



Mathematics Calendar

This section contains new announcements of worldwide meetings and conferences of interest to the mathematical public, including ad hoc, local, or regional meetings, and meetings and symposia devoted to specialized topics, as well as announcements of regularly scheduled meetings of national or international mathematical organizations. New announcements only are published in the print Mathematics Calendar featured in each *Notices* issue.

An announcement will be published in the *Notices* if it contains a call for papers and specifies the place, date, subject (when applicable), and the speakers. A second announcement will be published only if there are changes or necessary additional information. Asterisks (*) mark those announcements containing revised information.

In general, print announcements of meetings and conferences carry only the date, title of meeting, place of meeting, names of speakers (or sometimes a brief statement on the program), deadlines for abstracts or contributed papers, and source of further information. If there is any application deadline with respect to participation in the meeting, this fact should also be noted.

The complete listing of the Mathematics Calendar is available at: www.ams.org/meetings/calendar/mathcal

All submissions to the Mathematics Calendar should be done online via: www.ams.org/cgi-bin/mathcal/mathcal-submit.pl

Any questions or difficulties may be directed to mathcal@ams.org.

March 2016

18 – 22 CRM Nirenberg Lectures in Geometric Analysis

Location: *Centre de Recherches Mathématiques, Université de Montréal, Pavillon André-Aisenstadt, 2920, Chemin de la tour, Montréal (Quebec), CANADA*

Three lectures to be given by Gunther Uhlmann (University of Washington); Harry Potter's Cloak via Transformation Optics, Journey to the Center of the Earth, and Seeing Through Space-Time

URL: www.crm.umontreal.ca/Nirenberg2016

April 2016

1 – 3 2016 Redbud Topology Conference

Location: *University of Oklahoma, Norman, OK*

The Redbud Topology Conference is a regional conference in topology and related areas, with participants from the University of Arkansas, the University of Oklahoma, Oklahoma State University, and elsewhere. The theme of the 2016 Redbud Topology Conference will be centered around current topics in geometric group theory and low-dimensional topology. Invited Speakers: Tarik Aougab (Brown), David Cohen (U of Chicago), Thomas Koberda (Virginia), Kathryn Mann (Berkeley), Denis Osin (Vanderbilt), Piotr Przytycki (McGill), Jenya Sapir (UIUC), and Robert Young (Courant).

URL: www.math.ou.edu/redbud/

2 – 2 The Fourth Midwest Women in Mathematics Symposium

Location: *University of Illinois at Urbana-Champaign, Urbana, IL*

Motivated by the successful WIMS in Southern California, the University of Illinois at Chicago launched the first Midwest WIMS in 2013. Previous symposia were held at the University of Notre Dame and Dominican University and they were well received. The 4th Midwest WIMS intends to recognize and advocate collective achievements by female mathematicians in the Midwest, and to stimulate collaborations, networking, and mentoring relations. The symposium will bring together female mathematicians in the Midwest at all stages of their careers.

URL: math.illinois.edu/wims/

2 – 3 Texas Algebraic Geometry Symposium

Location: *The University of Texas at Austin*

Annual rotating conference between Rice, UT Austin, and Texas A&M on algebraic geometry, interpreted broadly. Interested participants can apply for funding on the conference website.

URL: www.ma.utexas.edu/users/hwilliams/TAGS2016/index.html

8 – 8 Columbia-Princeton Probability Day 2016

Location: *Columbia University, New York, NY*

Main Speakers: Rick Kenyon (Brown), Joel Lebowitz (Rutgers), Allan Sly (Berkeley), Peter Winkler (Dartmouth); Junior Speakers: Guillaume Barraquand (Columbia), Hao Shen (Columbia). Registration is free on the probability day website.

URL: www.math.columbia.edu/departement/probability/cpday16/cpday16.html

11 – 15 Advanced Course on Piecewise Smooth Dynamical Systems

Location: *Bellaterra, Barcelona, Spain*

This course will give a postgraduate level introduction to piecewise smooth (or nonsmooth) dynamical systems. We cover the central concepts and key methods for maps or flows with discontinuities, from the fundamental theory to recent advances. The advanced course is part of the Intensive Research Program being held at the CRM (Intensive Research Program: Advances in Nonsmooth Dynamics).

URL: www.crm.cat/en/Activities/Curs_2015-2016/Pages/ACPSD.aspx

14 – 16 INTERNATIONAL CONFERENCE ON APPLIED MATHEMATICS AND NUMERICAL METHODS (ICAMNM)

Location: *Department of Applied Mathematics, University of Craiova, Romania, Craiova, Romania.*

The event is dedicated to the memory of Dr. Romulus Militaru (1968-2015). Invited speakers: Mihai ANASTASIEI, Vladimir BALAN, Aurel BEJANCU, Ismail Naci CANGUL, Doina CIORANESCU, Mircea CRASMAREANU, Jean-Marie CROLET, Horia ENE, Calin-Ioan GHEORGHIU, Anca Veronica ION, Marin MARIN, Sorin MICU, Costică MOROSANU, Gheorghe

MUNTEANU, Bogdan NICOLESCU, Grigory PANASENKO, Mi-hai POSTOLACHE, Radu PURICE, Vicentiu RADULESCU, Ana RIBEIRO, Mircea SOFONEA, Claudia TIMOFTE, Sanda TIGOIU, Victor TIGOIU, Constantin UDRISTE

URL: cis01.central.ucv.ro/ICAMNM/

URL:

www.ucv.ro/departamente_academice/dma/ICAMNM2016/home.php

15 - 17 **Eastern Illinois Integrated Conference in Geometry, Dynamics, and Topology**

Location: *Eastern Illinois University, Charleston, IL*

Integrated conference featuring the involvement of undergraduates, graduate students, and leading faculty researchers.

URL: <https://ux1.eiu.edu/~gdt/2016.html>

15 - 17 **41st Arkansas Spring Lecture Series in the Mathematical Sciences: Submanifolds in Contact Topology**

Location: *Fayetteville, Arkansas*

This year's Spring Lecture Series will be headlined by John Etnyre and with a public lecture by Reviel Netz. The conference will focus on "Submanifolds in Contact Topology" and recent results broadening our understanding of contact structures both in dimension three and higher dimensions. There will be a graduate workshop on Thursday, April 14th.

URL: comp.uark.edu/~jv002/s1s.html

May 2016

7 - 8 **77th Midwest PDE Seminar**

Location: *University of Cincinnati, Cincinnati, Ohio*

The Midwest PDE Seminar has run semiannually since 1977, bringing together researchers to share and discuss the latest analytical and numerical results on all aspects of partial differential equations. All interested researchers are encouraged to attend, and junior researchers can apply for travel support.

URL: math.uc.edu/midwest-pde/

9 - 12 **Simons Conference on Random Graph Processes**

Location: *University of Texas, Austin, Texas, USA*

This workshop, funded by the Simons Foundation, is the third in a series of meetings organized at UT Austin on related topics, alternating yearly in an emphasis on mathematics one year, and on network applications the next. The 2016 workshop will again be on the mathematics of stochastic processes and graphs, this time focusing on the studies of processes in, and on, large graphs. Our aim is to bring together a diverse set of eminent researchers from various communities in this broad subject, to give a global picture which will hopefully lead to interactions and cross-fertilization.

URL: www.ma.utexas.edu/conferences/simons2016/

9 - 13 **Cultural Patterns: Multi-scale Data-driven Models - Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, CA.**

Location: *UCLA, Los Angeles, CA*

The proliferation of cultural data has given data-driven approaches a significant edge in modeling various cultural phenomena. This workshop focuses on such approaches that make use of mathematical tools in machine learning, data mining, network science, and computational social

science. We are particularly interested in presenting methods, both normative and descriptive, that offer a gestalt or structure-first approach to culture analysis and that provide a multi-layered summarization of these phenomena suitable for exploration at multiple scales. These models are applied to various datasets such as social and information networks, social media, narrative and story detection in texts, group dynamics or behavior, and collaboration and competition leading to emergent behavior. The application deadline for funding is March 14, 2016.

URL: www.ipam.ucla.edu/programs/workshops/workshop-iii-cultural-patterns-multiscale-data-driven-models/

9 - 13 **Advances in Geometric Representation Theory**

Location: *University of Michigan, Ann Arbor, MI*

This conference will showcase results spanning the current landscape of geometric representation theory. Some travel support is available for graduate students and junior researchers. Applications for funding must be submitted by March 6.

URL: www-personal.umich.edu/~snkitche/Conference/

14 - 15 **Graduate Student Conference in Algebra, Geometry, and Topology**

Location: *Temple University, Philadelphia, PA*

This conference aims to expose graduate students in algebra, geometry and topology to current research, and provide them with an opportunity to present and discuss their own research. It also intends to provide a forum for graduate students to engage with each other as well as expert faculty members in their areas of research. Most of the talks at the conference will be given by graduate students, with four given by distinguished keynote speakers.

URL: math.temple.edu/events/gscagt/index.html

16 - 20 **New Challenges for the Calculus of Variations Stemming From Problems in the Materials Sciences and Image Processing - In Honour of the 60th Birthday of Irene Fonseca**

Location: *Centre de Recherches Mathématiques, Université de Montréal, Pavillon André-Aisenstadt, 2920, Chemin de la tour, Montréal (Québec), CANADA*

Much work in the contemporary calculus of variations is directly driven by current problems in materials sciences and computer vision. In addition, variational approaches to these problems have proven very fruitful, for example, in rigorously deriving reduced models that can be readily addressed computationally. Examples include the mathematical study of shape memory alloys, ferroelectric and magnetic materials, composites, liquid crystals, thin structures, phase transitions, epitaxy, and image segmentation, staircasing and recolorization in computer vision. In all these areas, regularity and convergence results in particular directly impact the ability to perform reliable computations. This workshop will bring together both world experts and young researchers, addressing these problems from different directions. It will also serve to celebrate Irene Fonseca on the occasion of her 60th birthday for her many research accomplishments, the impact she has had on the careers of many students and postdocs, and the tireless work she has done to promote the modern calculus of variations worldwide. A banquet will

be held in honor of Irene on the Wednesday evening (May 18, 2016). Tickets are \$65 and should be purchased via the online registration form.

URL: www.crm.umontreal.ca/2016/Fonseca16/index_e.php

16 – 20 **NSF/CBMS Regional Research Conference on Discrete Painlevé Equations**

Location: *The University of Texas Rio Grande Valley, School of Mathematical and Statistical Sciences, Edinburg, Texas, USA*
Principal Speaker: Professor Nalini Joshi, Georgina Sweet Australian Laureate Fellow in mathematics, Chair of Applied Mathematics at the University of Sydney. The conference speakers will describe the properties of discrete Painlevé equations and discuss tremendous new research developments in the field. The main lectures and the supplemental lectures plan to address the following major themes: (1) the basic theory of nonlinear difference equations; (2) the connection between discrete integrable systems and continuous integrable systems; (3) the connection of geometry with discrete Painlevé equations, especially the discrete Painlevé equation; (4) asymptotic analysis of discrete Painlevé equations; and (5) obtaining special solutions through elementary methods such as Hirota's bilinear form and Bäcklund and other transformations.

URL: sites.google.com/site/nsfcbms2016utrgv/

16 – 20 **The p-adic Langlands Program and Related Topics**

Location: *Indiana University Bloomington*

The purpose of the conference is to bring together experts working in the p-adic Langlands Program and related areas, and to provide an overview of current research pursued in fields like: representations of p-adic reductive groups in characteristic p, p-adic Banach space representations and locally analytic representations, p-adic Galois representations and their deformation spaces, p-adic Hodge Theory, (φ, γ) -modules, eigenvarieties, and p-adic automorphic forms.

URL: pages.iu.edu/~mstrauch/conference_2016

16 – 20 **Workshop: Categorification**

Location: *Mathematical Institute of the University of Bonn, Bonn, Germany*

The aim of this workshop is to bring together researchers interested in categorical representation theory and their applications, as well as students or researchers from related fields.

URL: www.math.uni-bonn.de/people/dtubben/categorification2016.html

17 – 20 **Geometric Structures related to Hermitian and Almost Hermitian Manifolds**

Location: *Leibniz University, Hanover, Germany*

The workshop is organized by the DFG funded Research Training Group 1463 "Analysis, Geometry and String Theory" jointly with the Institute of Differential Geometry of Leibniz University Hanover and its idea is to bring together young mathematicians and senior experts in the field. The program of the workshop includes research talks and two four-hour mini-courses: Vicente Cortés (University of Hamburg): "Constructions of Quaternionic Kähler Manifolds" Simon

Salamon (King's College London): "Almost Hermitian Metrics and Twistor Spaces"

URL: www.math-conf.uni-hannover.de/hermitian2016

17 – 20 **The 10th International Conference on PROGRESS ON DIFFERENCE EQUATIONS (PODE2016)**

Location: *Academic Center for Natural Sciences of the University of Latvia, Jelgavas Str. 1, Riga, LATVIA*

This conference continues in the line of other PODE conferences: Laufen (Germany) in 2007 and 2008, Bedlewo (Poland) in 2009, Xanthi (Greece) in 2010, Dublin (Ireland) in 2011, Richmond (Virginia, USA) in 2012, Bialystok (Poland) in 2013, Izmir (Turkey) in 2014, Covilhã (Portugal) in 2015. This conference, held under the auspices of the International Society for Difference Equations, aims to be a forum where researchers can share their work and discuss the latest developments in the areas of difference equations, discrete dynamical systems and their applications.

URL: www.lu.lv/pode2016/

18 – 20 **Spectra of graphs and applications (SGA 2016)**

Location: *Serbian Academy of Sciences and Arts, Belgrade, Serbia*

Mathematical institute of the Serbian Academy of Sciences and Arts is organizing a conference in honor of Professor Drago Cvetkovic for his 75th birthday. Invited speakers are: • Willem Haemers (Tilburg): Spectral characterizations of graphs • Jack Koolen (Hefei): On graphs with smallest eigenvalue at least -3 • Vilmar Trevisan (Porto Alegre): Recent developments on Laplacian eigenvalue distribution • Christoph Helmberg (Chemnitz): A semidefinite programming view on spectral properties of graph Laplacians. Participants may present short contributions of 20 minutes, related to spectral properties of matrices associated with graphs. A booklet of abstracts will be available at the conference, while selected papers may be submitted to a special issue of the journal *Publ. Inst. Math., Nouv. Ser.* Such papers will undergo a standard peer review procedure.

URL: www.mi.sanu.ac.rs/conferences/sga2016.htm

29 – June 1 **Workshop on Dynamical Systems and Operator Algebras**

Location: *University of Ottawa, Ottawa, Canada*

This 4-day workshop concerns the relationship between operator algebras and dynamical systems. There is some travel support available for graduate students and postdocs. The deadline for application for financial support is March 18.

URL: www.fields.utoronto.ca/programs/scientific/15-16/dynamical/

June 2016

1 – 4 **Topology in dimension 3.5: A conference in memory of Tim Cochran**

Location: *Rice University Houston, TX*

The Rice University Mathematics Department, with support from the National Science Foundation, is hosting a conference on knot and link concordance, 3- and 4-dimensional manifolds, and related areas. This conference is dedicated to the memory of our colleague and friend Tim Cochran,

who was a leading figure in low-dimensional topology, particularly knot theory. Limited funding is available. Graduate students, recent PhDs, and mathematicians in underrepresented groups working in low-dimensional topology are especially encouraged to apply.

URL: math.rice.edu/NewsEvents/Conferences/TopologyConference2016/

1 - 9 SEAMS School 2016 "Mathematical and Numerical Modelling for Wave Dynamics"

Location: *Institut Teknologi Bandung, Bandung, West Java, Indonesia*

This SEAMS school will provide the basic knowledge of wave dynamics. Applications on environmental waves, including tsunami, will also be discussed. From hands-on tutorials, participants will get a chance to explore their numerical skill and get deeper insight of the phenomena. Moreover, the students will be introduced to the active area of researches in this field.

URL: www.math.itb.ac.id/seams2016/

5 - 10 AU Workshop on Stochastic Geometry, Stereology and their Applications

Location: *Sandbjerg Estate, Sønderborg, Denmark*

This interdisciplinary workshop will bring together scientists from integral geometry, geometric probability, geometric measure theory, stochastic geometry, stereology, applied probability, spatial statistics and bioimaging. An important scope of the workshop is to discuss recent theoretical advances in stochastic geometry and their potential for applications.

URL: csgb.dk/activities/2016/stochgeom/

7 - 10 NoLineal 2016 International Conference on nonlinear mathematics and physics

Location: *Seville, Spain*

Dear Colleague, We are organizing a conference, called "No-lineal 2016", in Seville, Spain, 7th-10th June 2016. We would very much like you to attend. For pre-registration, submission of abstracts, and/or inclusion in our mailing list, please register on our webpage. Confirmed plenary speakers: Leonor Cruzeiro (Portugal), Mathieu Desroches (France), Jordi García-Ojalvo (Spain), Frank Jülicher (Germany), Eduardo Liz (Spain), Albert J. Sievers (USA), Manuel G. Velarde (Spain), Francisco R. Villatoro (Spain). Relevant dates: • Pre-registration: before 15th February, 2016. • Reception of Abstracts: before 15th February 2016. • Notice of Acceptance: before 29th February, 2016. • Early payment and full inscription: from 1st January to 31st March, 2016. • Late payment and full inscription: from 1st April to 20th May, 2016. The organizing committee.

URL: congreso.us.es/nolineal16

9 - 11 International Workshop on Information Security, Assurance, and Trust (I-SAT 2016)

Location: *New York Institute of Technology Vancouver, BC, Canada*

The International Workshop on Information Security, Assurance, and Trust (I-SAT2016) Workshop will be held on June 9 to 11, New York Institute of Technology (NYIT) Campus, Vancouver, BC, Canada. The goal of this workshop is to provide a forum for researchers, scientists and engineers working in academia and industry to share their experiences, new ideas

and research results in the areas of information and system security, assurance, and trust. I-SAT2016 will address novel research targeting technical aspects of protecting information security and establishing trust in the digital space. New paradigms and solutions targeting emerging topics in such fields will be presented and discussed by researchers and industrial experts.

URL: i-sat.ca

13 - 14 ECSTATIC 2 - Early Career Stage Topologists AT Imperial College

Location: *Imperial College, London (UK)*

ECSTATIC is a two-day conference in all branches of topology, aimed primarily at young and early career stage researchers (ie Ph.D. students and postdocs) working in the field. All participants are very encouraged to give a talk, either on the field they are working in or some of their own research.

URL: wwwf.imperial.ac.uk/~th2109/ecstatic/

13 - 16 L-functions and Arithmetic: A conference in honor of the 60th Birthday of Karl Rubin

Location: *Harvard University, Cambridge, MA*

This conference will bring together a community of researchers to discuss elliptic curves, L-functions, Iwasawa theory, Euler systems, and related topics, and to celebrate Karl Rubin's 60th birthday. The invited speakers are Massimo Bertolini, Manjul Bhargava, David Burns, Mirela Çiperiani, John Coates, Henri Darmon, Ralph Greenberg, Haruzo Hida, Kiran Kedlaya, Jan Nekovář, Bjorn Poonen, Christopher Skinner, Glenn Stevens, Andrew Wiles, Melanie Matchett Wood, Sarah Zerbes.

URL: www.math.harvard.edu/conferences/rubin16/

14 - 17 6th Croatian Mathematical Congress

Location: *Department of Mathematics, Faculty of Science, University of Zagreb, Zagreb, Croatia*

Croatian Mathematical Congress is a central mathematical event in Croatia organized every four years. The scientific program features plenary and invited talks by distinguished senior scientists, Croatian Mathematical Society Award Lecture, as well as contributed section talks and poster presentations. A primary aim of the congress is to present a broadest possible overview of the activities of the mathematical community as well as to host panel discussions on topics of current interest to mathematical community.

URL: web.math.pmf.unizg.hr/congress15/

16 - 17 GROUP THEORY IN FLORENCE: A MEETING IN HONOUR OF GUIDO ZAPPA

Location: *Department of Mathematics and Informatics "U. Dini", Università di Firenze, Firenze, Italy*

The aim of the conference is to bring together experts in different aspects of group theory. The main themes of the meeting include representation theory of finite groups, permutation groups and infinite group theory. INVITED SPEAKERS: Gunter Malle (Kaiserslautern), Francesco Matucci (Campinas), Gabriel Navarro (Valencia), Pablo Spiga (Milano), Gunnar Traustason (Bath).

URL: <https://groupsinflorencewordpress.wordpress.com/>

17 - 19 **Great Lakes Mathematical Physics Meeting 2016**

Location: *Michigan State University, East Lansing, MI*
GLaMP2016 is a mathematical physics meeting with a mini-course for young researchers on Friday, 17 June, by Vojkan Jaksic, McGill University, on nonequilibrium statistical mechanics. Saturday and Sunday will feature talks by confirmed speakers: Antonio Auffinger (Northwestern), Alexander Elgart (Virginia Tech), Birgit Kaufmann (Purdue), Kay Kirkpatrick (Illinois), Jun Yin (Wisconsin), a round-table discussion on careers, and short talks by young researchers. Some financial support is available. See the web page for details.

URL: sites.google.com/a/msu.edu/instmathphys/glamp2016

20 - 24 **International Conference on Complex Analysis and Related Topics - The 14th Romanian-Finnish Seminar**

Location: *Simion Stoilow Institute of Mathematics of the Romanian Academy, Bucharest, Romania*

The meeting is organized by Simion Stoilow Institute of Mathematics of the Romanian Academy, Faculty of Mathematics and Computer Science of the University of Bucharest, in cooperation with the Universities of Helsinki and Turku from Finland. Organizing committee: Honorary chairs: C. Andreian Cazacu (Bucharest), N. Boboc (Bucharest), I. Laine (Joensuu), O. Martio (Helsinki), P. T. Mocanu (Cluj-Napoca) Members: L. Bezne (Bucharest, co-chair), M. Cristea (Bucharest), A. Gheondea (Ankara and Bucharest, co-chair), P. Hasto (Turku), C. Joita (Bucharest), J. Kinnunen (Helsinki), G. Kohr (Cluj-Napoca), R. Korhonen (Joensuu), M. Vuorinen (Turku). The program is divided into sections as follows: 1. Geometric function theory and classical complex analysis. 2. Quasiconformal mappings, Teichmüller spaces, metric geometry and related topics in classical analysis. 3. Potential theory and PDEs, geometric analysis, complex geometry, functional analytical methods in complex geometry, functional analytical methods in complex analysis.

URL: imar.ro/RoFinSem2016/conf.php

21 - 29 **2016 Summer School on Fractal Geometry and Complex Dimensions**

Location: *Cal Poly, San Luis Obispo, CA, USA*

The 2016 Summer School on Fractal Geometry and Complex Dimensions (In celebration of the 60th birthday of Michel Lapidus) is a 9-day event featuring: mini-courses on complex dimensions, analysis on fractals, and quasicrystals/noncommutative geometry; plenary lectures by some of the preeminent mathematicians in fractal geometry and related fields; and talks and posters presented by participants. Graduate students, newly minted PhDs, and people with strong mathematical backgrounds who are interested in learning about fractal geometry from the experts are encouraged to attend. This event is supported by a conference grant from the Division of Mathematical Sciences (DMS) of the National Science Foundation.

URL: www.calpoly.edu/~eeparse/Fractals2016/

26 - July 1 **School: Abecedarian of SIDE**

Location: *Pavillon André-Aisenstadt, Université de Montréal, Montréal, CANADA*

SIDE is a summer school for ECRs in the field of symmetries and integrability of difference equations preceding the international conference in the same field: SIDE. The first edition

of the school was held just before SIDE 10 (2012, China). The breadth of the field of discrete integrable systems continually deepens as new research discovers myriad relationships between it and a spectrum of different areas of mathematics. As such, it takes years to properly appreciate all of the ideas presented at SIDE meetings. ASIDE acts to fast-track this development and equip ECR's with a basic understanding of the fundamental aspects of the field so that it is within their compass to comprehend the bulk of the presentations at the following SIDE conference.

URL: www.crm.umontreal.ca/2016/ASIDE16/index_e.php

27 - July 2 **CNRS-PAN Mathematics Summer Institute, Cracow, Poland, 27 June - 2 July, 2016**

Location: *Cracow, Poland*

Analysis/Stochastic Analysis Minicourses: - Ari Laptev - TBA.....

URL: www.impan.pl/~peszat/

25 - July 6 **PIMS Summer School 2016 in Mathematical Finance**

Location: *University of Alberta, Edmonton, Canada*

The summer school has two themes with the following speakers: 1. Informational and Imperfect Financial Markets (June 25 to June 29): Marek Rutkowski (University of Sydney), Agnès Sulem (INRIA Paris-Rocquencourt) and Thaleia Zariphopoulou (University of Texas at Austin). 2. Market Microstructure and Algorithmic Trading (July 2 to July 6): Robert Almgren (Quantitative Brokers), Alvaro Cartea (University of Oxford) and Sebastian Jaimungal (University of Toronto).

URL: www.mathfinance2016.com

July 2016

4 - 8 **CIME Course "Nonlocal and nonlinear diffusions and interactions: new methods and directions"**

Location: *Hotel San Michele, Loc. Bosco, 8/9 - 87022 Cetraro (CS), ITALY*

Application is open until April 30, 2016. 5 courses of 5 hours each taught by: J. A. Carrillo (Imperial College London, UK) Swarming models with repulsive-attractive effects: derivation, model hierarchies and pattern stability. M. del Pino (Univ. de Chile, Chile) Bubbling blow-up in critical parabolic problems A. Figalli (Univ. Texas Austin, USA) Regularity results for local and nonlocal energy interactions. G. Mingione (Univ. di Parma, Italy) Recent progresses in nonlinear potential theory. J. L. Vázquez (Univ. Autonoma de Madrid, Spain) Nonlinear diffusion equations with fractional laplacian operators.

URL: web.math.unifi.it/users/cime/

4 - 9 **Conference on Ulam's Type Stability**

Location: *Cluj-Napoca, Romania*

The conference is organized by Department of Mathematics of Technical University of Cluj-Napoca in cooperation with Department of Mathematics of Babes-Bolyai University, Department of Mathematics of Pedagogical University of Cracow, and Faculty of Applied Mathematics of AGH University of Science and Technology. The participants are invited to give talks on stability of difference, differential, functional and integral equations; stability of inequalities and other

mathematical objects; hyperstability and superstability; various (direct, fixed point, invariant mean, etc.) methods for proving Ulam's type stability results; generalized (in the sense of Aoki and Rassias, Bourgin and Gavruta) stability; stability on restricted domains and in various (metric, Banach, non-Archimedean, fuzzy, quasi-Banach, etc.) spaces, relations between Ulam's type stability and fixed point results, and related topics. Moreover, some special invited plenary lectures are planned.

URL: cuts.up.krakow.pl

4 - 14 2016 CRM Summer School - Spectral theory and applications

Location: *Université Laval Quebec City Quebec*

The goal of the 2016 CRM Summer School in Quebec City is to prepare students for research involving spectral theory. The school will give an overview of a selection of topics from spectral theory, interpreted in a broad sense. It will cover topics from pure and applied mathematics, each of which will be presented in a 5-hour mini-course by a leading expert. These lectures will be complemented by supervised computer labs and exercise sessions. At the end of the school, invited speakers will give specialized talks. This rich subject intertwines several sub-disciplines of mathematics, and it will be especially beneficial to students. The subject is also very timely, as spectral theory is witnessing major progresses both in its mathematical sub-disciplines and in its applications to technology and science in general. The school is intended to advanced undergraduate students. As such, the prerequisites will be kept at a minimum, and review material will be provided a few weeks before the event.

The full program including the shorter talks schedule will be announced later.

URL: www.crm.umontreal.ca/2016/Quebec16/

5 - 8 5th International Conference on Uniform Distribution Theory

Location: *Sopron, Hungary*

Sopron is a beautiful old town of population about 65000 with a medieval centre. By Japanese travel agents, Sopron is among the 30 most beautiful towns in Europe. Its medium size university with six faculties is one of the most significant centres of the higher education in Transdanubia. The city is located at the foothill of the Alps near the Austrian border and the Fertő Lake (Neusiedler See in German), and it can be reached easily by both train (from Vienna or Budapest) and car. The conference will take place in Sopron Hotel (H-9400 Sopron, Fővényverem utca 7, email: info@hotelsopron.hu). There will be lectures of length 30 minutes on one of the subjects listed on the back side of the front cover of the journal *Uniform Distribution Theory* but, depending on the number of participants, parallel sections might be necessary. The deadline for formal online registration is April 30.

URL: udt2016.inf.uni.deb.hu/

5 - 9 Conference on Differential Geometry - Honouring Claude Lebrun

Location: *UQAM (downtown Montréal) Pavillon Sherbrooke 200, Sherbrooke St West Room: SH-3420 Montréal, Canada*

Honouring Claude LeBrun's mathematical contributions, this conference aims to foster interaction among various topics of Differential Geometry, Geometric Analysis, and Mathematical Physics, centered around hot areas of current research.

Specifically, the conference will explore on the following subjects: Special structures in geometry and physics; Complex methods in conformal geometry and twistor theory; Extremal Kähler metrics. The primary aim of the conference is to gather together leading experts in the above topics, to discuss recent advances and new directions of research in these vibrant areas, and to expose graduate students and young mathematicians to these exciting developments.

URL: www.crm.umontreal.ca/2016/LeBrunFest16/

5 - 9 New Methods in Finsler Geometry

Location: *Department of Mathematics, Leipzig University Paulinum, Augustusplatz 10, D-04109 Leipzig Germany*

ORGANIZERS: Vladimir Matveev (Jena), Hans-Bert Rademacher (Leipzig). The conference is a Satellite Event of the 7th European Congress of Mathematics, July 18-July 22, Berlin and is supported by DFG. **GOALS:** In the last decade a number of problems in Finsler geometry were solved by mathematicians, who do not consider Finsler geometry as their main field of expertise. These scientists usually work in Riemannian geometry, dynamical systems or in metric or convex geometry. We want to bring together these mathematicians with specialists in Finsler geometry to enable new collaborations. **ADDITIONAL INFORMATION:** List of speakers, instructions how to register and how to suggest a presentation are on our website. There will be no official proceeding of the conference but *European Journal of Mathematics* www.springer.com/mathematics/algebra/journal/40879 will have a special issue on Finsler Geometry with submission deadline in December 2016.

URL: www.math.uni-leipzig.de/Finsler2016/

7 - 9 6th IMS-FIPS (Finance, Insurance, Probability and Statistics) Workshop

Location: *University of Alberta, Edmonton, Canada*

The primary purpose of the Sixth IMS-FIPS Workshop is to bring together a global cast of leading academic experts, practitioners and junior researchers to share research that underscores the contributions of probability and statistics to the development of quantitative models, methods, techniques and technologies in the fields of finance and insurance. The workshop takes place immediately after the PIMS Summer School 2016 in Mathematical Finance at the same location.

URL: www.mathfinance2016.com

11 - 11 Mathematics and Science Fiction: Visions for the year $2^{11} = 2048$

Location: *Akademiegebäude am Gendarmenmarkt, Leibniz-Saal, Markgrafenstrasse 38, 10117 Berlin, GERMANY*

Even today, in 2016, mathematics rules "behind the scenes": technologies and strategies with a lot of "Math Inside" influence everyday life and allow progress - visible in architecture and in the cinema, often unnoticed in the financial and telecommunications industries, and also in the life sciences and in transport, logistics and traffic. What can mathematics achieve today, which would have still seemed like science fiction $2^5 = 32$ years ago? What can we expect and hope for in 2^5 years = 32 years - and which visions do the experts have for the year $2^{11} = 2048$? Prof. Christof Schütte (ZIB Berlin): "□Drugs, medicine and mathematics". Prof. Johannes Buchmann (TU Darmstadt): "Prime Numbers, quanta and the

Internet". Prof. Günter M. Ziegler (FU Berlin/Hector Fellow): "Our mathematical future".

URL:

www.hector-fellow-academy.de/en/veranstaltungen/unterpunkt-1/2016.html

11 - 15 International Conference "Groups and Rings - Theory and Applications (GRiTA2016)"

Location: *Institute of Mathematics and Informatics at the Bulgarian Academy of Sciences, Sofia, Bulgaria*

The Conference is a satellite event to the 7th European Congress of Mathematics and is organized by Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Department of Mechanics and Mathematics, Moscow State University, Department of Mathematics and Statistics, Memorial University of Newfoundland, Institute of Exact Sciences, University of Brasilia. The topics include combinatorial and geometric group theory, combinatorial and computational ring theory, the theory of PI-algebras, commutative and noncommutative invariant theory, automorphisms of free algebras, graded associative, Lie, and Jordan algebras and superalgebras, scientific computing, coding theory, cryptography, and statistics. The Conference is dedicated to the 70th birthday of Yuri Bahturin, University Research Professor and Director of Atlantic Algebra Centre at Memorial University of Newfoundland (St. John's, Canada), and Professor at Moscow State University (Russian Federation).

URL: www.math.bas.bg/algebra/GRiTA2016/

11 - 15 Workshop on Classical and Quantum Integrable Systems - CQIS'16

Location: *Euler International Mathematical Institute, St. Petersburg, Russia*

Main topics of the conference include: classical and quantum integrable models; quantum field theory, conformal field theory, AGT correspondence; quantum groups, cluster algebras, and other mathematics related to integrable systems.

URL: www.pdmi.ras.ru/EIMI/2016/CQIS/index.html

11 - 17 Foliations 2016 - Pawel Walczak's 50 years in mathematics

Location: *Conference Center of the Mathematical Institute of the Polish Academy of Sciences, Bedlewo, Poland*

The conference is intended to cover all classical and contemporary aspects of the foliation theory with topics influencing and influenced by foliations. These include foliations and laminations of 3-manifolds, geometric structures (Riemannian, holomorphic, symplectic, contact, confoliations, Engel), 1- and multidimensional dynamics, group actions, holonomy groups and pseudogroups, extrinsic and conformal geometry of foliated Riemannian manifolds, rigidity, characteristic classes etc. Invited speakers: Juliette Bavard (UPMC), Jonathan Bowden (LMU), Steven Frankel (Yale), Sebastian Hurtado (Chicago), Remi Langevin (Dijon), Olga Lukina (UIC), Kathryn Mann (Berkeley), Hirokazu Maruhashi (Kyoto), Emmanuel Militon (Nice), Andres Navas (Santiago de Chile), Daniel Peralta (ICMAT Madrid), Joaquin Perez (Granada). The conference is a satellite of the 7ECM.

URL: foliations2016.math.uni.lodz.pl

18 - 22 Mathematical Optimisation Down Under (MODU2016)

Location: *RMIT University, Melbourne, Australia*

The workshop is designed to bring together researchers working in various areas of modern mathematical optimisation and to prompt an exchange of ideas between Australian and overseas researchers. The workshop is focussed on the modern aspects of optimisation that involve deep interplay between computational problems and pure mathematical questions. We especially encourage students and early career researchers to participate in this workshop. Organisers can be contacted at modu2016@rmit.edu.au.

URL: www.modu2016.org

18 - 29 São Paulo School of Advanced Science on Algorithms, Combinatorics and Optimization

Location: *University of São Paulo, São Paulo/SP, Brazil*

The São Paulo School of Advanced Science on Algorithms, Combinatorics, and Optimization (SPSAS-ACO) will host a series of short courses and talks on advanced research topics, as well as student poster presentations. The school is aimed at graduate students and young researchers; exceptional undergraduate students may also qualify. The courses will cover topics in coloring sparse graphs, combinatorial stochastic search and selection, geometric packing, graph limits and their applications, harmonic analysis on polytopes, hypergraph containers, the perfect matching polytope and lattice, recent progresses on approximation algorithms for the TSP, the regularity method and blow-up lemmas for sparse graphs, sample complexity and uniform convergence, and semidefinite programming. Local expenses of all participants will be fully covered, and some travel funding will also be provided to most participants. This school is financed by FAPESP, under the SPSAS program.

URL: sp-school2016.ime.usp.br/

19 - 19 PIMS Marsden Memorial Lecture: Richard Schoen

Location: *Banff International Research Station (BIRS), Banff, Alberta, Canada*

Topic: The Constraint Manifold of General Relativity. Abstract: The global study of the space of solutions of the Einstein constraint equations goes back to work of Jerry Marsden and co-workers in the early 1970s. Since that time the subject has evolved in interesting ways. First it has been possible to localize the deformation theory in certain cases to deform solutions inside a chosen region without changing them outside. A second issue which arises in the deformation theory is a derivative loss problem which occurs when one attempts to place a manifold structure on the constraint space of solutions with a finite degree of differentiability. In this general lecture we will give an overview of these issues and developments.

URL: www.pims.math.ca/scientific-event/160719-pmm1rs

19 - 22 Distance in Graph 2016

Location: *Ubud, Bali, Indonesia*

Distance in Graph 2016 (DiGUbud) is a satellite conference of the Asian Mathematical Conference 2016 which will be held from 18 to 22 July 2016 in Ubud, Bali. In this conference, we would like to honor Mirka Miller, who passed away earlier this year, on 2 January. Mirka had made numerous contributions

to graph theory and data security and she had established many deep results connecting to those areas of research. Joe Ryan (The University of Newcastle, Australia) will deliver a commemorative talk and Mirka's academic children will present their joint works with her in a tribute session. The plenary speakers in DiGUBud are: Sandi Klavžar (University of Ljubljana, Slovenia), Jan Kratochvíl (Charles University, Czech Republic), Camino Balbuena Martínez (Universitat Politècnica de Catalunya, Spain)

URL: distanceingraph.org/

19 – 25 Statistical Causal Inference and Applications to Genetics

Location: *Centre de Recherches Mathématiques, Université de Montréal, Pavillon André-Aisenstadt, 2920, Chemin de la tour, Montréal (Québec) CANADA*

We announce an exciting interdisciplinary workshop as part of a month-long research program on causal inference in genetics. Many of the recent breakthroughs in high-dimensional statistics have been driven by problems in genetics, especially by the difficulties associated with inference where the number of covariates (such as SNPs) massively exceeds the number of individual samples. Significant progress towards attacking such problems has been achieved in recent years through methods based on regularization, sparsity, and control of false discovery rates.

URL: www.crm.umontreal.ca/2016/Genetics16/index_e.php

25 – 29 International Conference "Patterns of Dynamics" 2016

Location: *Free University of Berlin, Takustrasse 9, 14195 Berlin, Germany*

The conference will showcase recent advances in dynamical systems theory and their interplay with a wide range of applications in the sciences and engineering. The underlying mathematical theories can help extract structures from experimental observations (real-world dynamics), and conversely, shed light on the formation, dynamics, and control of spatio-temporal patterns in applications. The meeting will bring together speakers who engage with applications, build and develop mathematical techniques, and use mathematical approaches for prediction and control of complex systems. The conference will also honor the long-standing contributions of Bernd Fiedler to these topics. The scientific program will consist of 45-minute keynote lectures, 30-minute invited lectures, 20-minute contributed presentations, and a poster session.

URL: conference.imp.fu-berlin.de/patterns-of-dynamics/home

25 – 29 The Asian Mathematical Conference 2016 (AMC 2016)

Location: *The Asian Mathematical Conference (AMC) 2016 will take place in Bali Nusa Dua Convention Center (BNDCC), Indonesia.*

The Asian Mathematical Conference (AMC) series is a major SEAMS conference, held every 4-5 years since 1990, and hosted by countries in Asia. The first AMC was held in Hong Kong (1990), the second was in Thailand (1995), the third in the Philippines (2000), the fourth in Singapore (2005), the fifth was Malaysia (2009), and sixth AMC was in Busan, Korea (2013). The objective of the conference is to provide a forum for mathematics researchers from Asia and as well

as other continents to foster links and collaboration among themselves and with mathematicians from other parts of the world through the discussion of issues, exchange of ideas and the presentation of research findings. The Asian Mathematical Conference (AMC) 2016 will take place in BALI, INDONESIA, from Sun-Thu, July 25-29, 2016. It is hosted by the Indonesian Mathematical Society (IndoMS) and South East Asian Mathematical Society (SEAMS).

URL: www.amc2016.org/home/

August 2016

1 – 4 22nd Conference on Applications of Computer Algebra

Location: *Kassel University, Kassel, Germany*

The ACA conference series is devoted to promoting all manner of computer algebra applications and encouraging the interaction of developers of computer algebra systems and packages with researchers and users (including scientists, engineers, educators, and mathematicians). Topics include, but are not limited to, computer algebra in the sciences, engineering, communication, medicine, pure and applied mathematics, education and computer science. The meeting will be run in the standard ACA format where individuals are invited to organize special sessions.

URL: www.mathematik.uni-kassel.de/ACA2016/

1 – 5 AIM Workshop: Positivity of cycles

Location: *American Institute of Mathematics, San Jose, CA*

This workshop, sponsored by AIM and the NSF, will be devoted to the theory of positivity of cycles of arbitrary codimension.

URL: aimath.org/workshops/upcoming/poscycles

1 – 19 Geometry, Topology and Dynamics of Moduli Spaces

Location: *Institute for Mathematical Sciences, National University of Singapore, Singapore*

Geometry, Topology and Dynamics of Moduli Spaces is a three-week program to be held at the Institute for Mathematical Sciences at the National University of Singapore, Singapore, August 1-19 2016. The first week, August 1-5, will be a Workshop on New Perspectives on Moduli Spaces in Gauge Theory. The second week, August 8-12, will be for informal discussions, research collaborations and mini-courses. The final week, August 15-19, will be a Workshop on Moduli spaces of geometric structures.

URL: www2.ims.nus.edu.sg/Programs/016wgeo/index.php

8 – 12 GAP XIV Sheffield "Graded geometry and applications to physics"

Location: *The University of Sheffield, UK*

GAP is a series of conferences and summer schools held annually in various countries around the world since 2003. This year, the mini-course speakers are Kirill Mackenzie, Jonathan Pridham, and Maxim Zabzine. The invited speakers are Iakovos Androulidakis, Dorothea Bahns, Katarzyna Grabowska, Frédéric Hélein, *Hovhannes Khudaverdian, Yvette Kosmann-Schwarzbach, Camille Laurent-Gengoux, Jae-Suk Park, Fani Petalidou, Travis Schedler, *Arkady Vaintrob, *Luca Vitagliano, and Theodore Voronov (*to be confirmed). The organizers are Madeleine Jotz Lean, Mathieu Stiénon, Yannick Voglaire, and Ping Xu. The deadline for

support, contributed talk and poster applications is April 15, 2016.

URL: www.geometryandphysics.org/gapxiv/

15 – 19 Workshop on Geometry and Stochastics of Nonlinear, Functional and Graph Data

Location: *Green Solution House, Rønne, Bornholm, Denmark*

The field of nonlinear statistics (NS) seeks to answer the fundamental questions that arise when defining new statistical models and tools in nonlinear spaces. The field spans from theoretical statistics and geometry to the development of data analysis tools that are directly applicable to actual data. A typical application area is bioimaging.

URL: csgb.dk/activities/2016/geometry/

15 – 19 21st International Summer School on Global Analysis and Applications

Location: *Poprad, Slovakia*

The 2016 International Summer School on Global Analysis and Applications consists in two independent schools based on the following monographs (in preparation) “General Relativity: 100 Years after Hilbert” (S. Capozziello and D. Krupka) “The Noether Theorems” (G. Sardanashvily), and “Cartan geometries and their symmetries, a Lie algebroid approach” (M. Crampin, D. J. Saunders). Workshop lectures and commented poster session are organized. Lectures by S. Capozziello, G. Sardanashvily, D. J. Saunders

URL: www.lepageri.eu/summer-school

25 – 28 Geometric Function Theory and Applications - GFTA 2016

Location: *“1 Decembrie 1918” University of Alba Iulia, Alba Iulia, Romania*

The conference will be focused on Geometric Function Theory and its Applications. The aim of the symposium is to bring together leading experts as well as young researchers working on topics mainly related to Univalent and Geometric Function Theory and to present their recent work to the mathematical community. This event will be held on the occasion of the 85th anniversary of Professor Petru T. Mocanu.

URL: gfta2016.uab.ro

29 – September 1 3rd International Intuitionistic Fuzzy Sets and Contemporary Mathematics Conference

Location: *Mersin University, Mersin, Turkey*

This international conference will be held at Mersin University. SCIENTIFIC FIELDS OF THE CONFERENCE: Intuitionistic Fuzzy Sets and Structures, Logic and Applications, Applied Mathematics, Generalized Nets, Geometry, Controls, Robotics, Algebra, Analysis, Topology and others.

URL: iifsc.com/

29 – September 2 AIM Workshop: Moments of Zeta and Correlations of Divisor Sums

Location: *American Institute of Mathematics, San Jose, CA*

This workshop, sponsored by AIM and the NSF, will focus on a new method of estimating moments of L-functions in families, and related arithmetical problems.

URL: aimath.org/workshops/upcoming/zetamoments

September 2016

5 – 9 Contact Structures, Laminations and Foliations

Location: *LMU, Munich, Germany*

The aim of this workshop is to cover various aspects of the theory of branched surfaces, laminations and their geometric applications. There will be two lecture series by Danny Calegari (Chicago) and Vincent Colin (Nantes) as well as several other talks on related topics. Some funding is available for young researchers and PhD students, please apply before 30th of June.

URL:

www.mathematik.uni-muenchen.de/~bowden/Contact_Foliations/Contact_Foliations.php

15 – 18 The 24th Conference of the Romanian Society of Applied and Industrial Mathematics ROMAI

Location: *University of Craiova, Craiova, Romania*

The sections of the conference are: 1. Real, Complex, Functional and Numerical Analysis, 2. Partial Differential Equations with applications in Mechanics, Biology, etc., 3. Ordinary Differential Equations; Dynamical Systems, 4. Probability Theory, Mathematical Statistics, Operation Research, 5. Algebra, Logic, Geometry (with applications), 6. Mathematical Modeling, 7. Computer Science 8. Education.

URL: www.romai.ro/conferintele_romai/caim2016_en.html

19 – 23 AIM Workshop: Soft Packings, Nested Clusters, and Condensed Matter

Location: *American Institute of Mathematics, San Jose, CA*

This workshop, sponsored by AIM and the NSF, will be devoted to modeling the geometry of condensed matter. The workshop will focus on “soft packing” and “nested clustering” phenomena in discrete geometric structures and their applications to understanding the internal atomic structure of solids and fluids.

URL: aimath.org/workshops/upcoming/softpack

19 – 23 18th International Workshop on Computer Algebra in Scientific Computing

Location: *University of Bucharest, Bucharest, Romania*

The ongoing development of computer algebra systems, including their integration and adaptation to modern software environments, puts them to the forefront in scientific computing and enables the practical solution of many complex applied problems in the domains of natural sciences and engineering. The workshop covers all basic areas of scientific computing (see web page for a more detailed list).

URL: www.casc.cs.uni-bonn.de/2016/

19 – 23 **A MATHEMATICAL TRIBUTE TO ENNIO DE GIORGI**

Location: *Centro di Ricerca Matematica “Ennio De Giorgi”, Palazzo Puteano, Piazza dei Cavalieri 3, PISA, Italy*

On the occasion of the centennial of Ennio De Giorgi’s departure, the meeting gathers many generations of mathematicians and aims at the presentation of the most recent advances in the many research fields marked by De Giorgi’s contributions. Speakers include: A. Braides, Univ Roma Tor Vergata; H. Brezis, Rutgers Univ and Technion; G. Buttazzo, Univ Pisa; X. Cabré, ICREA and UPC Barcelona; L. Caffarelli, UT at Austin; P. D’Ancona, Univ Roma Sapienza; C. De Lellis, Univ Zürich; E. Di Benedetto, Vanderbilt Univ; A. Figalli, UT at Austin; W. H. Fleming, Brown Univ; I. Fonseca, Carnegie Mellon Univ; N. Fusco, Univ Federico II, Napoli; N. Gigli, SISSA, Trieste; F. Honsell, Univ Udine; D. Kinderlehrer, Carnegie Mellon Univ; P. Louis Lions, College de France and Ceremade; G. Mingione, Univ Parma; U. Mosco, Worcester Polytechnic Inst; L. Nirenberg, Courant Inst; F. Otto, Max Planck Inst; G. Savaré, Univ Pavia; S. Serfaty, Univ Pierre et Marie Curie; S. Wenger, Univ Fribourg.

URL: crm.sns.it/event/369/

19 – 24 **Non-commutative, Derived and Homotopical Methods in Geometry**

Location: *University of Antwerp, Antwerp, Belgium*

The aim of the conference is to bring together experts and graduate students/postdocs working in various modern approaches to geometry. Example topics would be: derived algebraic / symplectic geometry, derived minimal model program, homological projective duality, homological mirror symmetry, stability conditions, non-commutative motives / non-commutative (co)homology theories, generalizations of derived categories / cDG-categories / matrix factorizations, operads / graph complexes / deformation theory, non-commutative versions of classical varieties (del Pezzo, tori, K3, ...)

URL: win.uantwerpen.be/ncdhmig/

20 – 24 **International Conference on Differential Equations dedicated to the 110th anniversary of Ya. B. Lopatynsky**

Location: *Ivan Franko National University, L’viv, Ukraine*

The conference continues a series of traditional scientific meetings dedicated to outstanding mathematicians which worked at the Lviv University. In 1999 the conference of this series was dedicated to the memory of J. P. Schauder who was born in Lviv in 1899 and lived in this city all his life. In 2002 the International Conference on Functional Analysis and Applications was dedicated to the 110th anniversary of Stefan Banach, professor of Lviv University during 1924-1945 years. The name of Yaroslav Lopatynsky is well known all over the world as a great specialist in the theory of PDE. In his famous work of 1953 he established the condition of well-posedness of general boundary value problems for elliptic systems of PDE.

URL: ic1110.lviv.ua/index.html

27 – 30 **The International Conference “Nonlinear Dynamics-2016”**

Location: *Kharkov, Ukraine*

The Int. Conference “Nonlinear Dynamics-2016”, National Technical University, Kharkov, Ukraine. Organizers: National Technical University, Kharkov, Ukraine; McGill University,

Montreal, Canada; Technion, Haifa, Israel; Institute for Mechanical Engineering Problems, Kharkov, Ukraine; Institute of Mechanics, Kiev, Ukraine; The National Committee of Ukraine on Theor. and Appl. Mechanics. Call for papers: A one-page abstract is invited. The abstracts have to be sent to the conference web-site. The deadline for the abstract submission is March 14, 2016. Authors of accepted presentations are invited to submit 4-6 page extended abstracts by June 5, 2016. Contact: Engineering Physics Faculty (Prof. Yu. Mikhlin, Prof. L. Kurpa, Dr. Larin), National Technical University, 21 Kirpichev str., Kharkov, 61002, Ukraine. Phone: +38-057-7076032; Fax: +38-057-7076601; Email: NDKhPI2016@gmail.com, alexeya.larin@gmail.com, muv@kpi.kharkov.ua

URL: web.kpi.kharkov.ua/nd-khpi/

October 2016

24 – 28 **AIM Workshop: Rational Subvarieties in Positive Characteristic**

Location: *American Institute of Mathematics, San Jose, CA*

This workshop, sponsored by AIM and the NSF, will be devoted to studying rationality and existence of rational subvarieties in positive characteristic.

URL: aimath.org/workshops/upcoming/ratsubvarpos

December 2016

1 – 2 **Workshop on Integrable Systems**

Location: *University of Sydney, Australia*

A short workshop in Integrable Systems, with the goal to bring together mathematicians working in the area in order to better foster the exchange of ideas, and to encourage collaborations among diverse groups within the community.

URL:

wp.maths.usyd.edu.au/igs/workshops/integrable-systems-2016/

12 – 14 **11th IMA International Conference on Mathematics in Signal Processing**

Location: *Austin Court, Birmingham, UK*

Signal processing constitutes an important area for the application of mathematical concepts and techniques fuelled, for example, by developments in mobile communications, networks, multimedia system, genomics and bioengineering, neural signal processing, big data processing and internet of things. The aim of the conference is to bring together mathematicians, statisticians and engineers with a view to exploring recent developments and identifying fruitful avenues for further research. It is hoped that the meeting will help to attract more mathematicians into this important and challenging field. Invited Speakers: Prof. Mike Davies, University of Edinburgh; Prof. Sangarapillai Lambotharan, Loughborough University; Dr. Miguel Rodrigues, University College London.

URL:

www.ima.org.uk/conferences/conferences_calendar/11th_maths_in_signal_processing.html

14 – 18 **The 21st Asian Technology Conference in Mathematics (ATCM 2016)**

Location: *Pattaya, Thailand*

Conference Theme: “Teaching and Learning Mathematics, Sciences and Engineering through Technology”. The ATCM

2016 is an international conference to be held in Pattaya Thailand that will continue addressing technology-based issues in all Mathematical Sciences. Thanks to advanced technological tools such as computer algebra systems (CAS), interactive and dynamic geometry, and hand-held devices, the effectiveness of our teaching and learning, and the horizon of our research in mathematics and its applications continue to grow rapidly. The aim of this conference is to provide a forum for educators, researchers, teachers and experts in exchanging information regarding enhancing technology to enrich mathematics learning, teaching and research at all levels. English is the official language of the conference. ATCM averagely attracts 350 participants representing over 30 countries around the world. Be sure to submit your abstracts or full papers in time at conferencereview.com
URL: atcm.mathandtech.org

19 – 22 Statistical Methods in Finance 2016

Location: *Chennai Mathematical Institute (CMI), Chennai, India*
The second conference on Statistical methods in finance aims to expose the participants to new and active areas of research in financial mathematics and to form working groups of researchers. The conference will be held jointly by Chennai Mathematical Institute (CMI) and Indian Statistical Institute—Chennai Center.
URL: www.cmi.ac.in/~sourish/StatFin2016/

January 2017

3 – 28 Higher Dimensional Algebraic Geometry, Holomorphic Dynamics and Their Interactions

Location: *Institute for Mathematical Sciences, National University of Singapore*

In recent years we have seen great breakthroughs in the classification theory of higher dimensional compact algebraic varieties and complex manifolds. The seminal results are the proofs of finite generations of canonical rings of algebraic varieties by Caucher Birkar • Paolo Cascini • Christopher D. Hacon • James McKernan [BCHM06] using the algebraic method and Yum-Tong Siu [Siu08] using the analytic method. These results have profound influence on many areas of mathematics—including the study of higher dimensional dynamics and number theoretical dynamics. The interactions of algebraic geometry and the study of these dynamics is exactly the main theme of this program.

URL: www2.ims.nus.edu.sg/Programs/017hidim/index.php

4 – 7 2017 Joint Mathematics Meetings, Atlanta, GA

Location: *Hyatt Regency Atlanta and Marriott Marquis Atlanta*
The Mathematical Association of America (MAA) and the American Mathematical Society (AMS) invite you to join them for the next Joint Mathematics Meetings (JMM). This will be the 100th annual winter meeting of MAA and the 123rd annual meeting of AMS. The JMM will again host sessions by the Association for Symbolic Logic (ASL), the Association for Women in Mathematics (AWM), the National Association for Mathematicians (NAM), and the Society for Industrial and Applied Mathematics (SIAM).

URL: www.ams.org/meetings/national/national

9 – 13 AIM Workshop: Stability and moduli spaces

Location: *American Institute of Mathematics, San Jose, CA*

This workshop, sponsored by AIM and the NSF, will be devoted to appreciating the role played by K -stability, Kollar-Shepherd-Barron-Alexeev (KSBA) stability, GIT stability, and Bridgeland stability in the construction and compactification of moduli spaces in algebraic geometry. The organizing theme will be to investigate connections between these flavors of stability, with the goals of incubating new moduli spaces of curves, surfaces, and higher-dimensional varieties and of clarifying the birational geometry of familiar ones.

URL: aimath.org/workshops/upcoming/stabmoduli

16 – 19 ACM-SIAM Symposium on Discrete Algorithms (SODA17), being held with Analytic Algorithmics and Combinatorics (ANALCO17) and Algorithm Engineering and Experiments (ALENEX17)

Location: *Universitat Politècnica de Catalunya, Barcelona, Spain*

The call for papers will be posted at www.siam.org/meetings/da17/ in May 2016.

URL: www.siam.org/meetings/da17/

17 – 20 III. International Conference of Symmetries, Differential Equations and Applications (SDEA-III),

Location: *Istanbul Technical University, Istanbul, Turkey*

This is the third conference in the series. The first SDEA-I was held in Johannesburg, South Africa in 2012 and the second SDEA-II was held in Islamabad, Pakistan in 2014. The main aim of this conference is intended to concentrate on most of the recent advances in the applications of Lie groups including a wide area of topics in interdisciplinary studies in theoretical and applied sciences from mathematical physics to financial mathematics. We aim to bring together academicians who are working on a variety of applications of Lie groups in SDEA-III. We are sure that SDEA-III will be a successful conference by providing a productive forum for academicians and students not only from Mathematics and Physics but also other branches such as Engineering and Social Sciences to discuss and share the latest developments in the theory and applications of Lie symmetry groups and experience a valuable technical program and a magnificent city.

URL: www.sdea3.org/en

May 2017

1 – 26 Complex Geometry, Dynamical Systems and Foliation Theory

Location: *Institute for Mathematical Sciences, National University of Singapore*

This program concerns the recent developments in Complex Analysis and its Applications. Among a very large choice of topics, we will focus on those related to Pluripotential Theory. Beside informal discussions and seminars, we will organize a week of mini courses (accessible to PhD students, young researchers and non-experts) and also a one-week conference.

URL: www2.ims.nus.edu.sg/Programs/017geo/index.php

July 2017**17 - August 18 Genealogies of Interacting Particle Systems**

Location: *Institute for Mathematical Sciences, National University of Singapore*

Interacting particle systems are Markov chains involving infinitely many mutually interacting components. Apart from the obvious connection to statistical physics, since the conception of the field in the 1970s, interacting particle systems such as the well-known voter model and contact process have also been used to model biological populations. An alternative way of studying these biologically motivated systems is to determine the state of individuals living at a given time by tracing their ancestors, or potential ancestors, backwards in time. The collection of all (potential) ancestors with their relationships forms a random network that is called the genealogy of the interacting particle system. There is a close connection to real genealogies of biological populations and questions about the latter, such as what are the effects of population dynamic and evolutionary mechanisms on genealogical trees, continue to stimulate the development of more theoretical topics, such as the theory of random graphs and their limits, and interacting stochastic systems.

The aim of the proposed program is to bring together both experts and younger researchers from around the world, who have worked on or are interested in topics at the intersection of interacting particle systems, population biology, and random graphs, which hopefully will lead to new ideas and new collaborations.

URL: www2.ims.nus.edu.sg/Programs/017gene/index.php

August 2017**21 - September 15 Aspects of Computation**

Location: *Institute for Mathematical Sciences, National University of Singapore*

This four-week program on aspects of computation will focus on recent developments in parametric complexity theory, computability theory with applications in algebra, algorithmic randomness, model theory, etc. The program will focus on the following topics: (i) Parametric Complexity; (ii) Algorithmic Randomness; (iii) Classic Computability Theory; and (iv) Computable Structures and Reverse Mathematics.

URL: www2.ims.nus.edu.sg/Programs/017asp/index.php

November 2017**29 - December 1 Women in Topology**

Location: *Mathematical Sciences Research Institute, Berkeley, CA*

The Women in Topology (WIT) network is an international group of female mathematicians interested in homotopy theory whose main goal is to increase the retention of women in the field by providing both unique collaborative research opportunities and mentorship between colleagues. The MSRI WIT meeting will be organized as an afternoon of short talks from participants, followed by two days of open problem seminars and working groups designed to stimulate new collaborations, as well as to strengthen those already ongoing among the participants.

URL: www.msri.org/workshops/797

December 2017**11 - 20 Representation Theory of Symmetric Groups and Related Algebras**

Location: *Institute for Mathematical Sciences, National University of Singapore*

This 10-day workshop is devoted to the representation theory of symmetric groups and related algebras. The workshop aims to survey the recent development and provide impetus for further insights and progress. It hopes to bring together researchers working in this area to foster interaction, collaboration and the exchange of ideas.

URL: www2.ims.nus.edu.sg/Programs/017wrep/index.php

January 2018**10 - 13 2018 Joint Mathematics Meetings, San Diego, CA**

Location: *San Diego Convention Center, San Diego, CA*

The American Mathematical Society (AMS) and the Mathematical Association of America (MAA) invite you to join them for the next Joint Mathematics Meetings (JMM). This will be the 101th annual winter meeting of MAA and the 124th annual meeting of AMS. The JMM will again host sessions by the Association for Symbolic Logic (ASL), the Association for Women in Mathematics (AWM), the National Association for Mathematicians (NAM), and the Society for Industrial and Applied Mathematics (SIAM).

URL: www.ams.org/meetings/national/national

February 2018**5 - 16 Meeting the Statistical Challenges in High Dimensional Data and Complex Networks**

Location: *Institute for Mathematical Sciences, National University of Singapore*

The program aims at showing the role of modern statistical methods in complex data and serves to support interactions among mathematicians, statisticians, engineers and scientists working in the interface of experiment, computation, analysis and statistics. Two workshops with a few special lectures will focus on the development of new statistical methods in high dimensional data and complex networks with their interactions in scientific and social sciences. It seeks to foster activity and collaboration on all aspects of the effects of the high dimensional data analysis and social networks.

URL: www2.ims.nus.edu.sg/Programs/018wstat/index.php