FESSTVal Summer School 2021

'Observing and understanding submesoscale atmospheric dynamics'

Call for Applications

(Weekly Sessions from 17 May to 25 July 2021)

Registration extended until 15.02.2021

General information

The *Field Experiment on sub-mesoscale spatio-temporal variability in Lindenberg* (FESSTVaL) is a measurement campaign initiated by the Hans-Ertel-Center for Weather Research. It takes place at the Meteorological Observatory Lindenberg – Richard-Aßmann-Observatorium (MOL-RAO) of the German Meteorological Service (DWD) near Berlin from May to August 2021 (postponed from 2020). The summer school *Observing and understanding submesoscale atmospheric dynamics* is taking place in parallel to the campaign (also postponed from 2020). To be compatible with potential measures to contain the pandemic, we plan a sequential format for the summer school to reduce contacs, see below.

FESSTVaL scientists from 7 different institutions in Germany and international partners offer a lecture series and project work related to the topic of the measurement campaign. The working environment is dynamic and expert knowledge is brought together.
For further information on the campaign, please visit **www.fesstval.de**

1 Proposed Format (concept under development)

In the period from mid May to the end of July 2021, we host one group of max. 4 students per week (8 groups in total) at the MOL-RAO near Berlin. During this one week, the group works on one of a set of scientific projects suggested by the organising team. Project results are presented within the frame of the *FESSTVaL Virtual Summer Seminar* every Friday afternoon. The project supervisor is on site to assist the group. Additionally, a dedicated lecture will be given every Monday within the frame of the *FESSTVaL Lecture Series*. Both, the *FESSTVaL Lecture Series* and *FESSTVaL Virtual Summer Seminar* will be live broadcasted online and recorded for the use of participants not being on site.

FESSTVaL Virtual Summer Seminars take place on 8 to 10 consecutive dates, once a week. Participants are asked to give a preference for two of the projects proposed from the organisers. We try to fulfill your preference when organising the school.

2 Subject/Curriculum

The seminars, group projects and lectures during FESSTVaL Summer School are offered by national and international experts. The program will provide participants with insights on observing and understanding sub-mesoscale atmospheric dynamics, such as convective scale observations from different platforms, sub-mesoscale dynamics and modeling. Lecturers include

- Irina Sandu, ECMWF
- Felix Ament, University of Hamburg
- Frank Beyrich, German Meteorological Service DWD
- Susanne Crewell, University Köln
- Cathy Hohenegger, Max-Planck-Institute for Meteorology
- Daniel Klocke, German Meteorological Service DWD
- Henning Rust, Freie Universität Berlin
- Linda Schlemmer, German Meteorological Service DWD

Topics include

- An introduction to the coupled land atmospheric boundary layer system, lecture
- Confronting models with observations – model evaluation, lecture
- Quantifying and comparing the variability observed by the station networks, hands on data
- Analysis of ABL sub-mesoscale scale variability by means of additional, time-synchronous radiosonde ascents and remote sensing profiles distributed around the FESSTVaL domain, group work

3 Where and When

The Summer School takes place from 17 May to 25 July 2021 near Berlin at the MOL-RAO (Lindenberg, Mark). Each week consists of one day of lecture, three days of project work and one day of presentation. We recommend arrival on Sunday and departure on Saturday. Accommodation will be in single rooms at "Gasthof Simke", Rietz-Neuendorf (`http://www.gasthof-simke.de`), a 20 minutes walk from the observatory.

4 Requirements of Applicants/Admission

The summer school aims at MSc and PhD students, as well as Postdocs in meteorology, physics and related research areas from anywhere in the world. Fluency in English is mandatory.

5 Course Fee, Accommodation and Grants

The summers school is free of charge. Participants have to pay for their travel, accommodation (≈60€/night including breakfast) and food.

A limited number of partial grants are available to support the attendance of selected participants, with priority given to participants from developing countries. For funding opportunities please contact `mailto://fesstval-summerschool@met.fu-berlin.de`

6 Applications

Applications can be submitted until Januar 31st, 2021. Applicants must provide

- ☐ filled out application form named `FirstName_LastName_application.pdf` (to be downloaded from `https://www.fesstval.de/summerschool/application`)
- ☐ a letter of motivation (max. 3000 characters), in which the applicant presents the reasons of interests and the potential connection to their current research

plus an additional pdf named `FirstName_LastName_documents.pdf` containing the following documents

- ☐ CV (max. 2 pages)
- ☐ certificate of study (if applicable)
- ☐ a brief statement of recommendation by a supervisor

The two separate pdf files are to be send via email to
`mailto://fesstval-summerschool@met.fu-berlin.de`
before Januar 31st, 2021. We will send an acknowledgment of receipt within one week. Otherwise, please contact us.

For more information, please visit our website `https://www.fesstval.de` or contact us directly via `https://fesstval-summerschool@met.fu-berlin.de`