### Mathematics Education Program
**Monday, January 27 – Wednesday, January 29, 2014**
University of California, Irvine, Beckman Center

#### Day One: Monday, January 27

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<th>Time</th>
<th>Speaker/Presenter</th>
<th>Topic</th>
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| 8:45 – 8:50 a.m. | Donald G. Saari  
Distinguished Professor: Mathematics and Economics, University of California, Irvine, NAS member | Opening and Introductions                                                                         |
| 8:50 – 9:15 a.m. | Michael V. Drake, M.D.  
Chancellor, University of California, Irvine  
Megerdich Toomanian  
Delegation Head; Iranian Academy of Sciences | Welcome                                                                                           |
| 9:15 – 9:45 a.m. | Professor Megerdich Toomanian  
Professor of Mathematics  
Azad University- Karaj Branch | Continuity creates topology                                                                       |
| 9:45 – 10:15 a.m. | Donald G. Saari  
Distinguished Professor: Mathematics and Economics, University of California, Irvine, NAS member | Using continuity and topology to model human behavior                                               |
| 10:15 – 10:30 a.m. | Break |                                                                                                  |
| 10:30 – 11:00 a.m. | Professor Madjid Mirzavaziri  
Professor of Mathematics  
Ferdowsi University of Mashad | A mathematical style in fictions                                                                 |
| 11:00 – 11:30 a.m. | Professor Ebrahim Reyhani  
Assistant Professor of Mathematics  
Shahid Rajaee Teacher Training University | Problem solving and problem posing in mathematics education                                         |
| 11:30 – 12:00 p.m. | Dr. Nasim Asghary  
Assistant Professor of Mathematics  
Education, Azad University- Central Tehran Branch | Early algebraic thinking                                                                          |
| 12:00 – 1:30 p.m. | Lunch |                                                                                                  |
| 1:30 – 2:00 p.m. | Dr. Ghorbanali Haghighatdoost Bonab  
President, University of Bonab | Teaching of mathematics in high schools- position of mathematics, goals, programs, methods and teacher training |
| 2:00 – 2:30 p.m. | Diane Briars  
President-Elect, National Council of Teachers of Mathematics | Creating and selecting mathematics textbooks that support effective teaching and student learning     |
| 2:30 - 3:00 p.m. | Greg Duncan  
School of Education, University of California, Irvine, NAS member | Good in math, good in life                                                                         |
| 3:00 – 3:10 p.m. | Discussion |                                                                                                  |
| 3:10 – 3:25 p.m. | Break |                                                                                                  |
| 3:30 – 4:00 p.m. | Dr. Reza Heidari Ghezeljeh  
Ministry of Education | Dynamic mathematics software and mathematical modeling in high school level                         |
| 4:00 – 5:00 p.m. | Robert Devaney  
President, Math Association of America  
Professor of Mathematics and Statistics, Boston University | The Fractal Geometry of the Mandelbrot Set                                                         |
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| 8:45 – 9:00 a.m. | Deborah Vandell  
Dean, School of Education  
University of California, Irvine | Welcome |
| 9:00 – 9:30 a.m. | Dr. Rashid Zaare Nahandi  
Associate Professor, Institute for Advanced Studies in Basic Sciences | Mathematics competitions for university students in Iran |
| 9:30 – 10:00 a.m. | Michael Jones  
Editor Mathematics Magazine  
Assoc. Editor, Math Reviews | Opportunities for Pre-College Students: Circles, Competitions, Fairs, and Longer Programs |
| 10:00 – 10:30 a.m. | Dr. Arash Rastegar  
Assistant Professor of Mathematical Sciences, Sharif University of Technology | Mathematics education and cognition types |
| 10:30 – 10:45 a.m. | Break |  |
| 10:45 – 11:15 a.m. | Deanna Haunsperger  
Chair, Math Dept., Carleton College  
Past MAA Vice President | Building supportive communities in mathematics |
| 11:15 – 11:45 a.m. | Dr. Amir Hossein Asghari  
Assistant Professor of Mathematics  
Education, Shahid Beheshti University | The use of historical comic strips to engage students in mathematics and to help them to appreciate mathematics as a human endeavor |
| 11:45 – 12:15 p.m. | Dr. Abolfazl Rafiepour  
Assistant Professor of Mathematics  
Education, Shahid Bahonar University of Kerman | Modeling and application in Iranian mathematics education community: research and practice |
| 12:15 – 1:30 p.m. | Lunch |  |
| 1:30 – 2:00 p.m. | Simon Levin  
George M. Moffett Professor of Biology  
Princeton University, NAS member | Modeling of infectious diseases |
| 2:00 – 2:30 p.m. | Dr. Abdolali Abdollahi  
Professor of Mathematics, Shiraz University | How to teach matrices in information technology era |
| 2:30 – 3:00 p.m. | Sarah Eichorn  
Associate Dean of Distance Learning, Department of Mathematics, University of California, Irvine | Preparing students for STEM Gateway course success: Low-cost, scalable, online solutions for remediating students |
| 3:00 – 3:15 p.m. | Break |  |
| 3:15 – 3:45 p.m. | Dr. Masoud Ariannejad  
Associate Professor of Mathematics  
University of Zanjan | The necessity of philosophical approaches in teaching advanced pure mathematics |
| 3:45 – 4:15 p.m. | Dr. Soheila Gholamazad  
Assistant Professor, Department of Mathematics, Science and Technology Research Institution for Education, Ministry of Education | Exploring mathematical proof through self-dialogue |
| 4:15 – 4:45 p.m. | Dr. Kasra Alishahy  
Assistant Professor of Mathematics  
Shiraz University of Technology | Using the Element of Surprise in Teaching Probability |
| 4:45 – 5:00 p.m. | Discussion |  |
### Day Three: Wednesday, January 29

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<tr>
<th>Time</th>
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| 8:45 – 9:00 a.m.    | Kenneth Janda  
                       | Dean of Physical Sciences, University of California, Irvine                                     |
|                     | Welcome                                                                                       |
| 9:00 – 9:30 a.m.    | Dr. Mani Rezaie  
                       | Assistant Professor of Mathematics Education  
                       | Shahid Beheshti University                                                                     |
|                     | The nature of combinatorial thinking                                                            |
| 9:30 – 10:00 a.m.   | Jean-Claude Falmagne  
                       | Research Professor of Cognitive Sciences  
                       | University of California, Irvine                                                                |
|                     | Learning Spaces: the mathematical foundation of the ALEKS system                               |
| 10:00 – 10:15 a.m.  | Break                                                                                         |
| 10:15 – 10:45 a.m.  | Dr. Harold Baker, Director, Customer Support, ALEKS                                          |
| 10:45 – 11:00 a.m.  | Discussion                                                                                     |
| 11:00 – 12:30 p.m.  | Representative: International Visitor Leadership Program                                       |
|                     | Final Administrative Details; Evaluation of Mathematics Education Program                     |
| 12:30 – 1:30 p.m.   | Lunch and Adjournment                                                                         |