

NEWRAD 2011 Program (version 16 Sept 2011)

Day/Time	Ref. code	Speaker and title/Event
Monday 19 Sept 2011		
	Session 1a	Chaired by Erkki Ikonen
09:00 ~ 09:30	INV-1	Mark Yarbrough, Multi-input fiber optic coupled spectroradiometer and applications in ocean color measurement
09:30 ~ 10:00	INV-2	Kurt Thome, Calibration Accuracy for Climate-Quality Data Sets from Space Observations
10:00 ~ 10:30		Coffee Break
	Session 1b	Chaired by Maria Luisa Rastello
10:30 ~ 11:00	INV-3	Carol Johnson, NIST efforts for calibrations in Earth Observation programs
11:00 ~ 11:20	OPM_OR_027	L. Hanssen, NIST: NIST – PTB Joint Study of Far Infrared Selected Black Coatings
11:20 ~ 11:40	OPM_OR_017	C. Chunnillall, NPL: Infrared hemispherical reflectance measurements in the 2.5 mm to 50 mm wavelength region using an FT spectrometer
11:40 ~ 12:00	OPM_OR_021	H. Patrick, NIST: BRDF measurements of graphite used in high-temperature fixed point blackbody radiators: a multi-angle study at 405 nm and 658 nm
12:00 ~ 13:00		Lunch – Meet outside Haleakala 3/4 for lunch
13:00 ~ 18:00	Special Session	Earth Observation Chaired by Nigel Fox
	EAO_OR_001	D. Antoine, New measurements of the intensity and geometrical structure of the upwelling and downwelling underwater light fields
	EAO_OR_003	J. Gero, On-orbit Absolute Blackbody Emissivity Determination Using the Heated Halo Method
	EAO_OR_005	B. Khlevnoy, Current activity of Russia in measurement assurance of Earth optical observation
	EAO_OR_008	J. Taylor, The University of Wisconsin Space Science and Engineering Center Absolute Radiance Interferometer
About	EAO_OR_009	S. Mekhontsev, Primary Realization of Both Spectral Radiance and Reflectance in the Mid- and Far-Infrared for Climate Change Science Support
15:00 ~ 15:30	EAO_OR_013	A. K. Shukla, Vicarious Calibration of OCM-2 Sensor using Karavatti CAL/VAL Site
Coffee	EAO_OR_015	J. Rice, Radiometric Characterization of a Hyperspectral Image Projector
Break	EAO_OR_016	M. Kowalewski, Characterization of the Airborne Compact Atmospheric Mapper during the Global Hawk Pacific Campaign
	EAO_OR_018	S. Lavender, Applying Uncertainties to Ocean Colour Data
	EAO_OR_021	S. Schiller, Vicarious Calibration of the IKONOS Earth Observing Sensor Using The Specular Array Radiometric Calibration Method
	EAO_OR_024	D. Helder, Recent Surface Reflectance Measurement Campaigns With Emphasis on Best Practices, SI Traceability and Uncertainty Estimation

Day/Time	Ref. code	Speaker and title/Event
Tuesday 20 Sept 2011		
	Session 2a	Chaired by Petri Kärhä
09:00 ~ 09:30	INV-4	Erik Richard, Future Long-term Measurements of Solar Spectral Irradiance by the TSIS Spectral Irradiance Monitor: Improvements in Measurement Accuracy and Stability
09:30 ~ 09:50	DBR_OR_021	J. Gröbner, PMOD: The Infrared Integrating Sphere (IRIS) Radiometer for Atmospheric Longwave radiation Measurements
09:50 ~ 10:10	SSR_OR_001	X. Huang, A-STAR: A Differential Spectral Responsivity Measuring System for Solar Cell Calibration
10:10 ~ 10:30		Coffee Break
	Session 2b	Chaired by Kathryn Nield
10:30 ~ 11:00	INV-5	Wolfgang Finsterle, Cryogenic radiometer for total solar irradiance
11:00 ~ 11:20	SSR_OR_007	G. Kopp, Univ. Colorado: Total Solar Irradiance Data Record Accuracy and Consistency Improvements
11:20 ~ 11:40	SSR_OR_009	A. Fehlman, PMOD: Fourth World Radiometric Reference to SI radiometric scale comparison and implications to on-orbit measurements of the total solar irradiance
11:40 ~ 12:00	DBR_OR_001	J. Lehman, NIST: Fiber-Coupled Cryogenic Radiometer with Carbon Nanotube Absorber
12:00 ~ 14:00		Lunch & Poster session A
		Meet outside Haleakala 3/4 for lunch
		See a separate list of poster presentations in poster session A
	Session 3	Chaired by Yoshi Ohno
14:00 ~ 14:30	INV-6	Seongchong Park, Integrating sphere photometers designed for solid state lighting
14:30 ~ 14:50	OT_OR_008	M. Lopez, PTB: LED near-field goniophotometer at PTB
14:50 ~ 15:10	DBR_OR_045	T. Poikonen, Aalto: Luminous Efficacy Measurement Setup for Solid State Lamps
15:10 ~ 15:30	SBR_OR_009	T. Gerloff, PTB: OLED Transfer Standards
16:00		Sunset Cruise – Meet at the group entrance for transport

Day/Time	Ref. code	Speaker and title/Event
Wednesday 21 Sept 2011		
	Session 4a	Chaired by Seungnam Park
09:00 ~ 09:30	INV-7	Armin Sperling, Tuneable lasers for photometry and radiometry
09:30 ~ 09:50	DBR_OR_039	Y. Zong, NIST: New Method for Spectral Irradiance and Radiance Responsivity Calibration using Pulsed Tuneable Lasers from 210 nm to 2500 nm
09:50 ~ 10:10	SBR_OR_002	Y. Deng, NIM: Automatic and Accurate Characterization of Femtosecond Optical Pulses
10:10 ~ 10:30		Coffee Break
	Session 4b	Chaired by Gerhard Ulm
10:30 ~ 11:00	INV-8	Farshid Manoocheri, Predictable Quantum Efficient Detector (PQED)
11:00 ~ 11:20	DBR_OR_011	W. Dong, NIM: Nonlinearity measurement of filter radiometers using water-cooled LED radiation sources
11:20 ~ 11:40	DBR_OR_009	E. Theocharous, NPL: Absolute linearity measurements on a PV HgCdTe detector in the infrared
11:40 ~ 12:00	DBR_OR_032	G. Eppeldauer, NIST: Development of new-generation transfer-standard pyroelectric radiometers for monochromator use
12:00 ~ 14:00		Lunch & Poster Session B
		Meet outside Haleakala 3/4 for lunch
		See a separate list of poster presentations in poster session B
12:00 ~ 14:00	In ILIMA 2/3	NEWRAD Science committee meeting
	Session 5	Chaired by Klaus Stock
	INV-9	Cancelled: Stephan Götzinger, Single-photon sources with near unity efficiency
14:00 ~ 14:20	SBR_OR_016	P. Kärhä, Aalto: Tungsten Filament Lamps as Absolute Radiometric Reference Sources
14:20 ~ 14:40	OPM_OR_011	A. Koo, IRL: Temporal and temperature dependence of transmittance standards
14:40 ~ 15:00	OPM_OR_025	H. Shitomi, AIST: Optical properties of Al ₂ O ₃ and Al ₂ O ₃ /BaSO ₄ reflecting diffusers processed with plasma powder spraying
15:00 ~ 15:20	DBR_OR_18	S. Winter, PTB: The concept of PTB's next generation solar cell and detector calibration facility
16:15 ~ 21:00		Luau Banquette- Meet at the group entrance for transport

Day/Time	Ref. code	Speaker and title/Event
Thursday 22 Sept 2011		
	Session 6a	Chaired by Mark Yarbrough
09:00 ~ 09:30	INV-10	Daiji Fukuda, Novel photon detector utilizing superconducting light detection technology
09:30 ~ 09:50	OT_OR_004	A. Gottwald, PTB: Current capabilities at the Metrology Light Source
09:50 ~ 10:10	DBR_OR_040	N. Tomlin, NIST: Fully Lithographic Fiber-coupled Cryogenic Radiometer for Picowatt Powers
10:10 ~ 10:30		Coffee Break
	Session 6b	Chaired by Julian Gröbner
10:30 ~ 11:00	INV-11	Alan Migdall, Bridging the Gap: Radiometry from Watts to Single-Photons
11:00 ~ 11:20	SBR_OR_013	S. Nevas, PTB: Stability of Array Spectroradiometers and their Suitability for Absolute Calibrations
11:20 ~ 11:40	DBR_OR_028	S. Brown, NIST: Stray light correction algorithm for multi-channel spectrographs
11:40 ~ 12:00	DBR_OR_033	L. Werner, PTB: Temporal instability of photodiodes in the UV
12:00 ~ 13:00		Lunch
13:00 ~ 18:00	Special Session	Few Photon Metrology Chaired by Dong-Hoon Lee
13:00 ~ 13:20	SFR_OR_006	G. Brida, Toward traceable Few Photon Radiometry
13:20 ~ 13:40	SFR_OR_002	I. Mueller, Traceable calibration of Si-avalanche photodiodes using synchrotron radiation
13:40 ~ 14:00	SFR_OR_008	U. Arp, Calibration of photomultiplier tubes for few photon applications using synchrotron radiation
14:00 ~ 14:20	SFR_OR_007	G. Porrovecchio, A transfer standard for the low power / few photon regime - the trap detector plus switched integrator amplifier
15:00 ~ 15:30		Coffee break
15:40 ~ 16:00	SFR_OR_005	S. Peters, Studying Photon Number Distribution of NV-Centre Emission in Nano-Diamonds
16:00 ~ 16:20	SFR_OR_003	T. Gerrits, Extending Single-Photon Optimized Superconducting Transition Edge Sensors Beyond the Single-Photon Counting Regime
16:20 ~ 16:40	SFR_OR_001	E. Theocharous, The evaluation of two InGaAsP/InP Geiger-mode avalanche photodiodes at NPL
16:40 ~ 17:00	SFR_PostD_001	G. Brida <i>et al.</i> , Photon number resolving detectors: absolute Calibration without reference standards