

Annual Report (2022-2023)

IUGG Union Commission on Planetary Sciences (UCPS)

Website: <http://202.127.29.4/geodesy/ucps>

1. INTRODUCTION

The IUGG Union Commission on Planetary Sciences (UCPS) aims to promote and coordinate scientific (physical, chemical, and mathematical) studies of planets in the solar system and around other stars. UCPS intends to advance planetary science through advocacy of solar system and extrasolar exploration, seeking insights on the origin, formation and evolution of planets and systems, including a search for habitable worlds beyond Earth. The UCPS together with other IUGG associations will share knowledge through scientific research and comparative studies between planetary objects and the Earth in the fields of atmosphere, surface and interior science. Additional information about UCPS can be found at <http://202.127.29.4/geodesy/ucps>.

Objectives:

- To advance and foster the study of scientific problems in the planetary sciences;
- To promote and coordinate international cooperation in planetary science, and promote planetary science activities in developing countries;
- To facilitate, on an international basis, discussion and publication of the results of the studies, research and work indicated above;
- To contribute to coordinating activities for future space missions.

Executive Committee

- Shuanggen Jin (IAG, China) (Chair)
- Nader Haghighipour (University of Hawaii, USA) (Vice-Chair)
- Paul Hartogh (MPI, Germany) (Vice-Chair)
- Scot Rafkin (IAMAS, USA) (Secretary/Treasurer)

2. ACTIVITIES

- Session: Science and Exploration of Mars and Venus at AOGS 20th Annual Meeting, 30 July - 4 August 2023, Singapore.

Conveners:

Prof Varun Sheel (Physical Research Laboratory, India)
Dr Takeshi Imamura (The University of Tokyo, Japan)
Prof Shuanggen Jin (Henan Polytechnic University, China)
Dr Yeon Joo Lee (Institute for Basic Science, Korea, South)

- Session: General Topics in Planetary Science at AOGS 20th Annual Meeting, 30 July - 4 August 2023, Singapore.

Conveners:

Dr Steven Vance (Jet Propulsion Laboratory, Caltech, USA)

Prof Shuanggen Jin (Henan Polytechnic University, China)

Dr Kyeong Ja Kim (Korea Inst. Geoscience & Mineral Resources, S. Korea)

- 10-20 July 2023, Shuanggen Jin attended International Union on Geodesy and Geophysics (IUGG) Executive Committee Meeting and IUGG Union Commission on Planetary Sciences (UCPS) Business Meeting, Berlin, Germany.



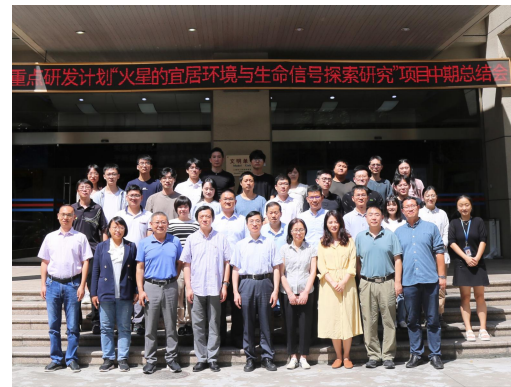
- 28-30 July 2023, IUGG Union Commission on Planetary Sciences (UCPS) co-organized the Second Industry-University-Research Conference on Spatial Information, Jiaozuo, China.



- 6-7 July 2023, Shuanggen Jin attended Expedition Ceremony and Applications Meeting of HNLG-1 Satellite as PI, Shanghai Institute of Aerospace Systems Engineering, Shanghai, China.



- 5-6 September 2023, IUGG Union Commission on Planetary Sciences (UCPS) organized Workshop on exploration of habitable environments and biosignatures on Mars, Shanghai, China.



- 20-22 November 2023, IUGG Union Commission on Planetary Sciences (UCPS) co-organized 1st International Symposium on Satellite Navigation (ISSN2023) - Advances, Opportunities and Challenges, Jiaozuo, China.



3. PLANNED FUTURE ACTIVITIES/ANNOUNCEMENTS

- 2nd IUGG Symposium on Planetary Science (IUGG-PS 2025): New Observations and Advances in Solar System, 2025.