

About SPP1788:

Variations in Earth's interior, atmosphere, oceans, and near-Earth space manifest in global fields such as in Earth's magnetic and gravity fields. An interdisciplinary approach is thus most effective to best exploit new observations and advanced modelling capabilities. The Priority Programme 1788 "Dynamic Earth" funded by the German Research Foundation (DFG) between 2015-2022 has established an international research framework for gravity, geomagnetism, and space and atmospheric sciences to tackle their intra-disciplinary questions. Projects have exploited data from dedicated satellites in low Earth orbit, such as Swarm, GRACE/-FO, among others, and have addressed studies based on ground-based observations and simulations that concerns one or more of these research areas and their connections.

The Final Colloquium will review the research conducted, results obtained and new science questions emerged during the last 7 years within the program.

Contacts:

Claudia Stolle, Speaker (cstolle@iap-kborn.de)

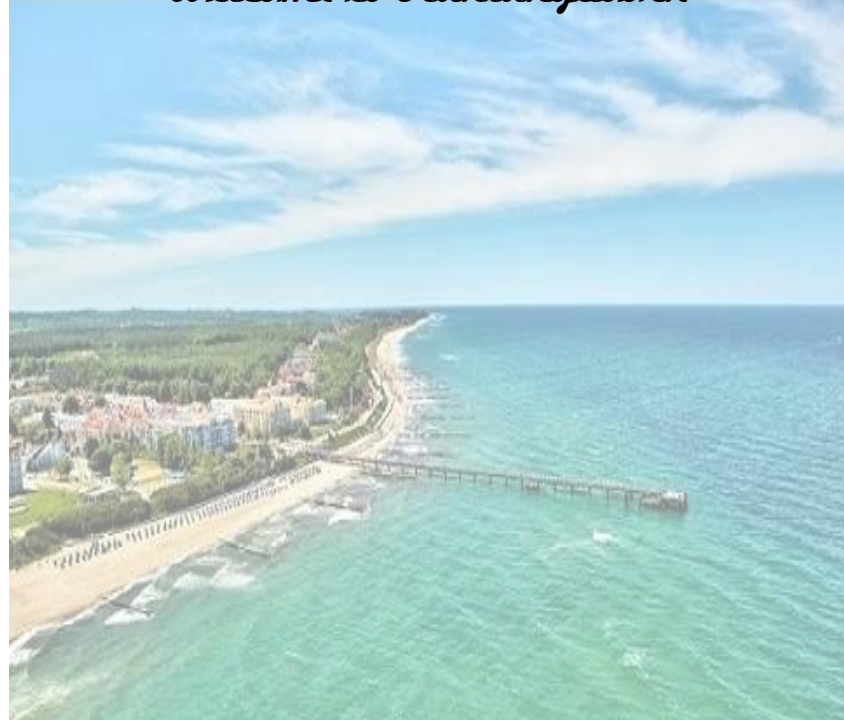
Afsheen Shahid, Coordinator (shahid@iap-kborn.de)

SPP1788-"Dynamic Earth", Final Colloquium

Location: IAP, Kühlungsborn
Date: 31st May – 2nd June 2022



Welcome to Kühlungsborn



AGENDA

Day 1

31st May 2022

- 11:00: Bus departure from Kühlungsborn Hotels
- 11:00 – 12:15: Arrival – Registration – Lunch buffet
- 12:30: Afsheen Shahid “Welcome + organization of meeting” & Claudia Stolle “Results and perspectives of SPP activities”
- 13:15: Iris Sonntag, “DFG Funding Schemes”
- 14:00: Coffee & Cakes, Splinter Meeting
- **Session 1 – Chair: Leonie Pick**
- 14:45: **Nicola Gillet, “Geomagnetic observations reveal hydro-magnetic waves in Earth’s core” (Keynote)**
- 15:30: Julien Baerenzung, “Stochastic and physical modeling of the Earth’s magnetic field”
- 16:00: Carina Häger, “A comprehensive model of the Antarctic lithosphere based on geophysical data integration”
- 16:30: Coffee Break
- 17:00: **Anja Strømme, “Swarm - Status after almost 9 years in orbit and the way forward” (Keynote)**
- 17:45: Ice Breaker (Opening speech by Hermann Lühr)
- 19:00: Departure to Kühlungsborn Hotels

AGENDA

Day 2

1st June 2022

- 08:30: Bus departure from Kühlungsborn Hotels
- **Session 2 – Chair: Armin Corbin**
- 09:00: **Astrid Maute, “Vertical coupling in the atmosphere-ionosphere system: progress and questions” (Keynote)**
- 09:45: Fede Conte, “Six years of mesosphere and lower thermosphere studies using meteor radar configurations”
- 10:05: Isabell Fernandez-Gomez, “Effects of Swarm neutral mass density assimilation in the ionospheric state estimate during St. Patrick’s Day storm 2015”
- 10:25 – 10:55: Poster Picos (Chair: Elena Kronberg)
- 10:55: Poster session 1 + Coffee and Splinter Meetings
- 12:30: Lunch
- **Session 3 – Chair: Sabrina Sanchez**
- 14:00: **Jesper Gjerloev, “The Earth-Space electrical current circuit - why this fascinating, dynamic and structured system keeps its secrets” (Keynote)**
- 14:45: Juan Rodríguez-Zuluaga, “Satellite observations of electric and magnetic characteristics of equatorial plasma density irregularities”
- 15:05: Christina Strohmenger, “Can Swarm be used to derive large-scale mass change in the Earth System?”
- 15:25 – 15:55: Poster Picos (Chair: Harikrishnan C. Ashokan)
- 15:55: Poster session 2 + Coffee and Splinter meetings
- 17:00 – 21:00: Walk on the beach in Rerik / conference dinner at Tillmann Hahn’s Gasthaus in Kühlungsborn

AGENDA

Day 3

2nd June 2022

- 09:00: Bus departure from Kühlungsborn Hotels
- 09:30: Splinter meetings, IAP tour + Coffee
- 10:30 – 11:00: Poster Picos (Chair: Bernhard Fluche)
- 11:00: Poster session 3 + Coffee and Splinter Meetings
- 12:00: Wrap up, final presentation and discussions
- 12:30: Lunch
- 14:00: Departure, Splinter Meetings