

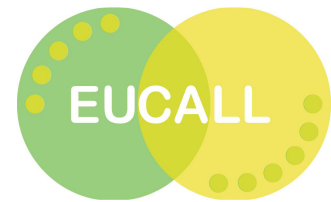
## Addressing Societal Challenges using Advanced Laser Light Sources 26 - 27 April 2018

Venue: **Deutsches Elektronen-Synchrotron (DESY)**  
CSSB Auditorium, Notkesstraße 85, 22607 Hamburg, Germany

### Thursday 26 April 2018

Time	Programme
12:00	Registration and light lunch
13:00	<i>Welcome to DESY</i> – R. Brinkmann / DESY
13:10	<i>Introduction to the workshop</i> – T. Tschentscher / European XFEL
	<b>Technology and Engineering</b>
13:20	<i>3D movies on multiple length scales: a new paradigm for bulk materials</i> – H-F. Poulsen / Technical Uni. Denmark
14:00	<i>Ultrafast phenomena at surfaces</i> – M. Aeschlimann / Uni. Kaiserslautern
14:30	Coffee Break
	<b>Materials for Information Technology</b>
15:00	<i>Exploring ultimate time-scales in information technology: The role of ultrashort x-ray pulses</i> – C.M. Schneider / FZ Jülich
15:40	<i>Quantum optics and quantum information processing implemented with FEL light</i> - J. von Zanthier / Uni. Erlangen-Nuremberg
16:10	<i>Use of femtosecond x-ray pulses in understanding ultrafast magnetism</i> – J. Lüning / Université Pierre et Marie Curie
16:50 – 18:00	Visit to <i>PETRA III</i> and <i>FLASH</i>
18:00 – 22:00	Poster session and Dinner





## Friday 27 April 2018

Time	Programme
	<b>Energy</b>
09:00	<i>Understanding how sunlight powers the world - The role of modern x-ray science</i> – P. Wernet / HZB
09:40	<i>Use of light sources for development in photovoltaics</i> – M. Chergui / EPFLausanne
10:10	<i>Ultrafast laser spectroscopy of materials and devices for solar energy conversion</i> – J. Durrant / Imperial College
10:40	Coffee Break
	<b>Health</b>
11:10	<i>Methods and light sources for ultrafast life science research</i> – J. van Thor / Imperial College
11:50	<i>Opportunities for drug discovery at light sources</i> – M. Hennig (leadXpro)
12:20	<i>Tracking ultrafast electron dynamics in bio-relevant molecules</i> – F. Calegari / DESY
12:50	Wrap up and Close-out – T. Tschentscher / European XFEL
13:00	End of Workshop

