

Annual Report (2020-2021)

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

- 18-21 November 2021, Shuanggen Jin was co-organized and attended International Symposium on Peaceful Use of Space Technology with giving a keynote, Beijing, China.



Photo of Prof. Shuanggen Jin's keynote at 4th International Symposium on the Peaceful Use of Space Technology Health (IPSPACE 2021), 18-21 November 2021, Beijing, China.

- 17-19 October 2021, Shuanggen Jin was invited to attend China Engineering Forum on Deep-Space Exploration Science and Technology and gave an invited talk, Shenzhen, China.



Photo of Academician Chi Wang's and Prof. Shuanggen Jin's talks at China Engineering Forum on Deep-Space Exploration Science and Technology, Shenzhen, China.

3. PLANNED FUTURE ACTIVITIES/ANNOUNCEMENTS

- 2nd IUGG Symposium on Planetary Science (IUGG-PS 2022): New Observations and Advances in Solar System, 20-23 July 2022, Changchun, China.
- Session: Science and Exploration of Mars and Venus at AOGS 19th Annual Meeting, 1-5 August 2022, Hawaii, USA.

Conveners:

Dr. Varun Sheel (Physical Research Laboratory, India)

Dr. Takeshi Imamura (The University of Tokyo, Japan)

Prof. Shuanggen Jin (Shanghai Astronomical Observatory, CAS, China)