

Your guide to the Optoelectronics Research Centre at CLEO 2018

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Monday 14 May 2018

- 09:00 (Marriott Salon V)** *Variable Pattern Projection via a Spatial Light Modulator for Laser Machining on Curved Surfaces.* Benjamin Mills¹, Daniel Heath¹, James Grant-Jacob¹, Richard Oreffo¹, Robert Eason¹; ¹Univ. of Southampton. (SM10.4)
- 09:15 (Meeting Rm 212 B/D)** *Multi-Wavelength Diode-Pumping of Fiber Raman Laser.* Soonki Hong¹, Yutong Feng¹, Johan Nilsson¹; ¹Univ. of Southampton. (S&I1)
- 12:00 (Meeting Rm 212 B/D)** *Single-shot phase measurement and fluctuation analysis of Yb-doped fiber amplifier for nanosecond pulses.* Yujun Feng¹, Huaqin Lin¹, Johan Nilsson¹; ¹Univ. of Southampton. (SM2K.7)
- 13:45 (Meeting Rm 212 A/C)** *Far-field Metamaterial Superlens.* Guanghui Yuan¹, Katrina S. Rogers², Edward T. Rogers³, Nikolay I. Zheludev^{1,3}; ¹Nanyang Technological Univ., Singapore; ²School of Mathematics and Statistics, The Open Univ., UK; ³Univ. of Southampton, UK. (FM3J.2)
- 14:45 (Executive Ballroom 210B)** *20Gbps silicon lateral MOS-Capacitor electro-optic modulator.* Weiwei Zhang¹, Kapil Debnath¹, Graham T. Reed¹, David J. Thomson¹, Ali Z. Khokhar¹, Callum Littlejohns¹, James Byers¹, Lorenzo Mastronardi¹, Muhammad K. Husain¹, Frederic Gardes¹, Shinichi Saito¹; ¹Univ. of Southampton, UK. (SM3B.5)
- 14:45 (Executive Ballroom 210D)** *Octave-Spanning Supercontinuum Generation in a Dispersion Managed Tapered Crystalline Silicon Core Fiber.* Haonan Ren¹, Li Shen², Joseph Campling¹, Antoine Runge¹, Ozan Aktas¹, Thomas Hawkins³, Peter Horaki¹, John Ballato³, Ursula J. Gibson⁴, Anna C. Peacock¹; ¹Univ. of Southampton, UK; ²Wuhan National Lab for Optoelectronics, Huazhong Univ. of Science and Technology, China; ³School of Materials Science and Engineering, Clemson Univ., USA; ⁴Dept. of Physics, Norwegian Univ. of Science and Technology, Norway. (SM3D.5)
- 16:30 (Meeting Rm 212 B/D)** *A Watt-level Supercontinuum Source from a Fiber-laser pumped Fluoroindate Fiber Spanning 750 nm to 5 microns.* Sijing Liang¹, Lin Xu¹, Qiang Fu¹, David Shepherd¹, David Richardson¹, Shaif-Ul Alam¹; ¹Univ. of Southampton, UK. (SM4K.2)
- 16:45 (Meeting Rm 212 A/C)** *Variable Environmental Index Spectroscopy in Metamaterials.* Wei-Yi Tsai^{1,2}, Vassili Savinovi¹, Jun-Yu Ou¹, Din Ping Tsai^{3,2}, Nikolay I. Zheludev^{1,4}; ¹Univ. of Southampton, UK; ²Dept. of Physics, National Taiwan Univ., Taiwan; ³Research Center for Applied Sciences, Academia Sinica, Taiwan; ⁴Centre for Disruptive Photonic Technologies, Nanyang Technological Univ., Singapore. (FM4J.4)
- 17:15 (Marriott Salon V)** *Surface Relief Structuring via Multiple Pulse Femtosecond Ablation using an Intensity Spatial Light Modulator.* Benjamin Mills¹, Daniel Heath¹, Rupert Bapty¹, Taimoor Rana¹, Behrad Gholipour¹, James Grant-Jacob¹, Robert Eason¹; ¹Univ. of Southampton. (SM40.3)
- 17:15 (Meeting Rm 212 B/D)** *High-peak-power, high-efficiency, frequency doubled and quadrupled Thulium fiber laser.* Lin Xu¹, Sijing Liang¹, Qiang Fu¹, David Shepherd¹, David Richardson¹, Shaif-Ul Alam¹; ¹Univ. of Southampton, UK. (SM4K.5)
- 17:30 (Executive Ballroom 210G)** *Quantum interferometry through cascading broadband entanglement sources.* Arash Riazi¹, Chang j. Chen¹, Eric Y. Zhu¹, Alexey Gladyshev³, Peter Kazansky², John E. Sipe¹, Li Qian¹; ¹Univ. of Toronto, Canada; ²Univ. of Southampton, UK; ³Russian Ac. of Sci (FM4G.7)
- 17:45 (Executive Ballroom 210G)** *A Compact All-fiber Polarization-Entangled Photon Source Pumped by a Laser Diode.* Arash Riazi¹, Chang j. Chen¹, Eric Y. Zhu¹, Alexey Gladyshev³, Peter Kazansky², John E. Sipe¹, Li Qian¹; ¹Univ. of Toronto, Canada; ²Univ. of Southampton; ³Russian Ac. of Sci (FM4G.8)

Tuesday 15 May 2018

11:30-13:00 (Exhibit Hall) Poster Session 1:

- All-optical Wavelength Conversion of Phase-encoded Signals in Silicon-rich Silicon Nitride Waveguides.* Cosimo Lacava¹, Stuart May², David Richardson¹, Graham T. Reed¹, Marc Sorel², Periklis Petropoulos¹; ¹Univ. of Southampton, UK; ²Univ. of Glasgow, UK.
- 12:00 High Power Fiber Lasers and Amplifiers.** Instructor: W. Andrew Clarkson, Univ. of Southampton, UK. (Short course SC270)
- 13:00 (Theatre II)** *The Development of Tailored Supercontinuum Sources in Silica and Non-silica Fibers.* Jonathan Price, Univ. of Southampton, UK.
- 13:00 (Meeting Rm 212 B/D)** *Towards in-fiber Silicon Photonics (Invited).* Anna C. Peacock¹; ¹Univ. of Southampton, UK. (STu3K.1)
- 13:15 (Executive Ballroom)** *Harmonic Generation in Silicon Rich Nitride Photonic Crystal Cavities.* Marco Clementi¹, Kapil Debnath³, Moise Sotito³, Thalia Dominguez Bucio³, Marco Liscidini¹, Daniele Bajoni¹, Frederic Gardes³, Matteo Galli¹; ¹Dipartimento di Fisica, Universita di Pavia, Italy; ³Univ. of Southampton, UK. (STu3F.2)
- 14:00 (Theatre II)** *The Development of Tailored Supercontinuum Sources in Silica and Non-silica Fibers (Invited).* Jonathan H. Price¹, Sijing Liang¹, Lin Xu¹, Qiang Fu¹, Yongmin Jung¹, Krzysztof P. Herdzik¹, Sumeet Mahajan¹, David Shepherd¹, David Richardson¹, Shaif-Ul Alam¹; ¹Univ. of Southampton, UK. (ATu3S.3)

Wednesday 16 May 2018

11:30-13:00 (Exhibit Hall) Poster Session 2:

- Plasmonic Tuning of Effective Phase Transition Temperature and Electrical Conductivity.* James Frame¹, Wanaka Kubo^{2,3}, Xu Fang¹; ¹Univ. of Southampton, UK; ²Dept. of Electrical and Electronic Engineering, Tokyo Univ. of Agriculture and Technology, Japan; ³Metamaterials Lab, RIKEN, Japan (JW2A.95)
- 13:15 (Marriott Salon III)** *Novel Method for Generating High Purity Vortex Modes.* Robin T. Uren¹, Stephen Beecher¹, Callum Smith¹, William A. Clarkson¹; ¹Univ. of Southampton, UK. (SW3M.2)
- 18:00 (Meeting Rm 212 B/D)** *110 W High-Efficiency Er-Nanoparticle-Doped Fiber Laser.* Huaqin Lin¹, Colin Baker², Zhimeng Huang¹, Shankar Pidishety¹, Yutong Feng¹, E. Joseph Friebele³, Ashley Burdett⁴, Dan Rhonehouse², Brandon Shaw², Jas Sanghera², Johan Nilsson¹; ¹Univ. of Southampton, UK; ²Naval Research Lab, USA; ³KeyW Corp, USA; ⁴Univ. Research Foundation, USA. (SW4K.5)

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Thursday 17 May 2018

08:15 (Meeting Rm 211 B/D) *Mid-infrared (MIR) Mach-Zehnder Silicon Modulator at 2microns Wavelength based on Interleaved PN Junction (Invited)*. Wanjun Wang¹, Zecen Zhang¹, Xin Guo¹, Jin Zhou¹, Sia Jia B. Xu¹, Mohamed S. Rouified¹, Chongyang Liu¹, Callum Littlejohns^{1,2}, Graham T. Reed², Hong Wang¹; ¹Nanyang Technological Univ., Singapore; ²Univ. of Southampton, UK. (STh1B.1)

08:30 (Meeting Rm 211 B/D) *Silicon and Germanium based Waveguide Platforms for the Long Wave Infrared (Invited)*. Milos Nedeljkovic¹, Jordi Soler Penades¹, Alejandro Sanchez-Postigo², J. Gonzalo Wanguemert Perez², Alejandro Ortega-Monux², Robert Halir², Pavel Cheben³, Inigo Molina-Fernandez², Vinita Mittal¹, Ganapathy S. Murugan¹, Ali Z. Khokhar¹, Callum Littlejohns¹, Yolanda Xu¹, Zhibo Qu¹, Ahmed Osman¹, Wei Cao¹, Lewis G. Carpenter¹, Corin Gawith¹, James S. Wilkinson¹, Goran Mashanovich¹; ¹Univ. of Southampton, UK; ²Universidad de Malaga, Spain; ³National Research Council of Canada, Canada. (STh1.3)

09:15 (Executive Ballroom) *Enhanced Luminescence of MoS₂, WS₂ and WSe₂, Direct Band Gap Semiconductor Heterostructures*. Jin-Kyu So¹, Shoujun Zheng¹, Fucui Liu², Zheng Liu², Nikolay I. Zheludev^{1,3}, Hong Jin Fan^{1,4}; ¹Centre for Disruptive Photonic Technologies, TPI, SPMS, Nanyang Technological Univ., Singapore; ²School of Materials Science and Engineering, Nanyang Technological Univ., Singapore; ³Optoelectronics Research Centre & Centre for Photonic Metamaterials, Univ. of Southampton, UK; ⁴Division of Physics and Applied Physics, School of Physical and Mathematical Sciences, Nanyang Technological Univ., Singapore. (FTh1F.5)

11:30-13:00 (Exhibit Hall) Poster Session 3:

- *Breaking up the Anapole: or How to Separate Toroidal and Electric Dipole Excitations in Matter*. Vassili Savinovi¹, Wei-Yi Tsai^{1,2}, Din Ping Tsai^{3,2}, Nikolay I. Zheludev^{1,4}; ¹Univ. of Southampton, UK; ²Dept. of Physics, National Taiwan Univ., Taiwan; ³Research Center for Applied Sciences, Academia Sinica, Taiwan; ⁴Centre for Disruptive Photonic Technologies, Nanyang Technological Univ., Singapore. (JTh2A.26)

- *Yb-doped Large-Mode-Area Al-P-Silicate Laser Fiber fabricated by MCVD*. Vassili Savinovi¹, Wei-Yi Tsai^{1,2}, Din Ping Tsai^{3,2}, Nikolay I. Zheludev^{1,4}; ¹Univ. of Southampton, UK; ²Dept. of Physics, National Taiwan Univ., Taiwan; ³Research Center for Applied Sciences, Academia Sinica, Taiwan; ⁴Centre for Disruptive Photonic Technologies, Nanyang Technological Univ., Singapore. (JTh2A.26)

- *Spatially Gain-Tailored Fiber Raman Laser Cladding-Pumped by Multimode Disk Laser at 1030 nm*. Yutong Feng¹, Sheng Zhu¹, Soonki Hong¹, Huaiqin Lin¹, Pranabesh Barua¹, Jayanta K. Sahu¹, Johan Nilsson¹; ¹Univ. of Southampton, UK. (JTh2A.109)

- *Numerical Analysis on the Influence of Photo Darkening Heating Induced Phase Distortion on Fiber Coherent Combining CPA Scheme*. Yujun Feng¹, Betty M. Zhang¹, Johan Nilsson¹; ¹Univ. of Southampton, UK. (JTh2A.110)

- *Simultaneous Identification of Size and Complex Refractive Index of a Single Microbead via Mie Scattering*. Benjamin Mills¹, James Grant-Jacob¹, Bharat Pant¹, Daniel Heath¹, Peter Horak¹, Matthew Loxham¹, Robert Eason¹; ¹Univ. of Southampton, UK. (JTh2A.177)

15:30 (Executive Ballroom 210E) *Launching Electromagnetic Donuts: Non-transverse electromagnetic pulses*. Apostolos Zdagkas¹, Parik Moitra¹, Oleksander Buchnev¹, Nikitas Papisimakis¹, Nikolay I. Zheludev^{1,2}; ¹Univ. of Southampton, UK; ²Nanyang Technological Univ., Singapore. (FTh3E.7)

15:45 (Executive Ballroom 210E) *Single-Photon-Level Interface for Linking Sr⁺ Transition at 422nm with The Telecommunications C-band*. Thomas A. Wright¹, Robert J. Francis-Jones¹, Corin Gawith³, Jonas N. Becker², Patrick Ledingham², Ian Walmsley², Benjamin Brecht², Joshua Nunn¹, Peter J. Mosley¹; ¹Univ. of Bath, UK; ²Univ. of Oxford, UK; ³Univ. of Southampton, UK. (ATh3H.8)

18:15 (Executive Ballroom 210E) *Extraordinary Properties of Epsilon-Near-Zero and Low-Index Chalcogenide Metamaterials*. Davide Piccinotti¹, Behrad Gholipour¹, Jin Yao¹, Kevin F. MacDonald¹, Brian E. Hayden¹, Nikolay I. Zheludev^{1,3}; ¹Univ. of Southampton, UK; ²Univ. of Glasgow, UK; ³Nanyang Technological Univ., Singapore. (FTh4H.6)

Friday 18 May 2018

08:00 (Executive Ballroom 210H) *New All-optical and Plasmonic Strategies for Controlling Light on a Silicon (Invited)*. Otto L. Muskens¹, Bigeng Chen¹, Nicholas Dinsdale¹, Roman Bruck¹, David J. Thomson¹, Goran Mashanovich¹, Graham T. Reed¹, Kevin Vynck², Philippe Lalanne²; ¹Univ. of Southampton, UK; ²LP2N, Institut Optique d'Aquitaine, France. (FF1H.1)

09:00 (Executive Ballroom 210H) *Coherent Control of Light-matter Interactions in Standing Waves*. Kevin F. MacDonald¹, Eric Plum¹, Daniele Faccio², Nikolay I. Zheludev^{1,3}; ¹Univ. of Southampton, UK; ²Univ. of Glasgow, UK; ³Nanyang Technological Univ., Singapore. (FF1H.4)

14:15 (Meeting Rm 211 B/D) *Novel Fabrication Technique for Highly Efficient Tm-doped Fibers*. Norberto J. Ramirez-Martinez¹, Martin M. Nunez-Velazquez¹, Andrey A. Umnikov¹, Jayanta K. Sahu¹; ¹Optoelectronics Research Centre, Univ. of Southampton, UK. (SF3I.2)

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