

26-30 JULY
2021

“OUR HOME IN THE COSMIC OCEAN”
ONLINE COURSE

VII INTERNATIONAL SUMMER COURSE ASTRONOMY EDUCATION ADVENTURE IN THE CANARY ISLANDS



EXCELENCIA
SEVERO
OCHOA



NUCLIO
Núcleo Interactivo de Astronomía



NSO



Isdefe



European School Observatory Roadmap

PROGRAMME

Monday July 26

WEST	CEST	Activity	Lecturer
9:00 – 9:45	10:00 – 10:45	Opening & Presentations	NRE, RD, IAC Directorate (TBC)
9:45 – 10:30	10:45 – 11:30	Cosmos: 40 years of personal voyage	Héctor Socas
10:30 – 11:00	11:30 – 12:00	Break	
11:00 – 12:30	12:00 – 13:30	Introduction to Astronomy	NRE, Héctor Socas
12:30 – 14:15	13:30 – 15:15	Break	
14:15 – 14:30	15:15 – 15:30	Warm-up	
14:30 – 15:30	15:30 – 16:30	Innovative methodologies for education	RD
15:30 – 16:30	16:30 – 17:30	The Voyager missions	SBH
16:30 – 17:00	17:30 – 18:00	Feedback and Q&A	

Tuesday July 27

WEST	CEST	Activity	Lecturer
9:00 – 10:30	10:00 – 11:30	The shores of the cosmic ocean	SBH
10:30 – 11:00	11:30 – 12:00	Break	
11:00 – 12:30	12:00 – 13:30	Canary Islands: a window to the Cosmos	NRE
12:30 – 14:15	13:30 – 15:15	Break	
14:15 – 14:30	15:15 – 15:30	Warm-up	
14:30 – 15:00	15:30 – 16:00	Introduction to Stellarium	FL
15:00 – 16:30	16:00 – 17:30	Workshops with planetarium software: 1) Cosmic calendar, 2) Investigate Earth movements, 3) Calculate the mass of Jupiter	RD, BGG, NRE , SBH
16:30 – 17:00	17:30 – 18:00	Feedback and Q&A	

Wednesday July 28

WEST	CEST	Activity	Lecturer
9:00 – 10:30	10:00 – 11:30	Robotic telescopes: Faulkes Telescope Project, NSO, Down2Earth	FL
10:30 – 11:00	11:30 – 12:00	Break	
11:00 – 12:30	12:00 – 13:30	PETeR: IAC's Educational Project with Robotic Telescopes	NRE
12:30 – 14:15	13:30 – 15:15	Break	
14:15 – 14:30	15:15 – 15:30	Warm-up	
14:30 – 16:30	15:30 – 17:30	Introduction to image processing	RD, FL
16:30 – 17:00	17:30 – 18:00	Feedback and Q&A	

Thursday July 29

WEST	CEST	Activity	Lecturer
9:00 – 10:30	10:00 – 11:30	CESAR Project	MB, BGG
10:30 – 11:00	11:30 – 12:00	Break	
11:00 – 12:30	12:00 – 13:30	Travel to the Universe with ESA sky	BGG
12:30 – 14:15	13:30 – 15:15	Break	
14:15 – 14:30	15:15 – 15:30	Warm-up	
14:30 – 16:30	15:30 – 17:30	Investigate the Solar System with robotic telescopes	NRE
16:30 – 17:00	17:30 – 18:00	Feedback and Q&A	

Friday July 30

WEST	CEST	Activity	Lecturer
9:00 – 10:30	10:00 – 11:30	Schools in the 21st Century and other NUCLIO's projects	RD, GR
10:30 – 11:00	11:30 – 12:00	Break	
11:00 – 12:30	12:00 – 13:30	Heaven and Hell: asteroids and comets	IAC researcher (TBC)
12:30 – 14:15	13:30 – 15:15	Break	
14:15 – 14:30	15:15 – 15:30	Warm-up	
14:30 – 16:00	15:30 – 17:00	Hunting for Asteroids	FL, GR, BGG, NRE
16:00 - 16:30	17:00 - 17:30	Final remarks and evaluation	

LECTURERS

Instituto de Astrofísica de Canarias (IAC; Spain)

IAC researcher (TBC)

Researcher specialized in minor bodies in the Solar System

Héctor Socas Navarro

Researcher specialized in Solar Physics, Director of the Science and the Cosmos Museum (Museums of Tenerife), Coordinator of the “Coffee Break: Señal y Ruido” podcast

Nayra Rodríguez Eugenio - NRE

Astrophysicist and science communicator. Coordinator of the Educational Project with Robotic Telescopes (PETeR)

Sandra Benítez Herrera – SBH

Astrophysicist and science communicator. Coordinator of the CosmoLab project (until Feb 2021)

NUCLIO (Portugal)

Rosa Doran - RD

President of NUCLIO, chair of the Galileo Teacher Training Program and vice-president of the executive council of the Global Hands-on Universe Association

Gustavo Rojas - GR

Astrophysicist, Astronomy Education and Outreach Specialist. Project coordinator at NUCLIO

FTP, NSO (United Kingdom)

Fraser Lewis - FL

Research Director of the Faulkes Telescope Project (FTP) and Operations Officer for the National Schools' Observatory (NSO)

CESAR (ESAC, ESA-INTA-ISDEFE; Spain)

Beatriz González García - BGG

Astrophysicist and science communicator. CESAR Space-Science Experiences and Science cases coordinator

Michel G. Breiffellner - MB

Astrophysicist, Mars Express Operations Engineer, Coordinator of the CESAR education initiative

COLLABORATORS

IAC (Spain)

Inés Bonet

Audiovisual and design specialist

Iván Jiménez

Audiovisual and social media specialist

Aarón García Botín

Journalist

NUCLIO (Portugal)

Ana Costa

Physics and Chemistry teacher. Projects Coordinator at NUCLIO

Teresa Direitinho

Social media specialist