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Swiss Academy of Sciences
Akademie der Naturwissenschaften
Accademia di scienze naturali
Académie des sciences naturelles

HFSJG

High Altitude Research Stations
Jungfrauoch & Gornegrat



Umwelt
Forschungsstation
Schneefernerhaus



Spawning the Atmosphere Measurements of



Jungfrauoch, Switzerland



Schneefernerhaus, Germany



Sonnblick, Austria

A workshop organised by HFSJG and
the Jungfrauoch Commission of the SCNAT
with partners of the Virtual Alpine Observatory
Bern, January 22-23, 2014

HFSJG

Hochalpine Forschungsstationen
Jungfrauoch & Gornegrat

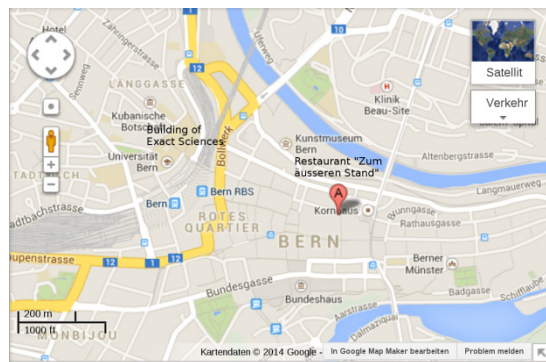
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**Programme for Wednesday, January 22, 2014, University of Bern,
Building of the Exact Sciences, Sidlerstrasse 5, CH-3012 Bern, Room B5**

Time	Topic	Speaker/Authors	Repr.
1330	Registration		
1345-1400	Aims of the Workshop	Martin C.E. Huber	JFJ Com.
1400-1430	Challenges in meteorology and climatology at a high alpine site	Martine Collaud (MeteoSwiss, CH)	General
1430-1700	Theme 1: Innovative approaches (chair HFSJG/UFS)	Markus Leuenberger	HFSJG
1430-1500	Tracking the signature of stable CO ₂ isotopes by quantum cascade laser spectroscopy	Lukas Emmenegger (Empa, CH)	HFSJG 1
1500-1530	Lagrangian transport modeling for regional scale inverse emission estimation	Dominik Brunner (Empa, CH)	HFSJG 2
1530-1600	<i>Coffee Break</i>		
1600-1620	Spatio-temporal deposition of persistent organic pollutants in the Alps (15 min)	Manfred Kirchner and Gert Jakobi (Helmholtz Centre, D)	UFS 1
1620-1650	Downscaling of climate change scenarios in high mountain regions using neural networks and atmospheric circulation type classifications (20 min)	Andreas Philipp (University Augsburg, D)	UFS 2
Evening	Dislocation (Hotel registration)		
1845-2145	<i>Dinner</i>		
ca. 1925	Welcome	Erwin Flückiger President HFSJG	HFSJG
ca. 2000-2010	The Alpine Research Station on Jungfrauoch – Origin, History and the Future (10 to 15 min)	Markus Leuenberger, Director, JFJ Research Station	HFSJG
ca. 2050-2100	UFS Schneefernerhaus — Origin, History and the Future (10 to 15 min)	Markus Neumann, Prokurist UFS Betriebsgesellschaft	UFS
ca. 2130-2140	Sonnblick observatory — Origin, History and the Future (10 to 15 min)	Bernhard Niedermoser, Representative of Austrian Zentralanstalt für Meteorologie & Geodynamik	ZAMG

**18:45 h Dinner at the Restaurant zum Äusseren Stand
Zeughausgasse 17, 3011 Bern (Phone: 031 329 50 50)**



**Programme for Thursday, January 23, 2014, University of Bern,
Building of the Exact Sciences, Sidlerstrasse 5, CH-3012 Bern, Room B5**

Time	Topic	Speaker/Authors	Repr.
0900-1030	Theme 2: GAW – D-A-CH: Trace gas measurements (chair Sonnblick)	Bernhard Niedermoser	Sonnblick
0900-0930	Non-CO ₂ greenhouse gas measurements for trend analysis and international protocols	Stefan Reimann (Empa, CH)	HFSJG 3
0930-1000	Baseline Surface Radiation Network (BSRN) station	Marc Oelefs (ZAMG, A)	Sonnblick 1
1000-1030	Characterization of Airborne Microbial Communities	Birgit Sattler (Univ. Innsbruck, A)	Sonnblick 2
1030-1100	<i>Coffee Break</i>		
1100-1300	Theme 3: Aerosol and cloud research (chair HFSJG)	Erwin Flückiger	HFSJG
1100-1130	Aerosol at Jungfrauoch: Physical, chemical and optical properties	Urs Baltensperger (PSI, CH)	HFSJG 4
1130-1200	Aerosol-cloud interaction in warm clouds	Nicolas Bukowiecki (PSI, CH)	HFSJG 5
1200-1230	CLACE/INUIT (Cloud and Aerosol Characterization Experiment/Ice Nuclei research unIT) at Jungfrauoch 2013	Johannes Schneider (MPI f. Chem., Mainz, D)	HFSJG 6
1230-1300	Aerosol measurements at Sonnblick	Dietmar Wagenbach (Univ. Heidelberg, D)	Sonnblick 3
1300-1415	<i>Lunch</i>		
1415-1645	Theme 4: Column integrated measurements as link between in-situ and satellite data (chair UFS)	Michael Bittner	UFS
1415-1445	Recent results from the long-term FTIR monitoring activities at Jungfrauoch: some unexpected trends and new target species	Emmanuel Mahieu (Univ. Liège, B)	HFSJG 7
1445-1515	What can we learn from airglow observations? (20 min)	Michael Bittner, Sabine Wüst, Carsten Schmidt, (DLR, Oberpfaffenhofen, D)	UFS 4
1515-1545	Variability and trends of water vapor and methane above the Zugspitze (20 min)	Ralf Sussmann (Karlsruhe Institute of Technology, D)	UFS 5
1545-1615	<i>Coffee Break</i>		
1615-1645	Assessment of Extreme Events in Alpine Climate Data by Extreme Value Test	Annette Menzel (Technical University Munich, D)	UFS 6
1645-1715	CO ₂ comparison between column integrated and in-situ measurements	Michael Schibig (Univ. Bern, CH)	HFSJG 8
1715-1745	Closing Remarks	Martin C.E. Huber	JFJ Com.

Internet access:

Internet access is possible with the WLAN ESSID 'eduroam' for participants of institutions that are a member of Eduroam. The others may get a personal WiFi card from Rolf Bütikofer, HFSJG, to get internet access.

HFSJG contact number during office hours:

+41 (0)31 631 40 52 (secretary)