



10:00 WELCOME TO THE COURSE

Günther Hasinger

ESA Director of Science & ESAC Director

Miguel Más Hesse

Centre of Astrobiology, Astrophysics Department (CSIC-INTA)

Jesús Alonso Martín

ISDEFE Business Development Director

Michel G. Breittellner, Beatriz González-García

CesaR Team

Rosa Doran

NUCLIO

11:00 INTRODUCTION TO THE EUROPEAN SPACE AGENCY

Javier Ventura-Traveset

ESA Head of Galileo Navigation Science Office

12:00 COFFEE BREAK

12:15 ESA EARTH EXPLORERS

Jorge Fauste

ESA SMOS Instrument Operations Manager

13:15 LUNCH

14:30 WARM UP

14:45 21ST CENTURY SKILLS ON A MISSION TO EARTH

Rosa Doran

NUCLIO

15:45 HANDS-ON SESSION: A 3D EARTH WITH GOOGLE EARTH

Beatriz González-García

CesaR scientific cases coordinator

16:30 COFFEE BREAK

16:45 GRAVITY, MAGNETISM AND SPACE PHYSICS

Rune Floberghagen

ESA Head of the Mission Operations Division

17:30 NAVIGATION SATELLITES AND EARTH OBSERVATION

Manuel Castillo Fraile

GNSS Galileo Science Office, Mars Express Science Ground Segment

18:00 VIRTUAL VISIT TO THE SMOS CONTROL ROOM

Jorge Fauste

ESA SMOS Instrument Operations Manager

18:15 TEACHERS FEEDBACK & ANNOUNCEMENTS



19 - 23 October 2020

A JOURNEY TO SPACE EXPLORATION MISSIONS

GALILEO TEACHER TRAINING PROGRAM

DAY 2 | MARS

20 OCTOBER 2020



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GMT+2

10:00 MARS MISSIONS

Alejandro Cardesin

Mars Express Science Ground Segment Manager
Science Operations Coordination with ExoMars

11:00 HANDS-ON SESSION: MARS SEASONS

Beatriz González-García

CesaR science cases coordinator

12:00 COFFEE BREAK

12:15 HANDS-ON SESSION: CRATERS IN THE CLASSROOM & DNA ACTIVITY

Sandra Benitez Herrera

Instituto Astrofísica de Canarias (IAC) communicator, CosmoLAB coordinator

13:15 LUNCH

14:30 WARMUP

14:45 HANDS-ON SESSION: IMAGE PROCESSING WITH SALSAJ

Rosa Doran

NUCLIO

15:45 HANDS-ON SESSION: MARS EXPRESS VISUAL MONITORING CAMERA

Jorge Hernández Bernal

University of the Basque Country

16:45 COFFEE BREAK

17:00 HANDS-ON SESSION: MISSION TO MARS

Beatriz González-García

CesaR science cases coordinator

18:00 VIRTUAL VISIT TO THE MARS ROOM (ESAC)

Michel G. Breitfellner

CesaR Coordinator, Mars Express Science Operations Engineer

18:15 TEACHERS FEEDBACK & ANNOUNCEMENTS





10:00 GETTING TO KNOW OUR STAR: 50 YEARS OF SOLAR OBSERVATIONS FROM SPACE

Anik de Groof

ESA Solar Orbiter Instrument Operations Scientist

11:00 INTRODUCTION TO STELLARIUM

Rosa Doran

NUCLIO

11:30 HANDS-ON SESSION: PLAY WITH STELLARIUM

Rosa Doran, Fraser Lewis, Beatriz González-García, Michel G. Breitfellner

12:00 COFFEE BREAK

12:15 HANDS-ON SESSION: YOU ARE GALILEO (WITH STELLARIUM)

Rosa Doran

13:15 LUNCH

14:30 WARMUP

14:45 HANDS-ON SESSION: ECLIPSES & TRANSITS (WITH SALSAJ)

Rosa Doran, Manuel Castillo Fraile

15:45 VIRTUAL VISIT TO THE CESAR ESAC OBSERVATORIES

Michel G. Breitfellner

16:00 CESAR SPACE SCIENCE EXPERIENCE ON-LINE

Beatriz González-García

16:45 COFFEE BREAK

17:00 HANDS-ON SESSION: DIFFERENTIAL SUN ROTATION & CORONAL MASS EJECTION

Beatriz González-García

18:15 TEACHERS FEEDBACK & ANNOUNCEMENTS

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DAY 4 | COSMIC VISION

22 OCTOBER 2020



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10:00 TALK: ESA SCIENCE MISSIONS

Markus Kissler-Patig

ESA Head of the Science and Operations Department

11:00 HANDS-ON SESSION: THE MYSTERIES OF THE UNIVERSE WITH ESASKY

Beatriz González-García

12:00 COFFEE BREAK

12:15 ROBOTIC ASTRONOMY: THE FAULKES TELESCOPE PROJECT & NATIONAL SCHOOLS' OBSERVATORY

Fraser Lewis

Faulkes Telescope Project & National Schools' Observatory

13:15 LUNCH

14:30 WARMUP

14:45 EXPLORE THE UNIVERSE WITH PETER

Nayra Rodríguez Eugenio

Instituto Astrofísica de Canarias (IAC) communicator, PETeR coordinator

15:45 HANDS-ON SESSION: SUPERNOVAE WITH ROBOTIC TELESCOPES 1

Nayra Rodríguez Eugenio & Fraser Lewis

16:45 COFFEE BREAK

17:00 HANDS-ON SESSION: SUPERNOVAE WITH ROBOTIC TELESCOPES 2

Fraser Lewis & Nayra Rodríguez Eugenio

18:00 VIRTUAL VISIT TO THE XMM-NEWTON CONTROL ROOM

María Santos Lleó, Beatriz González-García

18:15 TEACHERS FEEDBACK & ANNOUNCEMENTS



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DAY 5 | SCIENCE IN THE SOCIETY

23 OCTOBER 2020



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GMT+2

10:00 SPACE SAFETY

Beatriz Jilete

Space Surveillance and Tracking Systems Engineer
Space Debris Office, Space Safety Programme Office

11:00 HANDS-ON SESSION: EARTH OBSERVATION FOR SOCIETY (GOOGLE EARTH & SNAP)

Manuel Castillo Fraile

12:00 COFFEE BREAK

12:15 SPACE IN OUR DAILY LIVES – DESIGN THINKING & CAREERS

Rosa Doran

13:15 LUNCH

14:30 WARMUP

14:45 DIGITAL SKILLS, OPEN SCHOOLING AND INCLUSION

Rosa Doran, Sandra Benitez Herrera

15:45 HANDS-ON SESSION: HUNTING SATELLITES WITH PLANETARIUM SW & APPS

Gustavo Rojas
NUCLIO

16:45 COFFEE BREAK

17:00 CLASSROOM RESOURCES

All speakers

18:00 EVALUATION AND FINAL REMARKS

18:15 ERASMUS SCHOOL'S ACCREDITATION

Rosa Doran

18:30 CLOSING EVENT (ACKNOWLEDGEMENTS)

