



Dear colleague,

This is the first circular of the **Planetary Exploration, Horizon 2061 Synthesis Workshop** to be held on June 05-07, 2019 at the "Université Paul Sabatier" of Toulouse, France.

## SCOPE

"Planetary Exploration, Horizon 2061" is a long-term foresight exercise initially proposed by the Air and Space Academy and led by scientists, engineers and technology experts heavily involved in planetary sciences and in the space exploration of the Solar System. Its ultimate objective is to draw up to the 2061 horizon a long-term picture of the four pillars of planetary exploration:

1. our major scientific questions on planetary systems;
2. the different types of space missions that we need to fly to address these questions;
3. the key technologies we need to master to make these missions flyable;
4. the ground-based and space-based infrastructures needed in support to these missions.

The Horizon 2061 exercise is being developed in three steps, e.g. three meetings of international experts designed to progressively build the four pillars of planetary exploration.

A document summarizing the main inputs of the first and second steps will be available with the second circular. Participation to the Toulouse synthesis workshop is broadly open to all scientists and engineers, industry and space agencies, independently of their participation to the first two steps.

- First step: the joint ISSI-Europlanet forum (ISSI, Bern, September 13<sup>th</sup> to 15<sup>th</sup>, 2016) which led to formulate the six major scientific questions (pillar 1), to identify the key observations and where to perform these observations and initiated our exploration of the critical technologies needed.
- Second step: the community workshop "Technologies and Infrastructures for Planetary exploration" hosted by Ecole Polytechnique Fédérale de Lausanne (EPFL) from April 23<sup>rd</sup> to 25<sup>th</sup>, 2018, which laid the foundations of pillars 3 and 4 on the basis of a first inventory of the mission types.
- Third step: **Planetary Exploration, Horizon 2061 Synthesis Workshop** June 05<sup>th</sup> to 07<sup>th</sup>, 2019, Toulouse, France.

The information concerning Horizon 2061 is available on <http://horizon2061.cnrs.fr>

## The Workshop: organizers, time and place

The **third step**, devoted to the **synthesis of the exercise**, will be an **international workshop** hosted by Université Toulouse III- Paul Sabatier (Toulouse, France) from June 5<sup>th</sup> to 7<sup>th</sup>, 2019.

Its main organizers will be the Institut de Recherche en Astrophysique et Planétologie (IRAP) and the Observatoire Midi-Pyrénées (OMP). This workshop, placed under the sponsorship of COSPAR, will discuss and finalize the design of the four pillars and initiate the drafting of the final report, which will be edited and published under the auspices of COSPAR.



## Deadlines

Abstract submission and registration from January 14<sup>th</sup>, 2019

Abstract Submission deadline	April 15 <sup>th</sup> , 2019
Online program	May 15 <sup>th</sup> , 2019

Registration deadlines	
Early bird	April 15 <sup>th</sup> , 2019
Regular fees	May 20 <sup>th</sup> , 2019

## Contact

[h2061-tlse@sciencesconf.org](mailto:h2061-tlse@sciencesconf.org)