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Professor Dr. John Burrows (Bremen)
Professor Dr. Yasuko Kasai (Tokyo)
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Registration:

www.uni-greifswald.de/limb2019

The International Conference is funded by the Alfred Krupp von Bohlen und Halbach-Stiftung, Essen.
The Alfred Krupp Wissenschaftskolleg is an academically independent institution sponsored by the Stiftung Alfred Krupp Kolleg.

2.45 pm – 3.00 pm

Solving non-LTE problems in rotational transitions using the Gauss-Seidel method and its implementation in the Atmospheric Radiative Transfer Simulator

Takayoshi Yamada (Tokyo)

Validation Studies

3.00 pm – 3.15 pm

The Atmospheric Chemistry Experiment (ACE) Satellite: Recent Validation Results

Kaley A. Walker (Toronto)

3.15 pm – 3.30 pm

Intercomparison of Active Satellite Observations with SAGE III ISS

Kevin R. Leavor (Hampton)

3.30 pm – 3.45 pm

Validation of SAGE III-ISS V5.1 solar ozone data

H. J. Ray Wang (Atlanta)

3.45 pm – 4.00 pm

Validation of SCIAMACHY limb NO₂ scientific data V4.0, its changes in the stratosphere and their impact on O₃ chemistry in the tropical region

Evgenia Galytska (Bremen)

4.00 pm – 4.30 pm

Coffee Break

4.30 pm – 5.45 pm

Session 9: Agencies, programs and projects

Chair: Yasuko Kasai

4.30 pm – 4.45 pm

CSA Atmospheric Science Satellite Missions

Marcus Dejmek (Cambridge)

4.45 pm – 5.00 pm

The ESA Water Vapour Climate Change Initiative

Michaela I. Hegglin (Reading)

5.00 pm – 5.15 pm

Update of the SPARC Data Initiative for 2002–2018

Susann Tegtmeier (Kiel)

5.15 pm – 5.30 pm

A new Concept SLIPSTREAM/SCIA-L2

John Burrows (Bremen)

5.30 pm – 5.45 pm

Retrieval of stratospheric aerosol size properties from GOMOS: Current status

Christine Bingen (Bruxelles)

5.45 pm – 6.15 pm

Concluding discussions and remarks

Friday, 7 June 2019

9.00 am – 12.30 pm

Group discussions at the Institute for Physics

Felix-Hausdorff-Straße 6, 17489 Greifswald

Posters

Calibration System of Terahertz Explorer-1 instrument for Mars Atmospheric Observation

Yuki Uchiyama (Tokyo)

Signatures of the Madden-Julian Oscillation in Middle Atmosphere Temperature from Aura MLS

Christoph G. Hoffmann (Greifswald)

A comparison of lognormal and gamma size distributions for characterizing the stratospheric aerosol phase function from OPC measurements

Ernest Nyaku (Hampton)

Revisiting Stratospheric Aerosol Climatology for the post-SAGEII era using Space-based Measurements

Mahesh Kovilakam (Hampton)

Retrieval of particle size distribution parameters of stratospheric aerosol using solar occultation measurements of SAGE III on ISS.

Felix Wrana (Greifswald)

Aerosol Product Validation for the Stratospheric Aerosol and Gas Experiment III (SAGE-III) installed on the International Space Station (ISS)

Travis Knepp (Hampton)

Challenges in retrieving stratospheric aerosol extinction and particle size from RMR-LIDAR observations

Jacob Zalach (Greifswald)

The DFG Research Unit VollImpact: Revisiting the volcanic impact on atmosphere and climate

Christian von Savigny (Greifswald)

WFOAS total column ozone retrieval from OMPS/NPP in preparation for tropospheric ozone retrieval using the limb-nadir technique

Andrea Orfanoz-Cheuquelaf (Bremen)

Stratospheric Aerosol and Gas Experiment III on the International Space Station (SAGE III/ISS) Science Data Ozone Product: Preliminary Validation Results

Susan Kizer (Hampton)

An initial evaluation of ozone data quality from SAGE III/ISS v5.1

Rob Damadeo (Hampton)

Evaluation of the SAGE III/ISS Water Vapor Retrieval

David Huber (Hampton)

The Vertical Profile of HCl from Stratosphere to Lower Thermosphere Observed by SMILES

Seidai Nara (Tokyo)

High-resolution temperature profiles retrieved from bi-chromatic stellar scintillation measurements by GOMOS/Envisat

Viktoria Sofieva (Helsinki)

Odin/SMR long-term measurements of Carbon Monoxide in the Middle Atmosphere

Francesco Grieco (Gothenburg)

Solar heating rates derived from SCIAMACHY observations of the O₂(1Sigma) and O₂(1Delta) airglow

Miriam Sinnhuber (Karlsruhe)

Modeling of molecular and atomic oxygen photochemistry on the basis of multiple in situ and limb nightglow emissions

Olexandr Lednyts'kyy (Greifswald)

Alfried Krupp Wissenschaftskolleg Greifswald

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The initiative to establish the Alfred Krupp Wissenschaftskolleg came from the Chairman of the Board of Trustees of the Alfred Krupp von Bohlen und Halbach-Stiftung, Professor Dr. h. c. mult. Berthold Beitz. Professor Beitz associated this initiative with the idea that an institute for advanced study in the Hanseatic and university city of Greifswald could assist Greifswald to become once again the „liberal, cosmopolitan centre for encounters in the Baltic Sea region“ that it used to be for centuries. The Alfred Krupp Wissenschaftskolleg is committed to this goal.

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10th International Limb Workshop

International Conference
4 – 7 June 2019

