

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

Day One: Monday, January 27

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 p.m.	Professor Ebrahim Reyhani Assistant Professor of Mathematics Shahid Rajaei 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 Haghghatdoost 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 Ghezaljah 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. Abdolaziz Abdollahi Professor of Mathematics, Shiraz University	How to teach matrices in information technology era
2:30 – 3:00 p.m.	Sarah Eichhorn 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	

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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	Demonstration of 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	