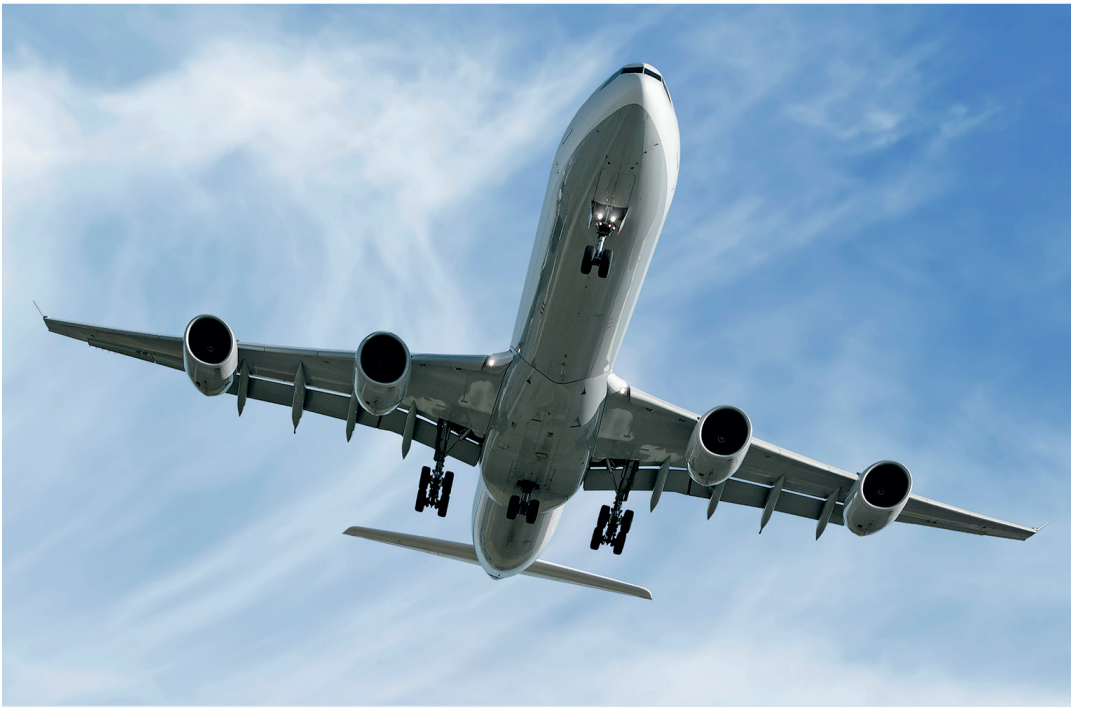
SEIBERSDORF LABORATORIES

SEPRAD - Workshop

September 18th - 19th, 2017



PROGRAM

www.seprad.eu

SEIBERSDORF LABORATORIES

HFSJG High Altitude Research Stations Jungfraujoch & Gornergrat

FFG Austrian Research Promotion Agency

bmvit

swiss space center

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER
State Secretariat for Education, Research and Innovation SERI

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SEPRAD - Workshop

Forecasting of Solar Energetic Particle Radiation Effects

Seibersdorf Laboratories and the International Foundation High Altitude Research Stations Jungfraujoch and Gornergrat are organizing a new workshop on radiation effects on aviation due to Solar Energetic Particle (SEP) events focusing on:

- Nowcast of radiation effects on aviation
- Forecast of SEP effects
- Innovative developments and future needs

The workshop addresses **scientists, researchers, governmental and non-governmental agencies, airliners, aviation service providers, weather forecast experts and students** interested in space radiation and its effects on aviation. Invited international experts will present the state of the art of this field. We aim at common discussions to reveal deficiency of knowledge, missing measured data and limitations of models in order to improve nowcast of radiation effects due to SEP and progress towards their forecast in future.

VENUE and DATE

Seibersdorf Laboratories at the Campus Seibersdorf, 30 km close to Vienna

Monday, September 18th, 2017	13:00 - 18:00 h
Tuesday, September 19th, 2017	09:00 - 14:00 h

ORGANIZER

Seibersdorf Laboratories (SL) in close collaboration with the International Foundation High Altitude Research Stations Jungfraujoch and Gornergrat (HFSJG) and supported by the Austrian Research Promotion Agency (FFG), the Swiss Space Center and the State Secretariat for Education, Research and Innovation (SERI).

REGISTRATION

Online registration is activated at: **www.seprad.eu**

Please note: There is a limited number of participants!
Registrations will be made on a first-come, first-served basis.
Deadline for registration: September 9th, 2017

PROGRAM

1st Day: Monday, September 18th, 2017

13:00 Registration

14:00 **Welcome Notes by Seibersdorf Laboratories**
M. Schwaiger, Seibersdorf Labor GmbH, Austria

Welcome Notes by Austrian Aeronautics and Space Agency, and Swiss Space Office
A. Geisler, Head of Austrian Aeronautics and Space Agency, Austria, and on behalf of Swiss Space Office, Switzerland

Introduction and Scope of the Workshop
P. Beck, Seibersdorf Labor GmbH, Austria

14:45 **Keynote**
Space Weather Effects at Aviation Altitudes
E. Flückiger, University of Bern, Switzerland

15:30 Coffee Break

16:00 **Session 1: Nowcast of Radiation Effects for Aviation**

Nowcast of Radiation Exposure at Aviation Altitudes with AVIDOS
M. Latocha, Seibersdorf Labor GmbH, Austria

Linking Solar Eruptions to Space Radiation Storms: Solar Energetic Particle Events and Flares foretold
A. Papaioannou, National Observatory of Athens, Greece

17:30 Workshop Discussion

18:00 Closing

20:00 **Social Event - Dinner**
Zwölf Apostelkeller
Location: Sonnenfelsgasse 3, 1010 Wien

2nd Day: Tuesday, September 19th, 2017

08:30 Registration

09:00 **Session 2: Forecast of Solar Energetic Particle Effects**

Prediction of the Occurrence and Intensity of SEP Events with Energies >100 MeV and >500 MeV Using the UMASEP Scheme
M. Núñez, University of Málaga, Spain

Progress and Challenges Toward a Future Integrated Space Weather Forecasting System
M. Georgoulis, Academy of Athens, Greece

10:30 Coffee Break

11:00 **Session 3: Innovative Developments and Future Needs**

Radio Observations and Innovative Developments and Future Needs on SEP Forecasting
L. Klein, Paris Observatory, France

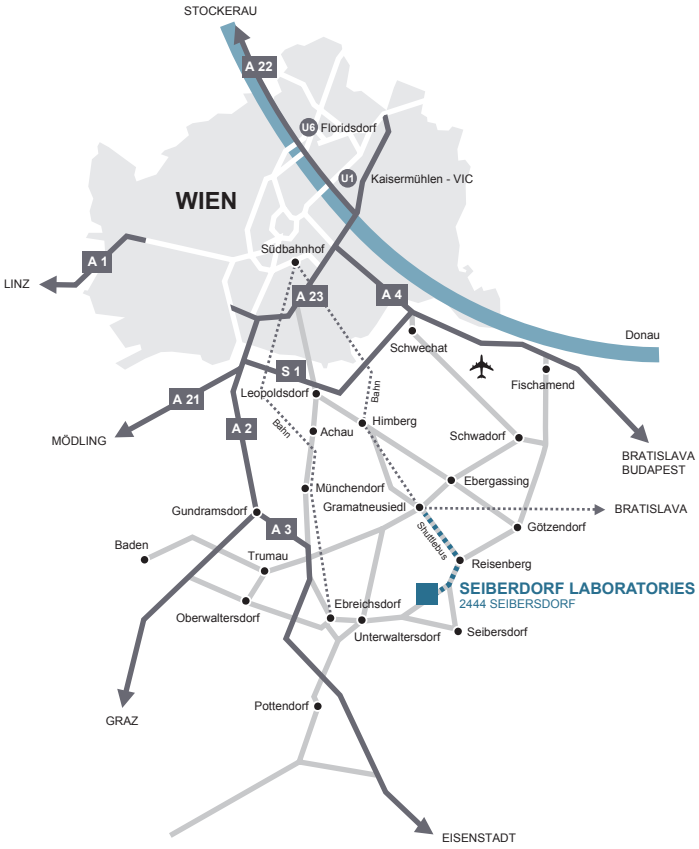
Forecast Capabilities for SEP Events and Future Mitigation Strategies
V. Bothmer, University of Göttingen, Germany

Future Needs in Understanding and Forecasting Extreme Solar Energetic Particle Events
B. Heber, University of Kiel, Germany

13:15 Workshop Discussion

13:30 Lunch Buffet

14:00 Closing



HOW TO REACH US

SEIBERSDORF LABOR GMBH is located near the village of Seibersdorf, about 30 km south of Vienna; it takes about 40 minutes by car from Vienna's city centre.

CONTACT

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