

LIST OF WORKSHOP PARTICIPANTS

- Douglas N. Arnold, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Donald G. Aronson, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Evgeniy Bart, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Daniel J. Bates, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Gian Mario Besana, Department of Computer Science-Telecommunications, DePaul University
- Laurent Buse, Project GALAAD, Institut National de Recherche en Informatique Automatique (INRIA)
- Eduardo Cattani, Department of Mathematics and Statistics, University of Massachusetts
- Ionut Ciocan-Fontanine, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Maria Angelica Cueto, Departamento de Matematica - FCEyN, University of Buenos Aires
- Wolfram Decker, Fachrichtung Mathematik, Universität des Saarlandes
- Bernard Deconinck, Department of Applied Mathematics, University of Washington
- Jesus Antonio De Loera, Department of Mathematics, University of California
- Harm Derksen, Department of Mathematics, University of Michigan
- Alicia Dickenstein, Departamento de Matemática, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires
- Jintai Ding, Department of Mathematical Sciences University of Cincinnati
- Sandra Di Rocco, Department of Mathematics, Royal Institute of Technology (KTH)
- Xuan Vinh Doan, Operations Research Center, Massachusetts Institute of Technology
- Kenneth R. Driessel, Mathematics Department, Iowa State University
- David Eklund, Matematiska Institutionen, Royal Institute of Technology (KTH)
- Makan Fardad, Department of Electrical and Computer Engineering, University of Minnesota Twin Cities

- Xuhong Gao, Department of Mathematical Sciences, Clemson University
- Luis Garcia-Puente, Department of Mathematics, Texas A&M University
- Oleg Golubitsky, School of Computing, Queen's University
- Jason E. Gower, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Genhua Guan, Department of Mathematics, Clemson University
- Marshall Hampton, Department of Mathematics and Statistics, University of Minnesota
- Gloria Haro Ortega, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Michael Corin Harrison, Department of Mathematics and Statistics, University of Sydney
- Milena Hering, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Christopher Hillar, Department of Mathematics, Texas A&M University
- Benjamin J. Howard, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Evelyne Hubert, Project CAFE, Institut National de Recherche en Informatique Automatique (INRIA)
- Farhad Jafari, Department of Mathematics, University of Wyoming
- Itnuit Janovitz-Freireich, Department of Mathematics, North Carolina State University
- Anders Nedergaard Jensen, Institut for Matematiske Fag, Aarhus University
- Gabriela Jeronimo, Departamento de Matematica - FCEyN, University of Buenos Aires
- Roy Joshua, Department of Mathematics, Ohio State University
- Irina Kogan, Department of Mathematics, North Carolina State University
- Martin Kreuzer, Department of Mathematics, Universität Dortmund
- Teresa Krick, Departamento de Matematica - FCEyN, University of Buenos Aires
- Michael Kunte, Fachrichtung Mathematik, Universität des Saarlandes
- Song-Hwa Kwon, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Oliver Labs, Mathematik und Informatik, Universität des Saarlandes
- Sanjay Lall, Department of Aeronautics and Astronautics, Stanford University

- Niels Lauritzen, Institut for Matematiske Fag, Århus University
- Anton Leykin, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Tien-Yien Li, Department of Mathematics, Michigan State University
- Hstau Liao, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Tie Luo, Division of Mathematical Sciences, National Science Foundation
- Gennady Lyubeznik, School of Mathematics, University of Minnesota Twin Cities
- Diane Maclagan, Department of Mathematics, Rutgers University
- Susan Margulies, Department of Computer Science, University of California
- Hannah Markwig, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Thomas Markwig, Department of Mathematics, Universität Kaiserslautern
- Guillermo Matera, Instituto de Desarrollo Humano, Universidad Nacional de General Sarmiento
- Laura Felicia Matusevich, Department of Mathematics, Texas A&M University
- Richard Moeckel, School of Mathematics, University of Minnesota Twin Cities
- Bernard Mourrain, Project GALAAD, Institut National de Recherche en Informatique Automatique (INRIA)
- Uwe Nagel, Department of Mathematics, University of Kentucky
- Jiawang Nie, Institute of Mathematics and its Applications, University of Minnesota Twin Cities
- Michael E. O'Sullivan, Department of Mathematics and Statistics, San Diego State University
- Jang-Woo Park, Department of Mathematical Sciences, Clemson University
- Pablo A. Parrilo, Laboratory for Information and Decision Systems, Massachusetts Institute of Technology
- Matt Patterson, Department of Applied Mathematics, University of Washington
- Paul Pedersen, Department of Computer and Computation Science, Los Alamos National Laboratory
- Chris Peterson, Department of Mathematics, Colorado State University
- Sonja Petrovic, Department of Mathematics, University of Kentucky
- Ragni Piene, Centre of Mathematics for Applications, University of Oslo

- Sorin Popescu, Department of Mathematics, SUNY
- Kristian Ranestad, Department of Mathematics, University of Oslo
- Gregory J. Reid, Department of Applied Mathematics, University of Western Ontario
- Victor Reiner, School of Mathematics, University of Minnesota Twin Cities
- Joel Roberts, School of Mathematics, University of Minnesota Twin Cities
- J. Maurice Rojas, Department of Mathematics, Texas A&M University
- Fabrice Rouillier, Projet SALSA, Institut National de Recherche en Informatique Automatique (INRIA)
- David Rusin, Department of Mathematical Sciences, Northern Illinois University
- Michael Sagraloff, Algorithms and Complexity, Max-Planck-Institut für Informatik
- Bruno Salvy, Projet ALGO, Institut National de Recherche en Informatique Automatique (INRIA)
- Arnd Scheel, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Eric Schost, LIX, École Polytechnique
- Frank-Olaf Schreyer, Mathematik und Informatik, Universität des Saarlandes
- Chehrzad Shakiban, Institute of Mathematics and its Applications, University of Minnesota Twin Cities
- Tanush Shaska, Department of Mathematics and Statistics, Oakland University
- Andrew J. Sommese, Department of Mathematics, University of Notre Dame
- Ivan Soprunov, Department of Mathematics, Cleveland State University
- Frank Sottile, Department of Mathematics, Texas A&M University
- Steven Sperber, School of Mathematics, University of Minnesota Twin Cities
- Dumitru Stamate, School of Mathematics, University of Minnesota Twin Cities
- Michael E. Stillman, Department of Mathematics, Cornell University
- Bernd Sturmfels, Department of Mathematics, University of California at Berkeley
- David Swinarski, Department of Mathematics, Columbia University
- Agnes Szanto, Department of Mathematics, North Carolina State University
- Nobuki Takayama, Department of Mathematics, Kobe University

- Kathleen Iwancio Thompson, North Carolina State University
- Carl Toews, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Ravi Vakil, Department of Mathematics, Stanford University
- Mark van Hoeij, Department of Mathematics, Florida State University
- Mauricio Velasco, Department of Mathematics, Cornell University
- Jan Verschelde, Department of Mathematics, Statistics and Computer Science, University of Illinois at Chicago
- John Voight, Institute for Mathematics and its Applications, University of Minnesota Twin Cities
- Hans-Christian von Bothmer, Institut für Mathematik, Universität Hannover
- Charles W. Wampler, General Motors Research and Development Center
- Daqing Wan, Department of Mathematics, University of California
- Mingsheng Wang, Institute of Software, Chinese Academy of Sciences
- Oliver Wienand, Department of Mathematics, University of California
- Wenyuan Wu, Department of Applied Mathematics, University of Western Ontario
- Ruriko Yoshida, Department of Statistics, University of Kentucky
- Cornelia Yuen, Department of Mathematics, University of Kentucky
- Zhonggang Zeng, Department of Mathematics, Northeastern Illinois University
- Mingfu Zhu, Department of Mathematical Sciences, Clemson University

- 1997–1998 Emerging Applications of Dynamical Systems
- 1998–1999 Mathematics in Biology
- 1999–2000 Reactive Flows and Transport Phenomena
- 2000–2001 Mathematics in Multimedia
- 2001–2002 Mathematics in the Geosciences
- 2002–2003 Optimization
- 2003–2004 Probability and Statistics in Complex Systems: Genomics,
Networks, and Financial Engineering
- 2004–2005 Mathematics of Materials and Macromolecules: Multiple Scales,
Disorder, and Singularities
- 2005–2006 Imaging
- 2006–2007 Applications of Algebraic Geometry
- 2007–2008 Mathematics of Molecular and Cellular Biology
- 2008–2009 Mathematics and Chemistry

IMA SUMMER PROGRAMS

- 1987 Robotics
- 1988 Signal Processing
- 1989 Robust Statistics and Diagnostics
- 1990 Radar and Sonar (June 18–29)
New Directions in Time Series Analysis (July 2–27)
- 1991 Semiconductors
- 1992 Environmental Studies: Mathematical, Computational, and
Statistical Analysis
- 1993 Modeling, Mesh Generation, and Adaptive Numerical Methods
for Partial Differential Equations
- 1994 Molecular Biology
- 1995 Large Scale Optimizations with Applications to Inverse Problems,
Optimal Control and Design, and Molecular and Structural
Optimization
- 1996 Emerging Applications of Number Theory (July 15–26)
Theory of Random Sets (August 22–24)
- 1997 Statistics in the Health Sciences
- 1998 Coding and Cryptography (July 6–18)
Mathematical Modeling in Industry (July 22–31)
- 1999 Codes, Systems, and Graphical Models (August 2–13, 1999)
- 2000 Mathematical Modeling in Industry: A Workshop for Graduate
Students (July 19–28)
- 2001 Geometric Methods in Inverse Problems and PDE Control
(July 16–27)
- 2002 Special Functions in the Digital Age (July 22–August 2)

- 2003 Probability and Partial Differential Equations in Modern Applied Mathematics (July 21–August 1)
- 2004 n-Categories: Foundations and Applications (June 7–18)
- 2005 Wireless Communications (June 22–July 1)
- 2006 Symmetries and Overdetermined Systems of Partial Differential Equations (July 17–August 4)
- 2007 Classical and Quantum Approaches in Molecular Modeling (July 23–August 3)
- 2008 Geometrical Singularities and Singular Geometries (July 14–25)

IMA “HOT TOPICS” WORKSHOPS

- Challenges and Opportunities in Genomics: Production, Storage, Mining and Use, April 24–27, 1999
- Decision Making Under Uncertainty: Energy and Environmental Models, July 20–24, 1999
- Analysis and Modeling of Optical Devices, September 9–10, 1999
- Decision Making under Uncertainty: Assessment of the Reliability of Mathematical Models, September 16–17, 1999
- Scaling Phenomena in Communication Networks, October 22–24, 1999
- Text Mining, April 17–18, 2000
- Mathematical Challenges in Global Positioning Systems (GPS), August 16–18, 2000
- Modeling and Analysis of Noise in Integrated Circuits and Systems, August 29–30, 2000
- Mathematics of the Internet: E-Auction and Markets, December 3–5, 2000
- Analysis and Modeling of Industrial Jetting Processes, January 10–13, 2001
- Special Workshop: Mathematical Opportunities in Large-Scale Network Dynamics, August 6–7, 2001
- Wireless Networks, August 8–10 2001
- Numerical Relativity, June 24–29, 2002
- Operational Modeling and Biodefense: Problems, Techniques, and Opportunities, September 28, 2002
- Data-driven Control and Optimization, December 4–6, 2002
- Agent Based Modeling and Simulation, November 3–6, 2003
- Enhancing the Search of Mathematics, April 26–27, 2004
- Compatible Spatial Discretizations for Partial Differential Equations, May 11–15, 2004
- Adaptive Sensing and Multimode Data Inversion, June 27–30, 2004
- Mixed Integer Programming, July 25–29, 2005
- New Directions in Probability Theory, August 5–6, 2005
- Negative Index Materials, October 2–4, 2006

- The Evolution of Mathematical Communication in the Age of Digital Libraries, December 8-9, 2006
- Math is Cool! and Who Wants to Be a Mathematician?, November 3, 2006
- Special Workshop: Blackwell-Tapia Conference, November 3-4, 2006
- Stochastic Models for Intracellular Reaction Networks, May 11-13, 2008

SPRINGER LECTURE NOTES FROM THE IMA:

The Mathematics and Physics of Disordered Media

Editors: Barry Hughes and Barry Ninham
(Lecture Notes in Math., Volume 1035, 1983)

Orienting Polymers

Editor: J.L. Ericksen
(Lecture Notes in Math., Volume 1063, 1984)

New Perspectives in Thermodynamics

Editor: James Serrin
(Springer-Verlag, 1986)

Models of Economic Dynamics

Editor: Hugo Sonnenschein
(Lecture Notes in Econ., Volume 264, 1986)

IMA VOLUMES

Volume 142: Compatible Spatial Discretizations

Editors: Douglas N. Arnold, Pavel B. Bochev, Richard B. Lehoucq,
Roy A. Nicolaides, and Mikhail Shashkov

Volume 143: Wireless Communications

Editors: Prathima Agrawal, Daniel Matthew Andrews, Philip J. Fleming,
George Yin, and Lisa Zhang

Volume 144: Symmetries and Overdetermined Systems of Partial Differential Equations

Editors: Michael Eastwood and Willard Miller, Jr.

Volume 145: Topics in Stochastic Analysis and Nonparametric Estimation

Editors: Pao-Liu Chow, Boris Mordukhovich, and George Yin

Volume 146: Algorithms in Algebraic Geometry

Editors: Alicia Dickenstein, Frank-Olaf Schreyer, and Andrew J. Sommese

Volume 147: Symmetric Functionals on Random Matrices and Random

Matchings Problems by Grzegorz A. Rempala and Jacek Wesolowski

The full list of IMA books can be found at the website of Institute for Mathematics and its
Applications: <http://www.ima.umn.edu/springer/volumes.htm>