

NEWRAD2017 Program (Ver.3 on June 6, 2017)

June 13, 2017 (TUE)

Time	ID	Speaker	Title
Session (1)	Chair: Erkki Ikonen		
9:00 - 9:30	INV-0	Tatsuya Zama	Welcome address and introduction of photometry and radiometry research activity in Japan
9:30 - 9:50	EAO-O-1	Steven van den Berg	Traceability of the Network for Detection of the Mesospheric Change (NDMC) to radiometric standards via a Near Infrared Filter radiometer
9:50 - 10:10	EAO-O-2	Lydia Zajiczek	Prototype of Cryogenic Solar Absolute Radiometer and Transfer Radiometer for On-Board Calibration of Spectral Earth Imager
10:10 - 10:30	EAO-O-3	Kurt Thome	Detector-based calibration of ultra-portable field transfer radiometer for vicarious calibration of earth imaging sensors
10:30 - 11:00	Coffee Break		
Session (2)	Chair: Joaquin Campos		
11:00 - 11:30	INV-1	Nigel Fox	Enabling SI traceable observations of the Earth to monitor and mitigate climate change
11:30 - 11:50	EAO-O-4	Anna Vaskuri	Contamination and UV Ageing of Diffuser Targets Used in Satellite Inflight and Ground Reference Test Site Calibrations
11:50 - 12:10	EAO-O-5	Emma Wooliams	Applying Metrological Techniques to Satellite Fundamental Climate Data Records
12:10 - 13:40	Lunch		
Session (3)	Chair: Nigel Fox		
13:40 - 14:10	INV-2	John Woodward	Spectroradiometric Calibration of Astronomical Objects
14:10 - 14:30	SSR-O-1	Julian Gröbner	High resolution extraterrestrial solar spectrum determined from ground-based measurements of direct solar irradiance
14:30 - 14:50	SSR-O-2	Xiaoxiong Xiong	VIIRS Instrument On-orbit Solar and Stellar Calibration
14:50 - 15:10	SSR-O-3	Luca Egli	Uncertainty calculations of total column ozone retrievals from spectral direct solar irradiance measurements
15:10 - 15:30	SSR-O-4	Mustapha Meftah	JTSIM/DARA, a new innovative development space-based radiometer to measure the total solar irradiance for the next decades
15:30 - 15:50	SSR-O-5	Wolfgang Finsterle	A cryogenic scale for solar irradiance measurements
15:50 - 16:20	Coffee Break		
Session (4)	Chair: Stefan Kück		
16:20 - 16:50	INV-3	Harald Muellejans	Traceable calibration of photovoltaic reference cells using natural sunlight
16:50 - 17:10	DBA-O-1	Haifeng Meng	Calibration of New Type Non-silicon Solar Cells' Photoelectric Conversion Efficiency
17:10 - 17:30	DBA-O-2	Saulius Nevas	Characterisation of Dobson Spectrophotometers Using a Tuneable Pulsed Laser
17:30 - 17:50	DBA-O-3	Minoru Tanabe	Nonlinearity Suppression and Supralinearity Prediction for Inversion Layer Silicon Photodiode
17:50 - 18:10	DBA-O-4	Marit Ulset Nordsveen	Self-calibrating detector realised as an "NMI-on-a-chip" for optical power measurements at room temperature
18:10 - 18:30	DBA-O-5	Joshua Hadler	Comparison of Three Different NIST-Developed Primary Standards for Multi-kW Laser Power Measurement

June 14, 2017 (WED)			
Time	ID	Speaker	Title
Session (5)	Chair: John H. Lehman		
9:00 - 9:30	INV-4	Paul Williams	Photon momentum - an unexpected tool for laser power measurement
9:30 - 9:50	DBS-O-1	Ivan Ryger	Silicon Micromachined Capacitive Force Scale: The Way to Improved Radiation Pressure Sensing
9:50 - 10:10	DBS-O-2	Timo Juhani Donsberg	Predictable quantum efficient detector based on n-type silicon photodiodes
10:10 - 10:30	DBS-O-3	Thomas Gerrits	Progress on Single Photon Detector Efficiency Calibrations at NIST
10:30 - 11:00	Coffee Break		
Session (6)	Chair: Seung-Nam Park		
11:00 - 11:20	DBS-O-4	Andreas Steiger	Detector Based Terahertz Radiometry
11:20 - 11:40	DBS-O-5	Malcolm Graham White	Characterisation of New Planar Radiometric Detectors using Carbon Nanotube Absorbers under Development at NIST
11:40 - 12:00	DBS-O-6	John H. Lehman	Spectrally Uniform Cryogenic Radiometer from 0.4 μm to 400 μm
12:00 - 13:30	Lunch		
13:30 - 15:30	Poster Session (A)		
15:30 - 16:00	Coffee Break		
Session (7)	Chair: Gerhard Ulm		
16:00 - 16:30	INV-5	Yoshihiro Ishigami	The history of higher sensitivity photocathodes' development and the recent research in Hamamatsu Photonics
16:30 - 16:50	OT-O-1	Lutz Werner	Comparison of different methods for key comparison analysis by means of examples
16:50 - 17:20	INV-6	Seung Kwan Kim	Tunable Narrow Band Sources for Metrology in Mid-Infrared Range

June 15, 2017 (THU)			
Time	ID	Speaker	Title
Session (8)	Chair: Marek Smid		
9:00 - 9:30	INV-7	Petri Kärhä	Relationships between junction temperature, electroluminescence spectrum, and ageing of LEDs
9:30 - 9:50	OPM-O-1	Annette Koo	Polarization dependence of bidirectional reflectance from ceramic tiles
9:50 - 10:10	OPM-O-2	Hiroshi Shitomi	Novel BaSO ₄ coating for an integrating sphere processed with thermal spraying
10:10 - 10:30	OPM-O-3	Dong-Hoon Lee	Design of a new compact spectrometer based on a linearly variable edge filter
10:30 - 11:00	Coffee Break		
Session (9)	Chair: Yoshi Ohno		
11:00 - 11:20	OPM-O-4	Guillaume Ged	Absolute BRDF measurements with ultra-high angular resolution for the characterization of optical surfaces
11:20 - 11:40	OPM-O-5	Alexander Gottwald	Optical Constants in the VUV spectral range by angle-dependent reflectometry on the example of B ₄ C
11:40 - 12:00	OPM-O-6	Joanne C.M. Zwinkels	Investigation of Converging and Collimated Beam Instrument Geometry on Specular Gloss Measurements
12:00 - 13:30	Lunch		
13:30 - 15:30	Poster Session (B)		
15:30 - 16:00	Coffee Break		
Session (10)	Chair: Jarle Gran		
16:00 - 16:30	INV-8	Solomon I. Woods	SQUID-ACR with Nano-kelvin Thermometry
16:30 - 16:50	QOT-O-1	Ivo Pietro Degiovanni	Coordinated Metrological Effort for Quantum Key Distribution Industry
16:50 - 17:10	QOT-O-2	Aigar Vaigu	Experimental demonstration of a predictable single photon source with variable photon flux
17:10 - 17:30	QOT-O-3	Beatrice Rodiek	Absolute single-photon source based on a nitrogen-vacancy center in nanodiamond

June 16, 2017 (FRI)			
Time	ID	Speaker	Title
Session (11)	Chair: Tatsuya Zama		
9:00 - 9:30	INV-9	Yoshiki Yamaji	Development of new standard LED covering the full visible light wavelength
9:30 - 9:50	SBR-O-1	Hans Baumgartner	LED based reference for wavelength and relative intensity
9:50 - 10:10	SBR-O-2	Meelis Mait Sildoja	LED-based UV monitoring source
10:10 - 10:30	SBR-O-3	Armin Sperling	Multiple Transfer Standard for Photometry
10:30 - 11:00	Coffee Break		
Session (12)	Chair: Julian Gröbner		
11:00 - 11:20	SBR-O-4	Boris Khlevnoy	Development of Large-area High-Temperature Fixed-Point Blackbodies for Photometry and Radiometry
11:20 - 11:40	SBR-O-5	Bernard Rougie	Thermodynamic measurement and validation of a high temperature blackbody for spectral radiance and irradiance reference
11:40 - 12:00	Close		Closing remark by Tatsuya Zama and Julian Gröbner
12:00	Lunch on the bus on the way to the lab tour		

Session categories in the program.

Earth observation (EAO)

Solar/stellar radiometry (SSR)

Quantum optics technologies (QOT)

Source-based radiometry (SBR)

Detector-based radiometry: scale realizations (DBS)

Detector-based radiometry: applications (DBA)

Optical properties of materials/components (OPM)

Other topic (OT)