

**Eleventh BSRN Scientific Review and Workshop
Queenstown, New Zealand, 13-16 April 2010
Agenda**

13 April, Tuesday

- 08:00 – 08:30 Registration
Opening Session
08:30 – 08:40 Ellsworth Dutton and Graeme Strang – Meeting opening and logistics
08:40 – 09:10 Richard McKenzie – Overview of New Zealand/Niwa atmospheric science activities
09:10 – 09:25 Dawn Erlich – Overview of GEWEX activities
09:25 – 09:40 Richard Thigpen – Status of GCOS improvement activities
09:40 – 10:00 Ellsworth Dutton – BSRN review and expectations for the meeting
10:00 – 10:30 **Break** (poster set-up and viewing)

Observatories – Status and Proposals (other status reports are in Posters)

- 10:30 – 10:50 Nozumu Ohkawara – New BSRN stations in Japan
10:50 – 11:10 Jordi Badosa – Nine years (2000-2009) of Radiation Measurements at Lauder, New Zealand
11:10 – 11:50 Ells Dutton – Proxy reports and discussion on newly proposed sites
11:50 – 13:30 **Lunch and Poster Viewing**

Archive Activities and Data Quality Control

- 13:30 – 14:00 Gert König-Langlo – Status of the World Radiation Monitoring Center
14:00 – 14:20 Anatoly Tsvetkov – WRDC activities under the GAW program: Recent updates
14:20 – 14:40 Taiping Zhang – Analysis of the BSRN data and its application in validating GEWEX SRB Release 3.0 data
14:40 – 15:00 Discussion on BSRN archiving procedures and services
15:00 – 15:30 **Break (Posters)**

Basic Observations – Analysis and Review

- 15:30 – 15:50 Martin Wild – Decadal changes in surface radiation fluxes
15:50 – 16:10 Stefan Wacker – Trend analysis of downwelling longwave radiation from Alpine Surface Radiation Budget (ASRB) Network sites
16:10 – 16:30 Ben Liley – Aerosols and global dimming
16:30 – 16:55 Xiangao Xia – Closer look at brightening and dimming in China

14 April, Wednesday

Instrument Special Reports

- 08:30 – 09:00 Julian Gröbner – Calibration activities at the World Radiation Center, PMOD/WRC
09:00 – 09:50 Tom Stoffel and Joe Michalsky – An extensive variable weather comparison of pyrhemometers
09:50 – 10:20 **Break (Posters)**
10:20 – 10:30 Chuck Long – Correcting for tilt in aircraft and ocean shortwave observations using the diffuse to direct ratio

Working Group Reports

- 10:30 – 10:50 IR Working Group – Julian Gröbner
10:50 – 11:30 Aerosol Optical Depth Working Group – Bruce Forgan
11:30 – 11:50 Spectral Irradiance Observations WG – Joseph Michalsky
11:50 – 13:00 **Lunch**
13:00 – 13:20 Pyranometer WG – Halliwell
13:20 – 13:40 Measurement Uncertainties Working group – B. Forgan
13:40 – 14:00 Cold Climate Issues Working Group (new) – C. Long
14:00 – 14:20 Long Term Data Sets Issues and Analysis Working Group (new) – M. Haeffelin
14:20 – 15:15 Open discussion on Working Group needs and activities
15:15 – 15:45 **Break (Posters)**

Clouds and Aerosols

- 15:45 – 16:05 Christoph Wehrli – The GAW-PFR AOD network and its calibration
16:05 – 16:25 John Augustine – Explaining the seasonal variation of Multifilter Rotating Shadowband Radiometer in situ calibrations
16:25 – 16:45 Mikhail Alexandrov – The Glory of Radiation: Multi-angle polarized remote-sensing of surfaces, aerosols and clouds
18:00 – Group Dinner

15 April, Thursday

09:00 -- 18:00 Field trip to Lauder BSRN Station

16 April, Friday

Clouds and Aerosols (con't)

08:30 – 08:50 Chuck Long – Detection of the occurrence and impacts of island influence on Nauru ARM/BSRN measurements

08:55 – 09:20 Martial Haeffelin – Cirrus effect on shortwave radiation incident upon the surface

09:20 – 09:50 Christian Lanconelli – Radiation regime and cloud characteristics of the East Antarctic Plateau; as derived from a 4-year record from Dome Concordia

09:50 -- 10:30 **Break** (next to last chance to view posters)

UV, Albedo and Special Applications

10:30 – 11:00 Richard McKenzie – UVI Research

11:00 – 11:30 Laurent Vuilleumier – Estimation of cloud effect on UV erythral irradiance using SW irradiance data

11:30 – 11:40 Christian Lanconelli – UV measurements in the centre of East Antarctic Plateau

11:40 – 12:00 Tom Stoffel – Evaluation of radiometers at the US Solar Radiation Research Laboratory

12:00 – 13:10 Lunch

13:10 – 13:30 Tom Stoffel – Solar resources for photovoltaic variability

13:30 – 14:00 Gary Hodges – Variability of total, white and black sky spectral albedo at US-DOE Atmospheric Radiation Measurement Facility

14:00 – 14:20 Laurent Vuilleumier – Evolution of surface reflectivity in Switzerland between 1980 and 2008

14:20 – 14:40 Joe Michalsky – Comparison of RSS spectral measurement and RT model calculations for clear skies

14:40 – 15:30 Ellsworth Dutton – The state and future of BSRN

15:30 – 16:30 Discussion, recommendations, wrap-up

Posters

Wouter Knap and Ping Wang--Shortwave closure and validation of satellite derived global radiation

Jordi Badosa--Ten years (1999-2009) of radiation measurements in Lauder, New Zealand

Fred Denn--Observations from the Chesapeake Lighthouse

Jean-Phillipe Morel--The Global Dimming and the Brightening Periods at Carpentras

Martial Haeffelin--The Palaiseau BSRN station

Robert Albee--Obtaining energy budget measurements in the Arctic

Tom Stoffel--NREL Pyrheliometer Comparisons

Gary Hodges--Status and Updates of ASR (formerly ARM) BSRN sites

Gary Hodges--Status and Updates of SURFRAD BSRN sites

Klaus Behrens--Status of the Lindenberg BSRN station

David Halliwell--Status of the Regina BSRN station

Ain Kallis--Solar radiation measurements in Estonia

Laurent Vuilleumier--Status of the Payerne BSRN station

Vinod Jena and Sapana Gupta--Assessment of atmospheric aerosol pollution and their adverse effects