



Programme (13/8/2013)

7th Workshop on

ULTRAVIOLET RADIATION MEASUREMENTS

**Davos, Switzerland,
27 – 28 August 2013**



Preliminary programme

Tuesday, August 27, 2013

- 8:00 - 8:45 Registration, preparations of the poster exhibition
- 8:45 - 8:50 Welcome words by Prof. Werner Schmutz Director of PMOD/WRC
- 8:50 - 9:00 Outline of the programme by Petri Kärhä
- 9:00 - 9:30 Julian Gröbner, EMRP ENV03 Traceability for surface spectral solar ultraviolet radiation
- 9:30 - 10:50 **Session 1 Novel Detectors and Devices** (Chairman Petri Kärhä)
- Peter Blattner, Fabry-Perot etalon for characterizing the wavelength scale of UV spectrometers
 - Steven van den Berg, A wavelength ruler for the solar UV wavelength range
 - Tomi Pulli, Improved Diffusers for Solar UV measurements
 - Stefan Nowy, Characterization of light-emitting diodes in the solar UV spectral range
- 10:50 - 11:20 Coffee break
- 11:20 - 12:20 **Session 1 Novel Detectors and Devices, Cont.** (Chairman Marek Smid)
- Geiland Porrovecchio, Hybrid detection system for the solar reference UV solar spectrometer QASUME
 - A. Ben Moussa, Developments of AlN photodiodes for UV Solar Observations
 - Marco Pisani, Realization of a UV fisheye hyperspectral camera
- 12:20 - 14:30 Lunch / PMOD visit
- 14:30 - 16:10 **Session 2 Array Spectroradiometers** (Chairman Saulius Nevas)
- Luca Egli, Stray light characterization and correction methodologies tested with a modified array spectroradiometer
 - Mario Blumthaler, Characterisation of the IMU array spectroradiometer
 - Rebecca Hooke, Autonomous Portable Solar Ultraviolet Spectroradiometer (APSUS) - a new diode array spectrometer system for localised, real-time solar ultraviolet radiation measurement
 - A. Feldman, Novel micro mirrors based diode array UV solar spectrometer
 - Jimmy Dubard, Monte Carlo uncertainty evaluation of UV solar spectral irradiance measurements using array spectroradiometer
- 16:10 - 16:30 Coffee break

16:30 - 18.00 **Poster Session**

- S. Facta, Characterization of broadband UV radiometers in the Arpa Piedmont Optical Laboratory and intercomparison with the World Calibration Center for UV (WCC-UV)
- Steven van den Berg , A collimated laser driven light source for the solar UV wavelength range
- Richard Kift, Initial laboratory instrument characterisation and solar simulator measurements of Manchester spectrometers involved in the EMRP project.
- N. Kouremeti, Experiences with miniature CCD- spectrographs for UV-VIS solar and sky radiance measurements
- Luciano Bachmann, Laboratory of Optical Radiometry and Dosimetry of the University of São Paulo - Ribeirão Preto Campus
- Uwe Feister, Sahara dust effect on solar UV radiation components
- L. Lolli, UV detectors based on zinc-oxide thin films
- Neil Swift, Upgrade of the New Zealand Urban UVB Network

18:00 End of day 1

18:00
- PMOD visit

19:00

20:00 Workshop Dinner at Schatzalp Davos

Wednesday, August 28, 2013

9:00 - 10:20 **Session 3 Calibrations** (Chairman Peter Blattner)

- Saulius Nevas, Calibration of the QASUME reference spectroradiometer for the terrestrial solar UV irradiance measurements
- Peter Meindl, Characterization and Calibration of a Fourier Transform Spectroradiometer for Solar UV Irradiance Measurements
- Gregor Hülsen, Qasume Site Audits

Session 4 Applications (Chairman Julian Gröbner)

- Andrew Smedley, Application of a dual-channel solid state spectrometer to measure spectral surface radiation and atmospheric constituents: some early results and practical considerations

10:20 - 10:50 Coffee break

10:50 - 11:50 **Session 4 Applications, Cont.** (Chairman Julian Gröbner)

- Roberto Carrasco-Hernandez, Calculations of street level spectral irradiances using the Google Street View photographic database: Implementation and potential applications on ultraviolet light studies
- Matthias Gröbner, UV Dosimetry study and Vitamin D production in a group of school-adolescents at Davos, Winter to Summer 2013
- Richard Kift, A modelling approach to determine how much UVB radiation is available across the UK for the cutaneous production of vitamin D

11:50 - 12:30 Discussion about coming activities

13:15 - 14:30 Lunch at Weissfluhjoch (Depending on Weather Conditions)

14:30 - 16:30 Excursion to SLF Facilities at Weissfluhjoch or Davos

Good footwear and a warm jacket are required for the walk from Weissfluhjoch to the SLF experimental site.

Oral presentations

The length of the oral presentations is 15 minutes plus approximately 4 minutes for discussion unless otherwise stated.

Posters

Posters should have a maximum size of 120 cm (height) x 90 cm (width).

Workshop Dinner

Workshop dinner takes place at Schatzalp restaurant in Davos on the evening of 27 August. We will meet at the bottom of the Schatzalpbahn and take the train to the restaurant.