

# Lake Como School on “Complexity in Nonlinear Photonics”

Centro Alessandro Volta, Villa del Grumello, Como, September 25-29, 2017

## Final Program

### Monday, September 25

9:00-9:15 **S. Turitsyn, D. Churkin and S. Wabnitz:** Welcome and introduction

9:15-10:15 **Gaetano Assanto**, Università di Roma 3, Italia, “Reorientational solitons: from playground to photonic platform”

10:15-11:15 **Sergey Babin**, Russian Academy of Sciences, Russia, “Multicolor dissipative solitons: formation and nonlinear interaction”

11:15-11:45 Coffee break

11:45-12:45 **Alessandro Tonello**, University of Limoges, France, “Spatial and spectral shaping of multicolour light in nonlinear multimode fibers”

12:45-14:00 Lunch

14:00-15:00 **Guy Millot**, University of Bourgogne, France, “Spatiotemporal instabilities in multimode fibers”

15:00-16:00 **Philip Russell**, Max Planck Institute for the Science of Light, Germany, “Complex nonlinear optical effects in microstructured fibers”

16:00-16:30 Coffee break

16:30-17:30 **Hui Cao**, Yale University, USA, “Complex Lasers”

17:30-18:30 Wine tasting welcome reception at Villa del Grumello

### Tuesday, September 26

9:00-10:00 **Claudio Conti**, Università La Sapienza, Roma, Italy, “Complex photonics: towards quantum technologies and bio-medicine”

10:00-11:00 **Costantino De Angelis**, Università di Brescia, Italy, “Second Harmonic Generation in AlGaAs Monolithic Nanoantennas

11:00-11:30 Coffee break

11:30-12:30 **Nikos Efremidis**, University of Crete, Greece, “Curved and accelerating beams: theory and applications”

12:30-14:00 Lunch

14:00-15:00 **Ingo Fischer**, UIB-CSIC, Universitat de les Illes Balears, Spain, “Information processing in telecommunication systems”

14:00-15:00 **Stefano Trillo**, Università di Ferrara, Italy, “Shock-driven dynamics: analogies between optics and hydrodynamics”

16:00-16:30 Coffee break

16:30-17:30 **Andrey Sukhorukov**, Australian National University, Australia, “From classical to quantum frequency conversion in complex nonlinear structures”

17:30-18:15 **Rachel Won**, Nature Photonics, UK: “Publishing in Nature Photonics”

20:00-23:00 Conference dinner

### Wednesday, September 27

9:00-10:00 **Edik Rafailov**, Aston University, UK, “Compact Quantum Dot based broadly tuned and ultrafast lasers sources”

10:00-11:00 **Gian-Luca Oppo**, Strathclyde University, Scotland, “Laser hydrodynamics: vortices, turbulence and rogue waves”

11:00-11:30 Coffee break

11:30-12:30 **Stephane Barland**, CNRS, France, “Regenerative memory in neuromorphic photonic resonators”

12:30-14:00 Lunch

14:00-15:00 **Alex Gaeta**, Columbia University, USA, “Nonlinear Photonics in Microresonators”

15:00-16:00 **Tobias Kippenberg**, EPFL, Switzerland, “Dissipative temporal solitons on optical microresonators”

16:00-16:30 Coffee break

16:30-18:00 POSTER SESSION

### Thursday, September 28

- 9:00-10:00 **Lorenzo Pavesi**, Università di Trento, Italy, “Optical microcavities: they could be simple, they could be complex”
- 10:00-11:00 **Ljupco Hadzievski**, University of Belgrade, Serbia, “Photonic Entrepreneurship”
- 11:00-11:30 Coffee break
- 11:30-12:30 **Ekaterina Golovchenko**, IPG Photonics, USA, “ Photonics Product development – from the drawing board to the market-place”
- 12:30-14:00 Lunch
- 14:00-15:00 **Paul Knobbs**, Aston University, “Horizon 2020 and Proposal writing – tips and tricks”
- 15:00-15:45 **Aldo Righetti**, Fondazione Cife, Italy, “Optical amplifier, from the idea to the product”
- 17:00-18:00 **Excursion**. Meeting point: Hotel Metropole, Piazza Cavour

Friday, September 29

- 9:00-10:00 **Eugene Podivilov**, Russian Academy of Sciences, Russia, “Turbulence of light in fiber laser”
- 10:00-11:00 **Alain Barthelemy**, University of Limoges, France, “Laser beam combining with multimode fibers”
- 11:00-11:30 Coffee break
- 11:30-12:30 **Boris N. Chichkov**, Leibniz Universität Hannover, Germany, “Nonlinear photonic technologies: 2D and 3D laser printing”
- 12:30-12:45 **S. Turitsyn, D. Churkin and S. Wabnitz**: Summary and conclusions
- 12:45-14:00 Lunch
- 14:00-16:00 Examination session