



SPARC WORKSHOP SHARP2016

Stratospheric Change and its Role for Climate Prediction

Berlin / Germany, 16 - 19 February 2016



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WELCOME

Welcome to SHARP2016, welcome to Berlin!

On behalf of the Scientific and Local Organizing Committees it is our pleasure to welcome you to the SPARC Workshop **SHARP2016**!

The stratosphere is changing, as documented unambiguously in continuous observations of its composition, temperature and circulation. Since the detection of stratospheric ozone loss in the 1980s and an ongoing cooling of the stratosphere, understanding of the stratospheric response to anthropogenic emissions and climate change and its links to tropospheric weather and climate have become key issues of atmospheric research. This is reflected in the scientific themes of the World Climate Research Programme (WCRP) core project *Stratosphere-Troposphere Processes and their Role in Climate* (SPARC), and also in national activities, such as the German research programme *Stratospheric Change and its Role for Climate Prediction* (SHARP).

It is the goal of **SHARP2016** to contribute to an improved knowledge in the above research areas. Four aspects will be in the focus of interest: dynamical changes associated with the Brewer-Dobson circulation, the evolution of stratospheric ozone and its feedback with climate change, stratospheric water vapour changes, and the relevance of stratosphere-troposphere coupling for climate and weather.

We wish you exciting and inspiring days at the workshop, and an enjoyable stay in Berlin. Have a good time and take care!

We are looking forward to seeing you at SHARP2016!

Ulrike Langematz John P. Burrows Martin Dameris Gabriele Stiller

ABOUT SHARP

STRATOSPHERIC CHANGE AND ITS ROLE FOR CLIMATE PREDICTION

The SPARC Workshop **SHARP2016** addresses the current status and future directions in the research area *Stratospheric Change and its Role for Climate Prediction* (SHARP).

SHARP2016 is initiated by the German research unit SHARP, which has been funded by the German Research Foundation between 2009 and 2015. Research in SHARP has been inspired and focused on the scientific themes of the World Climate Research Programme (WCRP) core project *Stratosphere-Troposphere Processes and their Role in Climate* (SPARC). Four specific research topics were selected by SHARP:

- Brewer-Dobson Circulation
- Stratospheric Ozone
- Stratosphere-Troposphere Coupling
- Stratospheric Water Vapour.

As the closing event of the SHARP programme, **SHARP2016** aims at fostering contacts and exchange between the international scientific community and the SHARP scientists. The goal is:

- to discuss the current research in the four SHARP topics,
- to present the progress achieved in SHARP in a broader international perspective, and
- to address open issues, needs and potential future research.

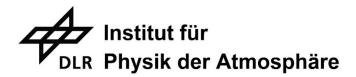
SPONSORS

OUR SPONSORS

We would like to acknowledge the following organisations for their support of the SPARC workshop **SHARP2016**:













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CONFERENCE CONVENORS

Ulrike Langematz (Freie Universität Berlin, chair)

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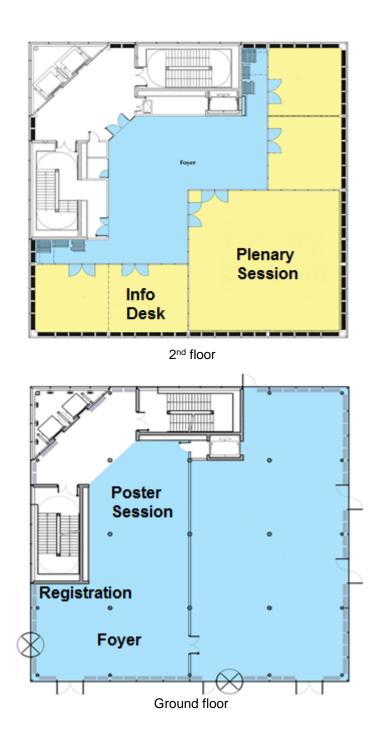
VENUE LAYOUT

SEMINARIS Campus Conference Center and Hotel Berlin

Takustraße 39

14195 Berlin

Tel.: +49 (0)30 557797-0



PROGRAMME OVERVIEW

Thursday Friday 18.02.2016			Ozone I Water Vapour I		Coffee Coffee		Ozone II Water Vapour II			Lunch	Poster Presentations	Session Summaries	Ozone III and Syntheses		End of Workshop	Porter Sersion	rostel pession			Ontaranca Uningrat		Berliner Fernsehturm
Wednesday 17.02.2016		Stratosphere-	Troposphere Coupling		Coffee	Stratosphere-	Troposphere Coupling			Lunch	Poster Presentations	Stratosphere-	Troposphere Coupling		Coffee	Stratosphere-	Troposphere Coupling	//		ه د		Poster
Tuesday 16.02.2016		Registration		Opening Session				Circulation		Lunch	Poster Presentations	0	Srewer-Dobson Circulation II	CII culation II	Coffee	Brown Dobos		CITCUIALION III				cebreaker
Monday 15.02.2016																			Registration			
	08:00	08:30	00:60	10:00	10:30	11:00	11:30	12:00	12:30	13:30	14:00	14:30	15:00	15:30	16:00	16:30	17:00	17:30	18:00	18:30	10.00	19:00

TUESDAY 16TH FEBRUARY

08:00 - 09:30	Registration
	Opening Session
09:30 - 09:35	Ulrike Langematz
09.30 - 09.33	Workshop Opening
09:35 - 09:40	Ulrich Cubasch
00.00 00.10	Welcome address
09:40 - 09:55	Peter Braesicke
	The stratosphere: Learning from Karin Labitzke
00.55 40.40	Opening lecture
09:55 – 10:40	Neil Harris
	The evolving science in WCRP/SPARC
10:40 - 11:00	Ulrike Langematz
	A SHARP story & Logistics Brewer-Dobson Circulation I
	Chair: Martin Dameris
	Keynote lecture
11:00 – 11:30	Thomas Birner
11100 11100	Branching out: Brewer's versus Dobson's circulation
	Lisa Neef
11:30 - 11:45	Does data assimilation destroy or enhance the Tropopause
	Inversion Layer?
	Alison Ming
11:45 – 12:00	The link between the structure of the heating and upwelling in the
	tropical lower stratosphere
	Paul Konopka Regionally resolved impact of ENSO on the variability of the
12:00 – 12:15	Brewer-Dobson circulation and of water vapor entering the
	tropical lower stratosphere
	Axel Gabriel
12:15 – 12:30	Long-term changes in the three-dimensional Brewer-Dobson
	circulation
40.00 40.45	Naftali Cohen
12:30 – 12:45	Characterizing structural changes of the stratospheric residual circulation in future climates
	Peter Hitchcock
12:45 - 13:00	Projected changes in radiative damping rates and radiative
	equilibrium temperature over the twenty first century
13:00 – 14:00	Lunch

44.00 44.20	Poster Presentations
14:00 – 14:30	Chair: Harald Bönisch
	Brewer-Dobson Circulation II
	Chair: Harald Bönisch
	Sophie Oberländer-Hayn
14:30 - 14:45	The effects of resolved and parameterized waves on the Brewer-
	Dobson circulation
	Hella Garny (invited)
14:45 – 15:00	Changes in the advective and mixing component of the Brewer-
	Dobson circulation in global models
15:00 – 15:15	Andreas Engel
	AIRCORE as a new tool to study stratospheric age of air
45.45.45.00	Chaim Garfinkel
15:15 – 15:30	Is there a mismatch between observed and modelled age of air
	trends?
15:30 – 15:45	Felix Ploeger Characteristics of transport in the lower stratesphere informed from
15.30 - 15.45	Characteristics of transport in the lower stratosphere inferred from the age of air spectrum
	Marianna Linz
15:45 – 16:00	Quantitative assessment of the variability of the diabatic
10.10	circulation of the stratosphere from age of air data
16:00 – 16:30	Coffee Break
	Brewer-Dobson Circulation III
	Chair: Thomas Birner
	Prabir Patra
16:30 - 16:45	Brewer-Dobson circulation, age of air in stratosphere and
	distribution of trace gases
	Thomas von Clarmann
16:45 – 17:00	Direct Inversion of Circulation and Mixing from Tracer
	Measurements
47.00 47.45	Mohamadou Diallo
17:00 – 17:15	Stratospheric circulation signal of the volcanoes for the 1989 to
	2010 period René Hommel
17:15 – 17:30	
	Aerosol microphysics in the stratosphere
17:30 – 17:45	Eric Ray Rotter Validating Stratosphoric Transport in Climate Models: The
	Better Validating Stratospheric Transport in Climate Models: The Case for Long-Term Profile Measurements of a Specific Suite of
	Trace Gases
	Ted Shepherd (invited)
17:45 – 18:00	The Climate Impact of Past Changes in Halocarbons and CO2 in
	the Tropical UTLS Region
18:00 - 20:00	Icebreaker

WEDNESDAY 17TH FEBRUARY

	Stratosphere-Troposphere Coupling I
	Chair: Ulrike Langematz
08:30 - 09:00	Keynote lecture
	Mark Baldwin
	Stratosphere–Troposphere Coupling
	Peter Hitchcock
09:00 – 09:15	Mechanisms for the Downward Influence of Stratospheric Sudden Warmings
	Dieter H.W. Peters
09:15 – 09:30	Links between boreal polar-night jet oscillations and geophysical fields
	Amanda Maycock
09:30 – 09:45	Do split and displacement sudden stratospheric warmings have different annular mode signatures?
	Kunihiko Kodera
10:45 – 10:00	Absorbing and reflecting sudden stratospheric warming events and their relationship with tropospheric circulation
	Martin Dameris
10:00 – 10:15	On the signature of the downward propagation of stratospheric extreme events to the troposphere
	Aditi Sheshadri
10:15 – 10:30	Stratospheric influences on the tropospheric jet: Impacts of stratospheric seasonal variability and ozone depletion
	Sabine Haase
10:30 – 10:45	The importance of interactive stratospheric chemistry on the tropospheric jet variability under climate change
10:45 - 11:15	Coffee Break
	Stratosphere-Troposphere Coupling II
	Chair: Blanca Ayarzagüena
11:15 – 11:30	Natalia Calvo (invited)
11:15 – 11:30	On the surface impact of Arctic ozone extremes
11:30 – 11:45	Diane Ivy
	Observed connections of Arctic ozone extremes to Northern Hemisphere Climate
	Irina Petropavlovskikh
11:45 – 12:00	Boulder ozone sonde data analyses for multiple tropopause origins

12:00 – 12:15	Fiona Tummon Diagnosing changes in European tropospheric ozone: A model study of past and future changes
	Stefanie Meul
12:15 – 12:30	Future changes in stratosphere-troposphere exchange of ozone and the contribution from climate change
12:30 – 12:45	Mohamadou Diallo Diagnostis of the Upper Troposphere-Stratosphere exchanges using CO ₂ tracer gas
12:45 – 13:00	Chaim Garfinkel Drivers of the recent tropical expansion in the Southern Hemisphere: Changing SSTs or ozone depletion?
13:00 - 14:00	Lunch
14:00 – 14:30	Poster Presentations Chair: Hauke Schmidt
	Stratosphere-Troposphere Coupling III Chair: Edwin Gerber
14:30 – 14:45	Blanca Ayarzagüena (<u>invited</u>) Response of sea surface temperature to climate change and its
14.30 - 14.45	influence on the wintertime polar vortex in CMIP5 and chemistry- climate models
	Nour-Eddine Omrani
14:45 – 15:00	Wintertime response of the coupled stratosphere/troposphere system to the large-scale Atlantic decadal variability
	Rongcai Ren
15:00 – 15:15	The competing effect of the tropical Indian Ocean SST forcing on the northern winter stratosphere during ENSO
	Fumiaki Ogawa
15:15 – 15:30	Importance of mid-latitude oceanic frontal zone and associated baroclinic eddies on the ozone-induced stratosphere/troposphere coupling
	Fabian Wunderlich
15:30 – 15:45	Influence of the Madden-Julian Oscillation on the boreal winter stratosphere
	Ulrike Langematz
15:45 – 16:00	Southern Hemisphere sea ice trends: How well do model simulations explain the observed changes?
16:00 – 16:30	Coffee Break
	Stratosphere-Troposphere Coupling IV Chair: Natalia Calvo

16:30 – 16:45	Edwin Gerber (<u>invited</u>) The tropical tropopause layer in an idealized moist model: Tropical vs. extratropical control
16:45 – 17:00	Robin Pilch Kedzierski The Tropical Tropopause Inversion Layer: Variability and Forcing by Equatorial Waves
17:00 – 17:15	Wuke Wang Decadal variability of tropical tropopause temperatures and its relation to the Pacific Decadal Oscillation
17:15 – 17:30	Vinay Kumar Impact of different phases of QBO over temperature in the tropopause region: Focus on the tropical dynamics
17:30 – 17:45	Catrin Gellhorn Radiative and dynamical temperature changes in the middle atmosphere in a future climate
17:45 – 18:00	Michael Ponater Ozone radiative feedback in global warming simulations with CO ₂ and non-CO ₂ forcing
18:00 – 20:00	Poster Session

THURSDAY 18TH FEBRUARY

	Ozone I
	Chair: Mark Weber
	Keynote lecture
08:30 – 09:00	Wolfgang Steinbrecht
	Observed and modelled long-term changes of the ozone layer
09:00 - 09:15	Sophie Godin-Beekmann (<u>invited</u>)
03.00 - 03.13	Recent ozone trends at Northern Mid-latitudes
	Melanie Coldewey-Egbers
09:15 – 09:30	The ESA-CCI total ozone climate data record 1995-2015:
	investigation of long-term trends and variability
09:30 - 09:45	Robert Damadeo
	An improved technique for deriving long-term trends in ozone
00-45 40-00	Pawan Bhartia (invited)
09:45 – 10:00	Trials and tribulations in creating long-term ozone record to detect
	anthropogenic change Stefan Bötel
10:00 – 10:15	Validation of the University of Bremen (IUP) GOME/SCIAMACHY long-term nadir ozone profile dataset and inter-comparison with
	the SBUV/2 long-term data record
	Daan Hubert
10:15 - 10:30	On the confidence in SI2N vertical ozone profile trend
	assessments
10:30 - 11:00	Coffee Break
	Ozone II
	Chair: Klaus Pfeilsticker
	Roeland Van Malderen
11:00 – 11:15	On instrumental errors and related correction strategies of
11.00 11.10	ozonesondes: possible effect on calculated ozone trends for the
	nearby sites Uccle and De Bilt
11:15 – 11:30	Johannes Staehelin
	The value of Swiss long-term ozone measurements for
	atmospheric research
	Philippe Keckhut
11:30 – 11:45	Have stratospheric temperature trends changed in the last
	decade?

Martyn Chipperfield (<u>invited</u>) Recent changes in stratospheric composition due to and despite the Montreal Protocol
Donal Murtagh (<u>invited</u>) Ozone and related species in the stratosphere
Mark Weber Stability requirements on long-term (satellite) ozone observations and their implication for trend detection
Toshihiko Hirooka Interannual changes of stratospheric ozone and their relationship to dynamical processes
John P. Burrows Recent studies of stratospheric ozone and related measurements using SCIAMACHY
Lunch
Poster Presentations Chair: Björn-Martin Sinnhuber
Ozone III Chair: John P. Burrows
Bodo Werner Probing the tropical tropopause layer for organic and inorganic bromine
Gaétane Ronsmans Spatial and temporal variability of stratospheric HNO3 and O3 from IASI global measurements
Stefanie Falk Modelling oceanic emissions of brominated very short-lived substances under a changing climate: Stratospheric bromine budget and the impact on ozone.
Peter Braesicke ENSO effects on stratospheric trace gases: How do we capture reality?
Martin Budde Change in Polar Stratospheric Ozone due to Dynamics, ODS and Climate Change
Markus Rex (<u>invited</u>) Ozone recovery and climate change: Towards an interactive representation of stratospheric ozone in Earth System Models
Coffee Break & Poster Session
Bus from SEMINARIS Hotel to Conference Dinner at "Berliner Fernsehturm"

FRIDAY 19TH FEBRUARY

	Water Vapour I
	<u>Chair</u> : Patrick Jöckel
	Keynote lecture
08:30 - 09:00	Stephan Fueglistaler
	Stratospheric water vapor - progress, regress and digress
	Holger Vömel (invited)
09:00 – 09:15	Water vapor in the tropical tropopause region and tropical stratosphere
	Dale Hurst
09:15 – 09:30	36 Years of Stratospheric Water Vapor Measurements over Boulder, Colorado: Lessons Learned for the Future
09:30 – 09:45	Karen Rosenlof (invited)
U9.3U — U9.40	The SPARC Water Vapour Assessment-II
	Stefan Lossow
09:45 – 10:00	Variability of stratospheric water vapour in observations and simulations
10:00 – 10:15	Gabriele Stiller
10.00 - 10.13	Is there a solar signal in lower stratospheric water vapour?
10:15 – 10:30	Katja Weigel SCIAMACHY limb water vapour results from SHARP
10:30 - 11:00	Coffee Break
	Water Vapour II
	Chair: Gabriele Stiller
11:00 – 11:15	Michaela Hegglin (invited)
11.00 - 11.15	Water vapour as indicator of stratospheric circulation changes
11:15 – 11:30	Patrick Jöckel
11.13 – 11.30	Impact of major volcanic eruptions on stratospheric water vapor
	Martin Riese (invited)
11:30 – 11:45	Dynamical processes and transport influencing the water vapour budget in the upper troposphere / lower stratosphere (UTLS)
	Markus Kunze
11:45 – 12:00	The influence of the Asian summer Monsoon, ENSO, and the QBO on the boreal summer UTLS temperatures, water vapour and ozone mixing ratios
	Roland Eichinger
12:00 – 12:15	Investigation of stratospheric HDO/H2O variations in EMAC model simulations

	Andrea Stenke
12:15 – 12:30	The role of methane in projections of stratospheric water vapor trends
12:30 – 12:45	Andrew Dessler
12.00	What drives water vapor trends in CCMs?
12:45 - 13:00	Group Photo
13:00 - 14:00	Lunch
	Closing Session
	Chair: Ulrike Langematz
14:00 – 14:25	Thomas Birner, Hella Garny, and Sophie Oberländer-Hayn
14.00 - 14.25	Summary and Synthesis of BDC Session
14:25 – 14:50	Edwin Gerber, Blanca Ayarzagüena, and Peter Hitchcock
14.25 - 14.50	Summary and Synthesis of STC Session
14.50 15.15	Sophie Godin-Beekmann, Stefanie Meul, and Martin Budde
14:50 – 15:15	Summary and Synthesis of Ozone Session
15:15 – 15:40	Martin Riese, Andrea Stenke, and Stefan Lossow
	Summary and Synthesis of Water Vapour Session
15.45 16.00	Ulrike Langematz
15:45 – 16:00	Closing of workshop

POSTER SCHEDULE

POSTER SESSION I

Wednesday 17th February, 18 - 20 pm

Brewer-Dobson Circulation

FIRST AUTHOR (PRESENTER)	ABSTRACT TITLE
Bunzel, Felix	The Brewer-Dobson Circulation in a changing climate: Trend versus natural variability
Dietmüller, Simone	Effects of residual transport and mixing on the simulation of stratospheric Age of Air
Eichinger, Roland	A regional modelling perspective on the significance of gravity wave activity in a changing climate
Galytska, Evgenia	Reinvestigation of the stratospheric age of air in the Bremen CTM
Gassmann, Almut	Diagnosing the residual circulation: residual winds, mean deviations of balanced winds, and mean winds perpendicular to iso-tracer surfaces
Haenel, Florian	Reassessment of MIPAS age of air trends and variability
Harris, Neil	The SPARC Implementation Plan: 2016-2020
Ostermöller, Jennifer	The application of fractional release factors in stratospheric chemistry and dynamics
Reddmann, Thomas	The representation of the upper branch of the BDC in a 3D-CTM and its impact on mean age simulations
Šácha, Petr	Influence of spatial distribution of the gravity wave activity on the middle atmospheric circulation and transport.
Shibata, Kiyotaka	Long-term variations of the equatorial quasi-biennial oscillation in ERA-40 and ERA-Interim data

POSTER SCHEDULE

Stratosphere-Troposphere Coupling

FIRST AUTHOR (PRESENTER)	ABSTRACT TITLE	
Scheffler, Janice (Ayarzagüena, Blanca)	Elevated Stratopause Events in the current and a future climate: A Chemistry-Climate Model study	
Chavez Perez, Victor Manuel (Diallo, Mohamadou)	Differences in the detection and classification of the Stratospheric Sudden Warming over the three reanalyses for the period 1979- 2014	
Chavez Perez, Victor Manuel (Diallo, Mohamadou)	Changes in the stratosphere before and after Stratospheric Sudden Warming events in the different phases of the equatorial QBO	
Dhaka, Surendra	Impact of sudden stratospheric warming (SSW) over tropical region: A study using COSMIC/ FORMOSAT-3 observations	
Domeisen, Daniela	Using teleconnections to predict the weather in Europe – theory and application	
Karami, Khalil	Triggering of the tropospheric baroclinicity by the persistent stratospheric wind regimes	
Kozubek, Michal	Long-term trend in the stratosphere	
Pültz, Joscha	Impact of climate change on stratosphere-troposphere coupling – a study with the chemistry-climate model EMAC	
Rao, Jian	Asymmetry and nonlinearity of ENSO's influence on the northern winter stratosphere	
Rea, Gloria	Atmospheric long-term changes in the Southern Hemisphere simulated by CMIP5 models	
Schneidereit, Andrea	The pre-phase of major sudden stratospheric warmings (MSSW) and the cold phase of ENSO: mean perspective and case study of 2009	

POSTER SCHEDULE

Water Vapour

FIRST AUTHOR (PRESENTER)	ABSTRACT TITLE
Brinkop, Sabine	The millennium water vapour drop in the stratosphere in chemistry- climate model simulations
Brühl, Christoph	Stratospheric water vapour simulated by EMAC including volcanic aerosol

POSTER SESSION II

Thursday 18th February, 16:00 – 17:30 pm

<u>Ozone</u>

FIRST AUTHOR (PRESENTER)	ABSTRACT TITLE	
Kirner, Ole	Chemistry–climate interactions of stratospheric and mesospheric ozone in EMAC long-term simulations with different boundary conditions for CO ₂ , CH ₄ , N ₂ O, and ODS	
Kreyling, Daniel	Fast stratospheric ozone chemistry for global climate models: The extra-polar SWIFT module	
Wohltmann, Ingo (Kreyling, Daniel)	Fast stratospheric ozone chemistry for climate models: The polar SWIFT model	
Sofieva, Viktoria (Laeng, Alexandra)	On small-scale variability of ozone in the stratosphere	
Laeng, Alexandra	Large-scale variability of ozone in the stratosphere	
Lubis, Sandro	How does downward planetary wave coupling affect polar stratospheric ozone in the Arctic winter stratosphere?	
Maillard Barras, Eliane	Annual and seasonal variations of the diurnal cycle of stratospheric ozone measured by microwave radiometer	
Maycock, Amanda	The radiative heating response to climate change	
Meul, Stefanie	Effect of future increase in nitrous oxide on stratospheric ozone	
Gorshelev, Victor (Weber, Mark)	Improved ozone absorption cross-sections in the Hartley-Huggins bands	
Stergios Misios	Influences of different solar irradiance spectra on the simulated mean state of the stratosphere	

If you require further assistance, please visit the information desk and we will do our very best to help you.

ABSTRACTS

We are not providing a printed version of the abstracts. All abstracts are on the USB drive in your registration pack, ordered by session and surname of the first author.

CATERING

All morning and afternoon coffees, the icebreaker and conference dinner are included in the registration fee. The morning and afternoon coffees will be served on the 2nd floor.

An icebreaker reception will be held on Tuesday (16th February) evening in the foyer at the SEMINARIS Conference Center Berlin between 18:00 and 20:00.

CONFERENCE DINNER

A conference dinner will be held on Thursday (18th February). A bus will pick us up in front of the Seminaris Conference Center (main hotel entrance Takustraße) at 17:30 (5:30 PM) and take us on a short sightseeing tour through Berlin. We will stop at the highest building in Berlin, the "Berliner Fernsehturm" (Berlin TV tower), where we will have the conference dinner in the restaurant "Sphere" in 207 meter height.

EMERGENCY INFORMATION

Police	110
Ambulance, Fire	112

In the unlikely case of an emergency, please leave the building by the closest marked exit and follow the instructions of the hotel staff.

GRANT RECIPIENTS

All recipients of travel support are kindly asked to register at the on-site registration desk and then visit the workshop office to proceed with their grant administration.

INFORMATION DESK

The information desk will be located on the same floor as the main lecture hall, and will be open during the following hours:

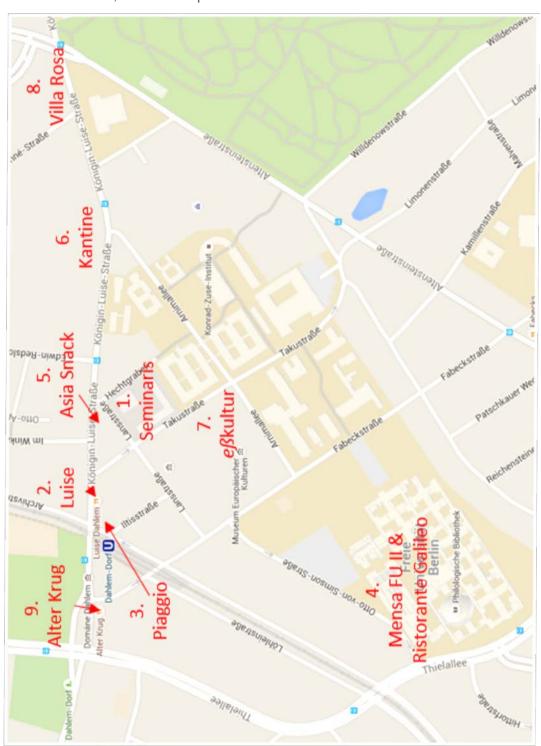
Monday	17:00 - 19:00
Tuesday - Wednesday	08:00 - 20:00
Thursday - Friday	08:00 - 17:00

INTERNET

The WIFI key is provided with your badge.

LUNCH

Lunch is offered in the SEMINARIS Campus Hotel (<u>not</u> included in the registration fee). Other restaurants, bistros and pubs in the area are:



- SEMINARIS CampusHotel, Takustraße 39, 14195 Berlin http://www.seminaris.de/fileadmin/sehoko/download/scb/pdf/Seminaris_Berlin_S peisenkarte_0615.pdf
- 2. Luise Dahlem, Königin-Luise-Straße 40-42, 14195 Berlin http://www.luise-dahlem.de/index.php/essen-trinken
- 3. Restaurant Piaggio, Königin-Luise-Straße 44, 14195 Berlin http://www.ristorante-piaggio.de/
- 4. Mensa FU II, Otto-von-Simson-Straße 26, 14195 Berlin http://www.studentenwerk-berlin.de/mensen/speiseplan/fu2/index.html
- Asia Snack Dahlem, Königin-Luise-Straße 38, 14195 Berlin http://www.asiasnack-dahlem.de/
- 6. Kantine im Julius Kühn-Institut, Königin-Luise-Straße 19, 14195 Berlin http://www.el-okle.de/Downloads/elokle.pdf
- 7. eßkultur in den Museen Dahlem, Lansstraße 8, 14195 Berlin (Kantine)
- 8. Restaurant Villa Rosa, Königin-Luise-Straße 11, 14195 Berlin http://www.villa-rosa-restaurant.de/joomla/index.php/2-uncategorised/4
- Alter Krug, Königin-Luise-Straße 52, 14195 Berlin http://alter-krug-berlin.de/

MOBILE PHONES

Out of respect to the speakers and other delegates, please ensure your mobile phone is on silent mode or switched off during all oral presentations.

POSTER PRESENTATION

Posters can be displayed on all conference days. Short oral introductions to the posters of max. 2 minutes are encouraged. The oral poster presentations will take place at the beginning of the afternoon sessions. In addition, the poster authors should be present at their posters during the poster sessions:

- Wednesday, 18:00-20:00: BDC, STC and water wapour
- Thursday, 16:00-17:30: Ozone

Posters are best printed in DIN A0 format (841 x 1189mm paper size), portrait orientation. Removable sticky tape and pins for the poster walls will be provided.

PUBLIC TRANSPORT

The SEMINARIS Conference Center and Hotel can be reached by subway or bus:

- subway: U3 (stop Dahlem-Dorf)
- bus: X83 (bus stop Museen Dahlem).

Tickets can be bought from the bus driver. Fare for a single ticket within Berlin sector AB: 2.70 € (short-trip ticket* 1,60 €).

For more information on public transport in Berlin (BVG) please visit the website below:

http://fahrinfo.bvg.de/Fahrinfo/bin/query.bin/dn?&ujm=1

English version of the website:

http://fahrinfo.bvg.de/Fahrinfo/bin/query.bin/en?

*short-trip ticket:

- up to 3 stations on the metro (U-Bahn) or urban rail (S-Bahn) transfers permitted or
- up to 6 stops on the bus or tram transfers not permitted.

SPEAKER PREPARATION

If you have an oral presentation and have not uploaded your slideshow presentation before the meeting, please do this at the frontdesk in the plenary room at least six hours before your scheduled talk. The technical assistant will be available to upload your presentation during breaks.

TAXI CALL

There are several taxi companies in Berlin. A few are listed below:

CABCALL	0800 / 2222255
Taxi-Berlin	030 / 202020
WürfelFunk	0800 / 210101