The XIV International School in Astrobiology will examine how Earth analog environments inform humanity's search for extraterrestrial life. The School will provide an interdisciplinary examination of the chemical, physical and geological properties of potential extraterrestrial habitats and an in-depth description and analysis of sites on Earth with similar characteristics. In particular, lectures and activities will consider icy satellites, rocky planets in the Solar System, extreme Earth environments, and terrestrial exoplanets.

Earth has a wide diversity of environments and while many are hostile to humans and the life we encounter on a daily basis, they are nonetheless habitats for many types of "extreme" forms of life. From brine channels in sea ice to acidic hot springs or the driest deserts, Earth-based life has found a way to grow, thrive and survive. This adaptability inspires astrobiologists to broaden the search for life in the universe to environments previously thought inhospitable. This year's School will explore the diverse environments of Earth that may resemble environments on Mars, Europa and beyond. 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

UIMP
Universidad Internacional Menéndez Pelayo

Santander 2016

XIV INTERNATIONAL SHCOOL OF ASTROBIOLOGY «JOSEP COMAS Y SOLÁ»

Earth analog environments and the search for life beyond the Earth

Rory Barnes
José Miguel Mas Hesse

Santander
June 20-24, 2016

www.uimp.es

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Earth analog environments and the search for life beyond the Earth

Directors

Rory Barnes
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Organization

Carlos Briones
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June 20-24, 2016

Monday 20

10:00 h | Welcome Lectures
Rory Barnes
José Miguel Mas Hesse

11:30 h | Hot springs and other astrobiology- relevant sites on Earth
Kathy Campbell
University of Aucklannd, New Zealand

15:00 h | Europa, Enceladus and other icy worlds
Britney E.Schmidt
Georgia Institute of Technology School of Earth and Atmospheric Sciences, USA

16.30 h | Project assignment and development

Tuesday 21

10:00 h | Río Tinto as a terrestrial Mars analogue
Ricardo Amils
Uniersidad Autónoma de Madrid, Spain

11:30 h | The geological history of Mars and its habitability: a multifold tale
Gian- Gabriele Ori
International Researh School of Planetary Science. Università d Annunzio, Italy

15:00 h | Importance of the dark biosphere for the habitability concept
Ricardo Amils

Wednesday 22

9:00 h | Excursion to Zumaia Flysch
Asier Hilario
Geólogo

Thursday 23

10:00 h | Cold seep environments as analog sites for astrobiology
Kathy Campbell

11:30 h | Glacial Earth environments as Europa/ Enceladus analog sites
Britney E.Schmidt

15:00 h | From concepts to practice:Terrestial Mars analogues for geology, astrobiology, and human exploration
Gian- Gabriele Ori

19:00 h | Open Lecture (in Spanish)
Océanos planetarios, la nueva frontera de la exploración espacial
Olga Prieto Ballesteros
Centro de Astrobiología CSIC- INTA, Spain

Friday 24

10:00 h | Student presentation

11.30 h | Synthesis + diplomas

12:00 h | Adjourn