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GOBIERNO DE ESPAÑA
MINISTERIO DE EDUCACIÓN, CULTURA Y DEPORTE

UIMP
Universidad Internacional Menéndez Pelayo

Santander 2017

INFORMACIÓN GENERAL

→ Hasta el 16 de junio de 2017

Santander
Campus de Las Llamas
Avda. de los Castros, 42
39005 Santander
Tel. 942 29 87 00 / 942 29 87 10
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Madrid
C/ Isaac Peral, 23
28040 Madrid
Tel. 91 592 06 31 / 91 592 06 33
Fax 91 592 06 40 / 91 543 08 97
alumnos@uimp.es

Horario
de 9:00 a 14:00 h
de 16:00 a 18:00 h (excepto viernes)

→ A partir del 19 de junio de 2017

Santander
Palacio de la Magdalena
39005 Santander
Tel. 942 29 88 00 / 942 29 88 10
Fax 942 29 88 20

Horario
de 9:00 a 14:00 h
de 15:30 a 18:00 h (excepto viernes)

PLAZOS

→ Plazo de solicitud de becas

Hasta el día 17 de mayo, para los cursos que comiencen antes del 7 de julio de 2017

Hasta el día 12 de junio, para los cursos que comiencen a partir del día 10 de julio de 2017

→ Apertura de matrícula

Desde el 24 de abril de 2017
(Plazas limitadas)

* Curso acreditado por el Ministerio de Educación, Cultura y Deporte para profesores de enseñanzas no universitarias

NIPO: 041-17-002-6

Eduardo Arroyo para la UIMP, 2017

XV International School of Astrobiology «Josep Comas i Solà»

*Exoplanet Habitability

Rory Barnes

José Miguel Mas Hesse

Santander
June 26 to 30, 2017

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→ Código 63EC | Tarifa: C | ECTS: 1

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CENTRO DE ASTROBIOLOGÍA
ASOCIADO AL NASA ASTROBIOLOGY INSTITUTE
CSIC INTA

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XV International School of Astrobiology «Josep Comas i Solà»
Exoplanet Habitability

Directors
Rory Barnes
Astrobiology Program
University of Washington, USA
José Miguel Mas Hesse
Centro de Astrobiología CSIC-INTA, Spain

Organization
Carlos Briones
Centro de Astrobiología CSIC-INTA, Spain

June 26 to 30, 2017

Monday 26

10:00 h | Welcome lectures
Astrobiology at CAB
José Miguel Mas Hesse
Astrobiology at NASA
Rory Barnes

11:30 h | Introduction to Exoplanets, Detection Methods, Statistics and Expected Yields of Future Surveys
Don Pollacco
University of Warwick, UK

15:00 h | The Diversity of Tectonic Modes
Adrian Lenardic
Rice University, USA

Tuesday 27

09:00 h | Excursion to Zumaia Flysch (whole day)

Wednesday 28

10:00 h | Spectral Signatures of Habitability
Giada Arney
NASA Goddard Space Flight Center, USA

11:30 h | Methods and Limitations to the Detection of Terrestrial Exoplanet and their Atmospheres
Don Pollacco

15:00 h | Planet Formation Mechanisms
Sean N. Raymond
Université de Bordeaux, France

Thursday 29

10:00 h | Plate Tectonics and Habitability
Adrian Lenardic

11:30 h | Haze and Cloud Formation in the Solar System and Beyond
Giada Arney

15:00 h | The Diversity of Terrestrial Planet Compositions
Sean N. Raymond

19:00 h | Open Lecture (in Spanish)
Planetas extrasolares: en busca de otras Tierras
María Rosa Zapatero
Centro de Astrobiología CSIC-INTA, Spain

Friday 30

10:00 h | Student presentations

11:30 h | Synthesis + diplomas

With the detection of small planets orbiting nearby stars mounting and new characterization methods appearing, the discovery of life beyond the Solar System may occur in the near future. However, the challenges in recognizing habitable exoplanets, i.e. those with liquid water on their surface, remain significant. This School will bring together scientists interested in observational techniques that can probe terrestrial planet properties, as well as the physical processes that dictate planetary features such as planet formation, atmospheric phenomena, and geophysical effects.

Traditionally, the search for habitable planets beyond the Solar System begins with identifying terrestrial exoplanets orbiting in their host star's habitable zone: a shell around the star in which an Earth-like planet with an atmosphere could support liquid water on its surface. While this condition must be met, many additional features are important which can be roughly divided into factors due to the host star, the planetary system, and the planet itself. The School will explore the connections between these aspects of planetary systems that permit habitable surface environments. Thus, the intellectual connections the students develop at this School will facilitate interdisciplinary research that brings the groundbreaking discovery of life beyond Earth within our grasp.