0etrology for solid state lighting, Wednesday 24th April 2013

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| **Time** | **Title** | **Speaker** |
| 08:30 | **Registration, coffee & exhibition** |  |
| 09:15 | Welcome & meeting information | David Gibbs  Optical Measurement Group Leader |
| 09:30 | Introduction to the European Metrology Research Programme | Dr Robin Hart,  Director of Programmes, NPL |
| 09:45 | Metrology for Solid State Lighting EMRP project | Dr. Marijn van Veghel, VSL |
| 10:15 | Measurement of the power factor for SSL lamps | Jean-Pierre Braun EJPD, Switzerland |
| 10:45 | **Coffee & exhibition** |  |
| 11:00 | Comparison report on efficacy determination of three SSL products through regular calibration services | Dr. Elena Revtova, VSL, Netherlands |
| 11:15 | Mitigating the “Green droop” effect of Nitride LEDs | Simon Hall, NPL, UK |
| 11:45 | Traceable spectral measurements | Armin Sperling, PTB, Germany |
| 12:15 | **Lunch & exhibition** |  |
| 13:30 | Mesopic Photometry for SSL | Teresa Goodman, NPL, UK |
| 14:00 | Quality metrics for SSL characterization | Paola Lacomussi, INRIM, Italy |
| 14:30 | SSL aging: prediction, measurement and accelerated measurement strategies | Hans Baumgartner, Aalto, Finland |
| 15:00 | **Tea & exhibition** |  |
| 15:30 | Human perception of SSL | Dominique Renoux, LNE, France |
| 16:00 | Bridging the gap, the physics of InGaN LED devices | Daren Lock, Research Excellence Grant researcher, Advanced Technology Institute, University of Surrey |
| 16:30 | Standardisation impact and current status for SSL | Giuseppe Rossi, INRIM, Italy |
| 17:00 | Discussion |  |
| 17:30-19:00 | **Drinks reception and exhibition** | With thanks to Philips Lighting for supporting this event |



Parallel Session: Electrical Measurements, Wednesday 24th April 2013

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| **Time** | **Title** | **Speaker** |
| 12:15 | **Lunch & exhibition** |  |
| 13:30 | Measurement of electrical power of SSL over a wide frequency range | Torsten Lippert,  Trescal, Denmark |
| 14:00 | Good Practice guide for traceable electrical measurements of SSL | Jean-Pierre Braun EJPD, Switzerland |
| 14:30 | Comparison on electrical characterization of SSL and uncertainty analysis | Dr. Dongsheng Zhao,  VSL, Netherlands |
| 15:00 | **Tea & exhibition** |  |
| 15:30 | Electrical properties of Solid State Lighting sources | Torsten Lippert,  Trescal, Denmark |
| 16:00 | Discussion and future directions |  |

Metrology for solid state lighting, Thursday 25th April 2013

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| **Time** | **Title** | **Speaker** |
| 09:00 | **Registration, coffee & exhibition** |  |
| 09:15 | Welcome | Simon Hall & Paul Miller, NPL, UK |
| 09:20 | Measurement Network | Tiju Joseph, NPL,UK |
| 9:30 | Measurement of Commercially Available Solid State Lighting products: UK Round Robin | Paul Miller, NPL, UK |
| 9:55 | Relationships between junction temperature, forward voltage & spectrum in SSL | Petri Kaha, Aalto, Finland |
| 10:20 | **Coffee & exhibition** |  |
| 10:50 | Guideline for the calibration of near-field goniophotometers | Marco Lopez, PTB, Germany |
| 11:15 | Methodologies for the spectral radiant flux measurements for use in greenhouses | Dr. Elena Revtova, VSL, Netherlands |
| 11:40 | Sector Case study of LED street lighting | Marieke Beckmann, Centre for Carbon Measurement, NPL |
| 12:05 | **Lunch & exhibition** |  |
| 13:30 | Characterised mesopic photometer | Michaela Schuster, PTB, Germany |
| 13:55 | The issues of measurement of optical hazard using photometers | Simon Hall, NPL, UK |
| 14:20 | SSL colour quality | Dominique Renoux, LNE, France |
| 14:45 | **Tea & exhibition** |  |
| 15:15 | Guidelines for application of SSL in state of the art lighting applications | Dusan Sabol, SMU, Slovakia |
| 15:40 | IEA 4E SSL Interlaboratory comparison and work with the accredition bodies | Michael Scholand, Operating Agent Support, IEL 4ESSL |
| 16:05 | Impact and future opportunities for SSL measurements & discussion | Dr. Marijn van Veghel, VSL, Netherlands |
| 16:30 | **Meeting close** |  |

