

Geomagnetic Twin Satellites MSS-1: Progress and Future Plans

Final programme

10:30 Welcome

Mission overview and instrumentation

10:35 - 11:50 **Overview of MSS-1 and MSS-2:** Keke Zhang (MISTA, Macau)

10:50 - 11:05 **MSS-1 Satellite System Design(In-flight calibration and validation of the Macao Scientific Satellite magnetic data):** Shigeng Yuan (DFH, China) and Yi Jiang (MISTA, Macau)

11:05 - 11:20 **In-orbit testing/calibration of the scalar magnetometer:** Werner Magnes, (Austrian Academy of Sciences, Austria)

11:20 - 11:35 **In-orbit testing/calibration of the vector magnetometer and star cameras:** Peter Brauer (DTU, Denmark) and Troelz Denver (DTU, Denmark)

Initial Results of MSS-1

11:35 - 11:50 **A CHAOS-like model with an empirical space current system:** Kuan Li (MISTA, Macau)

11:50 - 12:05 **Mantle conductivity and tide induced signals:** Zhengyong Ren (Central South University, China)

12:05 - 12:20 **Ionospheric Irregularities and Scintillation at Equatorial and Low Latitudes:** Zhe Yang(Tongji University, China)

12:20 - 12:35 **Energetic electron dynamics in the radiation belt/SAA:** Qiugang Zong (Peking University, China)

12:35 - 12:50 **Reconstruction of 3-D Core Flow:** Yufeng Lin (Southern University of Science and Technology, China)

12:50 - 14:00 lunch

Wider context: Swarm and future missions

14:00 - 14:15 **Synergies between Swarm and MSS-1: programmatics** Anja Stromme (ESA)

14:15 - 14:30 **Synergies between Swarm and MSS-1: scientific opportunities**

Nils Olsen (DTU, Denmark)

14:30 - 14:45 **3-D global mantle conductivity models derived from satellite**

measurements of geomagnetic field variations Jakub Velimsky (Charles University, Czech Republic)

14:45 - 15:00 **Waves in the core from satellite data** : Nicolas Gillet (ISTerre, France)

15:00 - 15:15 **The core-mantle boundary magnetic field and opportunities with**

MSS-1: Chris Finlay (DTU, Denmark)

15:15 - 15:35 Discussion about MSS-2

Dinner and reception

4:00 - 5:00 Museum opens at the Royal Institution for dinner guests

5:00 - 6:30 Drinks reception at the Royal Institution with scientific discussions

6:30 - 8:30 Dinner