PROGRAM

SUNDAY, 02.04.2017

01:00-03:30 pm  Registration

03:30-04:00 pm  Welcome Reception

04:00-05:00 pm  Keynote: New Advances in Molecular Spectroscopic Imaging //
Prof. Ji-Xin Cheng (Purdue University, USA)

05:00-07:00 PM WELCOME MIXER WITH SNACKS & DRINKS

MONDAY, 03.04.17

09:00-09:40 am  Mapping Atomic Motions with Ultrabright Electrons: Realiza-
tion of the Chemists’ Gedanken Experiment // Invited Speaker 1: Prof. Dwayne Miller (Max-Planck-Institute for the Structure and Dynamics of Matter, Hamburg, Germany)

09:40-10:00 am  Ultrafast Vibrational Dynamics of Ionic Liquids // Prof. Arnulf Materny (Jacobs University Bremen, Germany)

10:00-10:20 am  Unravelling the electronic states of the copper dimer using nonlinear optical spectroscopy // Martin Beck (Paul Scherrer Institut, Villigen, Switzerland)

10:20-10:40 AM COFFEE BREAK

10:40-11:20 am  Towards an all-purpose laser excitation tool for multimodal nonlinear microscopy // Invited Speaker: Prof. Marcus Motzkus (University of Heidelberg, Germany)
11:20-11:40 am Multimodal CARS-imaging for interspecies monitoring of the injured nervous system // Dr. Ortrud Uckermann (University Hospital Dresden, Germany)

11:40-12:00 pm Biomedical applications of coherent Raman microscopy // Dr. Tobias Meyer (Leibniz Institute of Photonic Technology, Jena, Germany)

12:00-01:00 PM LUNCH

01:00-01:40 pm Fluid analysis by laser-induced gratings in the mid- and near-infrared // Invited Speaker 3: Prof. Johannes Kiefer (University of Bremen, Germany)

01:40-02:00 pm Rotational CARS for simultaneous thermometry and relative concentration measurements of ethane and nitrogen in ethane diffusion flames // Ali Hosseinnia (Lund University, Sweden)

02:00-02:20 pm Single-shot temperature measurements at 1kHz in a methane / air premixed flame using chirped probe pulse femtosecond CARS // Benoit Barviau (CORIA, University of Rouen, France)

02:20-02:40 pm Stimulated Raman Scattering MIcroscopy for Catalysis Research // Dr. Maarten Roeffaers (Catholic University of Leuven, Belgium)

02:40-03:10 PM COFFEE BREAK

INDUSTRY SESSION

03:10-03:30 pm Design and manufacturing of reliable ultrafast lasers using HALT/HASS protocols // Peter Vogt (Coherent Inc., Frankfurt, Germany)
03:30-03:50 pm  High-Speed ASOPS System based on 1 GHz repetition rate lasers  // Dr. Andreas Isemann (Laser Quantum GmbH, Konstanz, Germany)

03:50-04:10 pm  Differentiating Charged From Non-Charged Ferroelectric Domain Walls in LiNbO₃ by µ-CARS and µ-Raman: surprising results  // Dr. Toni Beckmann (Soliton GmbH, Gilching, Germany)

04:10-04:30 pm  In vivo multimodal CARS and multiphoton imaging of human skin with a highly flexible tomograph  // Prof. Karsten König (JenLab GmbH, Jena, Germany)

04:30-06:30 PM POSTER SESSION WITH BEER & PRETZELS

TUESDAY, 04.04.17

09:00-09:40 am  Fiber-based sources for bio-medical imaging  // Invited Speaker 4: Prof. Jens Limpert (Institute of Applied Physics, Jena, Germany)

09:40-10:00 am  Optimised synchronisation of solid-state lasers for enhanced contrast in femtosecond SRS microscopy  // Dr. Sarah Saint-Jalm (University of Exeter, UK)

10:00-10:20 am  Photonic Time Stretch for Broadband Stimulated Raman Scattering  // Daniele Viola (Polytechnic University of Milan, Italy)

10:20-10:40 AM COFFEE BREAK

10:40-11:20 am  Solvent mediated vibrational coherence decay: Excited state dynamics study using ultrafast Raman loss spectroscopy  // Invited Speaker 5: Prof. Siva Umapathy (Indian Institute of Science, Bangalore, India)
11:20-11:40 am  Novel strategies for the fast, accurate, and quantitative extraction of resonant vibrational responses from CARS spectra // Dr. Andreas Volkmer (University of Stuttgart, Germany)

11:40-12:00 pm  Modeling linear chirp effects in coherent anti-Stokes Raman scattering // Dr. Michele Marrocco (ENEA Rome, Italy)

12:00-01:00 PM LUNCH

01:00-01:40 pm  Ultrafast spectrochronography and high-harmonic spectroscopy with ultrashort pulses in the mid-infrared // Invited Speaker 6: Prof. Aleksei Zheltikov (Moscow State University, Russia)

01:40-02:00 pm  Broadband Fourier-Transform Stimulated Raman Scattering at 20-MHz Modulation // Antonio Perri (Polytechnic University of Milan, Italy)

02:00-02:20 pm  Multimodal Nonlinear Microscope by a Compact Fiber-Laser System // Dr. Vikas Kumar (Polytechnic University of Milan, Italy)

02:20-02:40 pm  Detection of environmental microplastics with stimulated Raman scattering (SRS) microscopy // Liron Zada (VU Amsterdam, Netherlands)

02:40-03:00 pm  Stimulated Raman based microtomography of microfossils for paleoclimate reconstruction approaches // Christian Steuwe (Catholic University of Leuven, Belgium)

03:00-03:30 PM COFFEE BREAK

03:30-09:00 pm  Tour at Leuchtenburg Castle and Conference Dinner at Historic Restaurant
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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Institution</th>
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<td>09:00-09:40 am</td>
<td><strong>Applications of Ultrashort XUV Pulses</strong> // Invited Speaker 7: Prof. Marc Vrakking (Max Born Institute Berlin, Germany)</td>
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<td>09:40-10:00 am</td>
<td><strong>XUV – Time Resolved Four Wave Mixing With A Free Electron Laser</strong> // Dr. Gregor Knopp (Paul Scherrer Insitute, Villigen, Switzerland)</td>
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<td>10:00-10:20 am</td>
<td><strong>Super-resolved Raman Spectra of Pure Silicon</strong> // Dr. Dror Malka (Institute of Technology Holon, Israel)</td>
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<td><strong>COFFEE BREAK</strong></td>
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<td>10:40-11:00 am</td>
<td><strong>Coherent Raman Scattering for Agrochemical Research &amp; Development</strong> // Nicholas Gaunt (University of Exeter)</td>
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<td>11:00-11:20 am</td>
<td><strong>Laser fluorescence method in diagnostics of chronic tonsillitis</strong> // Alina Timurzieva (University Hospital Dresden, Germany)</td>
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<td>11:20-11:40 am</td>
<td><strong>SERS and SE-CARS micro-spectroscopy for high-throughput multiplex immunoassays</strong> // Dr. Rabah Mouras (University of Limerick, Ireland)</td>
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<td>11:40-12:00 pm</td>
<td><strong>The Theory of Surface Enhanced Hyper Raman Scattering</strong> // Dr. Aleksey Polubotko (Ioffe Physical-Technical Institute, Saint Petersburg, Russia)</td>
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<td>12:00-12:20 PM</td>
<td><strong>CLOSING REMARKS &amp; FAREWELL</strong></td>
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