registration &amp; Refreshments</td>
<td>3rd Floor</td>
</tr>
<tr>
<td>8:45 - 9:15</td>
<td>Welcome</td>
<td>112 G</td>
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<tr>
<td>9:25 - 10:15</td>
<td>Workshop Session #1</td>
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<tr>
<td>Dr. Paul Davis</td>
<td>Dr. Enoch Lee</td>
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<tr>
<td>Dr. Mosisa Aga</td>
<td>Dr. Matt Ragland</td>
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<tr>
<td>Ms Shawanda Thomas</td>
<td>Mr. Joe Albree</td>
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<td>Dr. Yi Wang</td>
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*(See Workshop List for titles and room numbers)*

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>10:25 - 11:15</td>
<td>Workshop Session #2</td>
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<tr>
<td>Dr. Nydia Lowery</td>
<td>Dr. Rhodes Peele</td>
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<tr>
<td>Dr. Matt Ragland</td>
<td>Ms Shawanda Thomas</td>
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<tr>
<td>Dr. Tuval Foguel</td>
<td>Dr. Farman Smith</td>
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<tr>
<td>Ms Julie Ryle and Ms Hiba Fayoumi</td>
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<tr>
<td>11:25 - 12:15</td>
<td>Career Panel Discussion</td>
<td>112 G</td>
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<tr>
<td>12:15 - 1:00</td>
<td>Lunch</td>
<td>318/307 G</td>
</tr>
<tr>
<td>1:10 - 2:00</td>
<td>Workshop Session #3</td>
<td></td>
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<tr>
<td>Dr. Nydia Lowery</td>
<td>Dr. Tuval Foguel</td>
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<td>Dr. Rhodes Peele</td>
<td>Dr. Scott Brown</td>
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<tr>
<td>Mr. Joe Albree</td>
<td>Dr. Luis Cueva-Parrar</td>
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<tr>
<td>Ms Julie Ryle and Ms Hiba Fayoumi</td>
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<tr>
<td>2:10 - 3:00</td>
<td>Keynote Speaker: Dr. Ayse Sahin</td>
<td>112 G</td>
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Mathematics: Who Really Needs It?

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>3:00 - 3:30</td>
<td>Door Prizes and Closing Remarks</td>
<td>112 G</td>
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</tbody>
</table>

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### Workshops

The following workshops will be indicated on the schedule by presenter’s name only. See below for title and room number.

**Workshop Leaders:**

- **Dr. Nydia Lowery**, Central Ala Comm. College, Room 317  
  From Conjecture to Proof: A Little Number Theory

- **PhD. Candidates, Mathematics, University of Alabama**
- **Ms. Shawanda Thomas**, Room 221  
  Your Financial Futures: Making Wise Decisions with Money
- **Ms. Julie Ryle and Ms. Hiba Fayoumi**, Room 320  
  Cryptography, Coding, and Modular Arithmetic

**Auburn Montgomery Mathematics Faculty:**

- **Dr. Mosisa Aga**, Room 319  
  The Reluctant Witness: A Mathematical Murder Mystery
- **Mr. Joe Albree**, Room 222  
  Who is Sonya Kovalevskaya?
- **Dr. Scott Brown**, Room 211  
  Geometry and Islamic Art
- **Dr. Luis Cueva Parrar**, Room 205-Computer Classroom  
  Cellular Automata: A Mathematics Laboratory
- **Dr. Paul Davis**, Room 317  
  Satellites: How Do They Work?
- **Dr. Tuval Foguel**, Room 316  
  The Hospitable Golfers: Constructing a Round Robin Tournament on Neutral Grounds
- **Dr. Enoch Lee**, Room 319  
  Can You Keep a Secret?
- **Dr. Rhodes Peele**, Room 211  
  Probability Surprises
- **Dr. Matthew Ragland**, Room 205-Computer Classroom  
  How to Program a Simple Video Game
- **Dr. Yi Wang**, Room 205-Computer Classroom  
  Mathematics and Your Pictures: Digital Image Processing
- **Dr. Furman Smith**, Room 205-Computer Classroom  
  How to Program a Simple Video Game