

Scientific Workshop ``From Mars Express to Exomars``

27 – 28 February 2018

ESAC (ESA), Madrid, Spain



Interdisciplinary Workshop devoted to revise our current understanding of Mars, from the surface to the upper atmosphere, in the eve of the Exomars TGO operational science phase

SCOPE : Organized in the frame of the EU H2020 project “UPWARDS” at its closure, this workshop is perfectly timed to summarize recent progress in a great variety of research topics, aiming at a global and synergistic vision of Mars, its processes and couplings.

- Interior-Surface-Atmosphere exchanges of thermal fluxes and trace species
- Martian surface' intrinsic reflectivity, spectral properties, topography effects
- Global water cycle (vapour & ice) and the role of water ice clouds
- Atmospheric dust, particles distribution & properties, dust storms and variability
- Photochemistry, atmospheric stability, trace species across the Terminator
- Upper atmosphere composition, wave propagation, airglow emissions, escape to space
- Delivering of Mars data products and modeling results to scientific archives

Specially welcome are analysis and revision of datasets from Mars Express and previous missions, as well as preparation studies for the exploitation of the Exomars TGO measurements.

These can include model developments, data assimilation techniques, and novel data analysis and retrieval tools. Results from the UPWARDS consortium are foreseen to be presented, including the delivery of this project's data products to the ESA Planetary Science Archive.

CALL FOR ABSTRACTS : Deadline November 30th, 2017

SCIENTIFIC COMMITTEE:

Chair : M. A. López-Valverde (IAA-CSIC, Spain)

A. Cardesin (ESAC, ESA)

M. Patel (OU, UK)

F. Montmessin (LATMOS, France)

S. Robert (IASB, Belgium)

S. Lewis (OU, UK)

F. Altieri (IAPS-INAF, Italy)

O. Karatekin (ROB, Belgium)

D. Titov (ESTEC, ESA)

O. Witasse (ESTEC, ESA)

G. Bellucci (IAPS-INAF, Italy)

F. Forget (LMD, France)

A. C. Vandaele (IASB, Belgium)

M. López-Puertas (IAA-CSIC, Spain)

J. Ruiz (UCM, Spain)

M. Giuranna (IAPS-INAF, Italy)

H. Svedhem (ESTEC, ESA)

O. Korablev (IKI, Russia)

N. M. Schneider (LASP, Univ.Colorado, USA)

LOCAL ORGANIZING COMMITTEE:

A. Cardesín, E. Grotheer, J. Marín-Yaseli, M. Breittfellner, M. Castillo, B. Geiger (ESAC, ESA)

CONTACTS: Miguel A. López-Valverde
Alejandro Cardesin Moinelo

valverde@iaa.es
Alejandro.Cardesin@esa.int

SPONSORS: ESAC & IAA-CSIC

