

Euoplanet Society Workshop

S-SAIL

Solar System Atmospheres' Investigation and exoplanets

IA/Faculty of Science, Lisbon, June 27-28 2019

Program

Oral presentations are:

- 20-25 min long for keynote speakers
- 10 min long for contributed talks

Note: allocated time slots include a few extra minutes for questions/discussion and change of speakers

27 June, 2019

9:00 - 9:20 | **Welcome coffe & Registration**

9:20 - 9:30 | Welcoming remarks

Session: Clouds and Dynamics

Chair: Thomas Widemann

9:30 - 10:00 | **Jupiter and Saturn meteorological phenomena**

A. Sanchez-Lavega (keynote speaker)

10:00 - 10:30 | **The red chromophore on Jupiter: the case of the North Temperate Belt**

S. Pérez-Hoyos (keynote speaker)

10:30 - 10:45 | **A convective disturbance in Jupiter's South Temperate Belt**

P. Iñurrigarro

10:45 - 11:15 | **COFFEE BREAK - POSTERS**

11:15 - 11:45 | **Meridional and Zonal winds at Venus' atmosphere from Cloud tracking, Doppler techniques and comparison with modelling**

P. Machado (keynote speaker)

11:45 - 12:00 | **Akatsuki (cloud-tracking) and TNG/HARPS-N (Doppler velocimetry) coordinated wind measurements of cloud top Venus' atmosphere**

R. Gonçalves

12:00 - 12:15 | **Adaptation to infrared of Doppler Velocimetry applied to Saturn with CARMENES**

M. Silva

12:15 - 12:30 | **Atmospheric Science with the Visual Monitoring Camera onboard Mars Express: recent results**

J. Hernandez-Bernal

12:30 - 14:00 | LUNCH BREAK

Session: Atmospheric Waves

Chair: Pedro Machado

- 14:00 - 14:30 | Gravity wave drag in the atmosphere of Earth
P. Miranda (keynote speaker)
- 14:30 - 15:00 | A wave-driven semi-annual oscillation in Martian atmosphere reanalyses
P. Read (keynote speaker)
- 15:00 - 15:30 | Impact of non-orographic Gravity waves on Mars and Venus atmosphere
G. Gilli (keynote Speaker)
- 15:30 - 15:45 | Characterising Atmospheric Gravity Waves on the lower and upper cloud bank using Venus Express VMC and VIRTIS images
J. Silva
- 15:45 - 16:00 | POSTER Flash Presentations (2-3 mins per presentation)

16:00 - 16:30 | COFFEE BREAK - POSTERS

Session: Atmospheric Modelling

Chair: Santiago Perez-Hoyos

- 16:30 - 17:00 | Modelling gas giants' atmospheric dynamics with a GCM
A. Spiga (keynote Speaker)
- 17:00 - 17:30 | Studying Exoplanet Atmospheres using a Virtual-Lab
J. Mendonça (keynote Speaker)
- 17:30 - 17:45 | Meteorological predictions for Jezero crater (NASA's Mars 2020 rover landing site) through Mars Regional Atmospheric Modeling System (MRAMS): a preview for MEDA instrument
J.P. Garcia

18:00 | End of 1st day

20:30 | SOCIAL DINNER at the restaurant "Martinho da Arcada",
Praça do Comercio, 3

28 June, 2019

Session: Atmospheric Characterisation (Solar System)

Chair: J.H. Martins

- 9:15 - 9:45 | Retrievals of ozone and aerosols on Mars using TGO/NOMAD UVIS solar occultations
A. Piccialli (keynote Speaker)
- 9:45 - 10:00 | Composition and chemistry of the neutral atmosphere of Venus
E. Marcq
- 10:00 - 10:15 | Uranus in Mid-Spring: Persistent Temperatures and Atmospheric Circulations Inferred from Thermal Imaging
M. Roman
- 10:15 - 10:30 | Triton's atmospheric profiles from October 5th 2017 stellar occultation
J. Oliveira

Session: Atmospheric Characterisation (Exoplanets)**Chair: Gabriella Gilli**

10:30 - 11:00 | Characterisation of atmospheres of exoplanets using ESPRESSO/CHEOPS
O. Demangeon (keynote Speaker)

11:00 - 11:15 | Methane production in worlds subjected to strong chondritic flux
S. Tanbakouei

11:15 - 11:45 | COFFEE BREAK - POSTERS

11:45 - 12:15 | Atmospheres around magma ocean world
E. Marcq (keynote Speaker)

12:15 - 12:30 | The terrestrial magma ocean solidification: Building an atmosphere under the young Sun

A. Nikolau

12:30 - 13:00 | The inner solar system as observed by transit spectro-photometry
T. Encrenaz (keynote Speaker)

13:00 - 13:30 | Characterising exoplanet atmospheres with reflected light: The CCF approach

J. H. Martins (keynote Speaker)

13:30 - 14:45 | LUNCH BREAK

Session: Present & Future Missions**Chair: Arianna Piccialli**

14:45 - 15:15 | EnVision
T. Widemann (keynote Speaker)

15:15 - 15:45 | Recent Scientific Highlights from Mars: Mars Express and ExoMars 2016 Trace Gas Orbiter

A. Cardesin (keynote Speaker)

15:45 - 16:00 | Characterisation of MAJIS/JUICE VIS-NIR detectors
M. Cisneros

16:00 - 16:15 | Contributions of amateur astronomers to the study of planetary atmospheres and the PVOL database in VESPA

R. Hueso

16:15 - 16:30 | Closing Remarks and End of Meeting