

## FOREWORD

The 8<sup>th</sup> International Workshop on "Planetary, Solar and Heliospheric Radio Emissions" is the continuation of an established tradition: The PRE VIII conference followed previous successful international workshops held at Graz, Austria, in 1984, 1987, 1991, 1996, 2001, 2005, and 2010. The 8<sup>th</sup> workshop in October 2016 was the first PRE meeting outside of Graz. The workshop was held in the historical castle "Schloss Seggau" about 35 km south of Graz, surrounded by gentle hills where the grapes for excellent wines are growing.

Besides the slight change in location, there is also a change in the organization of the workshop, in which a new main organizer has taken up the torch. As most of you know, Prof. Helmut Rucker was the main organizer of all previous PRE meetings in Graz. The Editors of PRE VIII are most grateful to Helmut for doing a fantastic job in organizing seven PRE meetings over almost three decades. The Editors are also grateful to our sponsors, namely the Austrian Ministry for Transport, Innovation and Technology, the Province of Styria, Europlanet, URSI, the Space Research Institute in Graz, and the Austrian Academy of Sciences.

The workshop offered the unique opportunity to discuss the new observations from Juno at Jupiter and Cassini at Saturn. Juno is orbiting Jupiter since mid-2016, and first results were presented at PRE VIII. Cassini's last year of mission is 2017, but the data analysis, like the investigation of the rotational phenomena in Saturn's magnetosphere for example, will continue for several years. Surprisingly, the highest number of contributions was with respect to Jovian radio emissions, where the ground-based support of space missions has become increasingly important, and where the statistical analysis of years of data have led to new conclusions concerning the influence of the Galilean moons. The large radio telescopes (LOFAR, UTR-2, GURT, LWA, NDA etc.) also have other important scientific targets besides Jupiter, namely the Sun and exoplanets, and for the latter one gets the impression that a first detection of radio emission signatures could happen in a not too distant future. Other scientific topics were terrestrial radio emissions and theory. The technical developments in instrumentation have led to the discovery of new fine structures in radio emissions or to improved solar radio imaging, and newly developed databases should make more and more data available to all scientists around the globe.

The high standard of the peer-reviewing process has been continued in the PRE "Silver Series" of the Austrian Academy of Sciences Press. The Editors thank all known and anonymous reviewers for their excellent work. In addition to the printed volume PRE VIII, all PRE volumes can openly be accessed on-line (<http://austriaca.at/pre>).

### THE EDITORS

G. Fischer

G. Mann

M. Panchenko

P. Zarka

