

## Lunes 27

### Inauguración

- 15:00 - 15:15 Ángel Moratilla. Subdirector General de Sistemas Espaciales del Instituto Nacional de Técnica Aeroespacial  
Miguel Mas. Director del Centro de Astrobiología (INTA-CSIC)

### Charla Invitada 1

- 15:15 - 15:45 Pilar Román. Delegada de España en el Comité de gestión del programa científico de la ESA SPF

### Charla Invitada 2

- 15:45 - 16:15 Jose Carlos del Toro. Gestor del Área de Espacio del Plan Estatal de I+D+i

### Misiones e Instrumentación (parte 1)

Moderador Javier Gómez Elvira

- 1 17:15 - 17:30 **RLS, the Raman instrument for the EXOMARS 2020 mission of ESA**  
Fernando Rull Pérez
- 2 17:30 - 17:45 **SuperCam (SCAM): next generation instrument that will be part of the payload of NASA's Mars2020 rover**  
José Antonio Manrique Martínez
- 3 17:45 - 18:00 **Nuevas tecnologías ópticas en INTA para exploración planetaria**  
Tomás Belenguer Dávila
- 4 18:00 - 18:15 **The European Stratospheric Balloon Observatory: Design Study**  
Rene Duffard
- 5 18:15 - 18:30 **Isotopically labelled materials for use in scientific space missions**  
Julio Mora Nogues

## Martes 28

### Misiones e Instrumentación (parte 2)

Moderador Tomás Belenguer

- 6 9:00 - 9:15 **Design and smart control of sensors for optimal performance: application to wind sensing in Mars**  
Manuel Dominguez Pumar
- 7 9:15 - 9:30 **Development of the MEDA Instrument Wind Sensors for the M2020 Mission**  
Cristina Ortega
- 8 9:30 - 9:45 **AMR instrument for EXOMARS 2020: scientific payload for stationary magnetic measurements on the surface of MARS**  
Marina Díaz Michelena
- 9 9:45 - 10:00 **Comet Interceptor. A mission to a dynamically new solar system object**  
Luisa María Lara
- 10 10:00 - 10:15 **Hera - the European Contribution to the First Asteroid Deflection Demonstration**  
Michael Küppers
- 11 10:15 - 10:30 **Ground-based observation of Didymos in support of Hera/DART mission**  
Julia de León
- 12 10:30 - 10:45 **The key role of the characterization of new technologies in ESA scientific missions**  
Demetrio López Molina

## Planetas gigantes

Moderadora. Luisa María Lara

- 1 11:15 - 11:30 **Convective Storm Activity in the Saturn's Southern Hemisphere during the Cassini Mission**  
Teresa del Río Gaztelurrutia
- 2 11:30-11:45 **Saturn atmospheric dynamics one year after Cassini: Long-lived features and time variations in the drift of the Hexagon**  
Ricardo Hueso Alonso
- 3 11:45-12:00 **Stormy weather and multiple haze layers in Saturn's North Polar Region**  
Agustín Sanchez Lavega
- 4 12:00 - 12:15 **Heat storage of cryogenic fluids of ocean worlds**  
Victoria Muñoz Iglesias
- 5 12:15-12:30 **Methane diffusion in water ice: relevance in the Solar System**  
Miguel Ángel Satorre Aznar
- 6 12:30 - 12:45 **¿Familia de Haumea o cluster de Haumea?**  
José Luis Ortiz

## Cuerpos pequeños del sistema solar

Moderador Adriano Campo Bagatín

- 1 14:30 - 14:45 **Thrust faulting and contraction of Ceres**  
Javier Ruiz
- 2 14:45 - 15:00 **Mechanical properties of asteroid regolith and implications to excavate impact crater in D**  
Josep María Trigo Rodríguez
- 3 15:00 - 15:15 **Morphological features of gravitational aggregates**  
Paula Benavidez Lozano
- 4 15:15 - 15:30 **Small Bodies: Near and Far - Final Report**  
René Duffard
- 5 15:30 - 15:45 **Primitive Asteroids Spectroscopic Survey - PRIMASS: Current Status**  
Juan Luis Rizos Garcia
- 6 15:45 - 16:00 **The ssos Pipeline: Identification of serendipitously observed Solar System objects in images of ground-based observatories**  
Max Mahlke
- 7 16:00 - 16:15 **Identification of asteroids using the Virtual Observatory**  
Miriam Cortés Contreras
- 8 16:45 -17:00 **An equilibrium phase diagram model to study the metamorphism experienced by the parent asteroid of Villalbeto de la Peña ordinary chondrite**  
María Jesús Herrero Perez

## Planetas Terrestres (parte 1)

Moderadora Olga Prieto

- 1 16:45 - 17:00 **The volcanology of Idunn Mons and its relationship with Olapa Chasma: a site for active volcano tectonics on Venus?**  
Iván López Ruiz-Labranderas
- 2 17:00 - 17:15 **Characterising Atmospheric Gravity Waves on the lower and upper cloud bank using Venus Express VMC and VIRTIS images**  
José Silva
- 3 17:15 - 17:30 **Atmospheric Dynamics of Venus using Akatsuki's space-based observations and cloud tracking techniques**  
Daniela Espadinha

- 4 17:30 - 17:45 **Studying the middle atmosphere of Venus and Mars combining observations and 3D modelling**  
Gabriella Gili

Miércoles 29

**Planetas Terrestres (parte 2)**

**Moderador** Fernando Rull

- 5 9:00 - 9:15 **Mars Express and ExoMars 2016 Trace Gas Orbiter: Mission Status and Recent Scientific Highlights**  
Alejandro Cardesin Moinelo
- 6 9:15 - 9:30 **Derivation of temperature from Mars dayglow**  
Francisco González Galindo
- 7 9:30 - 9:45 **The 2018 Martian Global Dust Storm over the Southern Polar Region**  
Jorge Hernández Bernal
- 8 9:45 - 10:00 **Status, performance and preliminary results of NOMAD on board the Exomars Trace Gas Orbiter**  
Miguel Ángel Lopez Valverde
- 9 10:00 - 10:15 **First Retrievals of CO<sub>2</sub> in the Upper Atmosphere of Mars with TGO-NOMAD**  
Brittany Hill
- 10 10:15 - 10:30 **Prediction of Mars meteorological variables using artificial neural networks**  
Alejandro de Cabo García

**Planetas Terrestres (parte 3)**

**Moderador** Miguel Angel Valverde

- 11 11:00 - 11:15 **The martian met network (REMS-TWINS-MEDA): interpretations/predictions of the landing sites environments**  
Jorge Pla García
- 12 11:15 - 11:30 **Caracterización de una tormenta de polvo local en Marte con medidas de REMS/MSL e imágenes de MARCI/MRO**  
Iñaki Ordóñez Etxebarria
- 13 11:30 - 11:45 **The Impact of the MY34/2018 Global Dust Storm on the near-surface atmosphere in Gale Crater, Mars**  
Daniel Viúdez Moreiras
- 14 11:45 - 12:00 **Dust lifting and deposition at Gale Crater from three Martian years of MSL REMS UV measurements**  
Álvaro Vicente Retortillo
- 15 12:00 - 12:15 **The light-toned materials at Coogoon Valles, Mars: relation to the ExoMars 2020 rover landing site.**  
Iván López
- 16 12:15 - 12:30 **Characterizing the landscape of west Coogoon Valles and southeast Oxia Planum, Mars**  
Ángel García Arnay
- 12:30 - 13:00 **Europlanet Society**  
Spain+Portugal Regional Hub

**Planetas Terrestres (parte 4)**

**Moderador** Victor Parro

- 17 14:30 - 14:45 **"Terra Nova": CARMENES and prospects for discovering Earth analogues**  
Jose A. Caballero

- 18 14:45 -15:00 **Importancia de los microorganismos del ciclo del nitrógeno en la transformación de los sustratos minerales en el subsuelo profundo.**  
Cristina Escudero Parada
- 19 15:00 -15:15 **Dallol geothermal area as an Earth Analogue: case study and validation**  
Felipe Gómez
- 20 15:15 -15:30 **Bacterial presence in chaotropic perchlorates solutions at subzero temperatures: Implications to Mars**  
Laura García Descalzo
- 21 15:30 - 15:45 **Organic matter preservation in clay minerals under Mars-like conditions**  
Carolina Gil Lozano
- 22 15:45 - 16:00 **Subsurface geometry and emplacement conditions of a giant dike system in the Elysium Volcanic Province, Mars**  
Samuel Rivas Dorado

### Planetas Terrestres (parte 5)

Moderador Victor Parro

- 23 16:30 - 16:45 **Geochemical characterization by Raman and vis-NIR Spectroscopies of a terrestrial Martian analogue: the submarine volcano of Meñakoz (Biscay, Spain)**  
Gorka Arana
- 24 16:45 - 17:00 **Raman microspectroscopy coupled to SEM/EDS to detect and identify organic matter in Impact Glasses, Meteorites and Terrestrial Analogs**  
Juan Manuel Madariaga Mota
- 25 17:00 - 17:15 **Raman microspectroscopy to detect high temperature and high pressure minerals in meteorites: clues about their formation**  
Kepa Castro Ortiz de Pinedo
- 26 17:15 - 17:30 **The BIOMEX experiment on-board the International Space Station: limits of life and detection of biomarkers after exposure to space- and to Mars-like conditions**  
Rosa de la Torre Noetzel