



8th International Conference on Unsolved Problems on Noise

Gdańsk University of Technology, Gdańsk, 9-13 July 2018

The 8th International Conference on Unsolved Problems on Noise will be held in Poland, Gdańsk from July 9 through July 13, 2018. The conference will take place in the Main Building of the Gdańsk University of Technology.

Abstract submission: Prospective authors are requested to submit a 2-page abstract including figures and references. The abstract must be prepared following the format of the templates available at the website of the conference:

<http://pg.edu.pl/upon2018/>

Final paper publication: Selected works presented at the UPoN 2018 conference will be published online, after they are peer reviewed, and as regular papers in special issues of the *Fluctuation and Noise Letters* and the *Metrology and Measurement Systems*.

Registration: The registration is now open at the conference website. For any queries email to: upon2018@pg.edu.pl

Important Dates:

Abstract submission:	February 18, 2018
Acceptance notification:	March 18, 2018
Early bird registration:	April 15, 2018
Conference:	July 9-13, 2018
Final paper submission:	September 10, 2018

Local Organizing Committee

Małgorzata Jędrzejewska-Szczerska (Chair of Local Organizing Committee)
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 Michał Kowalewski
 Agnieszka Tracz-Sagajdakow
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Random fluctuations, and their effect on systems, have always been an interdisciplinary subject that has attracted some of the best scientists. The aim of the UPoN conference is to provide a forum for researchers working in different fields of noise, fluctuations and variability, where they can present their scientific problems which do resist solutions and discuss together in a fruitful atmosphere.

Keynote Speakers

Sergey Bezrukov, National Institutes of Health, USA
Unsolved problems of ion channel dynamics

François Danneville, Institute of Electronics, Microelectronics and Nanotechnology, France
Open problems in brain-emulating hardware

Pertti Hakonen, Aalto University School of Science, Finland
Open problems of quantum noise

Michael Levinshstein, Ioffe Institute, Russia
Lorentzians vs global warming hysteresis

Banquet Speaker

Michael Shlesinger, Office of Naval Research, USA

Invited Speakers

Bruno Andò, University of Catania, Italy
 Eli Barkai, Bar Ilan University, Israel
 Wolfgang Belzig, University of Konstanz, Germany
 Dante Chialvo, CEMSC³ - UNSAM, Argentina
 Carmine Ciofi, University of Messina, Italy
 Adeline Crépieux, Aix-Marseille University, France
 Mark Dykman, Michigan State University, USA
 Mikhail Feigel'man, L. D. Landau Institute for Theoretical Physics, Russia

Igor Goychuk, University of Potsdam, Germany
 Grzegorz Jung, Ben-Gurion University of the Negev, Israel
 Jerzy Łuczka, University of Silesia, Poland
 Aneta Stefanowska, Lancaster University, England

Topics

1. Fluctuations in biological systems
2. Fluctuations in materials and devices
3. Noise in complex and non-linear systems
4. Applications of noise
5. Theory of noise and fluctuations
6. Other topics of noise and fluctuations including weather

UPoN-2018 Chairs

Janusz Smulko (Chair), Łukasz Machura (Vice-chair), Peter McClintock (Vice-chair)

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 Sergey Bezrukov, National Institutes of Health, USA
 Sergio Ciliberto, École Normale Supérieure de Lyon, France
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