

SPERO Meeting - 8th May 2019, Room 306, Gregory Building, University
of Glasgow, Lilybank Gardens, G12 8QQ.

Registration, tea and coffee will be available from 08:30 in room 229 of
the the Gregory Building

Powerpoint presentations will be run through a PC. Presentations should be
uploaded prior to the start of the session using a USB stick. Speakers can
attach their own laptop, but Mac users should remember to bring a
connector.

Time	Speaker	Title
09:00	Luke Daly	Welcome

Sample return and curation: Country road, take me home, to the place, I
belong.

Chairs: Caroline Smith and Luke Daly

09:15	Caroline Smith	Mars Sample Return
09:45	Jonathan Moffatt	Atomic Force Microscopy: An Introduction and characterisation of meteorite samples

Mission Updates: For here am I sitting in a tin can.

Chairs: Caroline Smith and Luke Daly

10:00	Alastair Tait	Formation of Perseverance Valley, Endeavour Crater, Mars.
10:15	Colin Snodgrass	Where next after Rosetta? The Comet Interceptor mission
10:30	Axel Hagermann	Haya, Haya, Haya(busa2) off the ground - A Review
10:45	Tea break	

Outreach and Engagement: Fly me to the Moon

Chairs: Annemarie Pickersgill & Evangelos Christou

11:15	Claudia Antolini	To infinity - and beyond! Public engagement with space science
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11:30 Nicholas Attree Fracturing on 67P: Geology on a Comet!

Impacts: Boom! Here comes the BOOM! Ready or not

Chairs: Annemarie Pickersgill & Evangelos Christou

12:00 Annemarie Pickersgill The Dinosaurs - My part in their Downfall

12:15 Lee White Crystallization and impact history of a meteoritic sample of early lunar crust (NWA 3163) refined by atom probe geochronology

12:30 Evangelos Christou Post-Impact Habitability at the Chicxulub Crater.

Lightning round 1

12:45 Sara Motaghian The ExoMars Like Field Trials (ExoFIT): PanCam Emulator Multispectral Observations

12:50 Sue Kee SoXSA

12:55 Sammy Griffin Something Something Nakhilites

13:00 **Lunch, Room 229**

(Food is provided, please contact Áine at a.obrien.1@research.gla.ac.uk with any additional dietary requirements)

14:00 SPERO Strategy & Vision Lunch Meeting

Planetary Materials: I'm burning through the sky yeah!

Chairs: Martin Lee & Áine O'Brien

14:30 Hui Jiang High speed analysis of meteorite samples using a high sensitivity CMOS-based EBSD detector

14:45 Alice Macente Through time and space: Inside meteorites with x-ray microtomography!

Astrobiology: Is there life on Mars?

Chairs: Martin Lee & Áine O'Brien

15:00 Rosie Cane Taking extreme measures; A Quantitative study of Multiple Stress Interactions at the Limits of Life

- 15:15 Áine O'Brien Complex Organics in Martian Meteorites
- 15:30 Evangelos Christou Martian Fluid Compositions. The Habitability of
Two Ancient Environments
- 15:45 **Tea break**

Planetary Atmospheres: Let the sky fall

Chairs: Lydia Hallis & Nicola Mari

- 16:00 Jason Sharkey Mapping the Structure and Evolution of Titan's
Northern Polar Vortex

Building Solar Systems: Where did you come from, where did you go! Chairs:
Lydia Hallis & Nicola Mari

- 16:15 Christian Schroder Iron in the solar system and Mössbauer
Spectroscopy
- 16:30 Geoffrey Bromiley Steep-sided Volcanic Domes formed by Eruption
of Crystal Mush: from Cyprus to Venus

Lightning round 2

- 16:45 Robert Steele Isotopic Evidence for the Origin and Fate of the
Late Venerer
- 16:50 Evangelos Christou Controls on the Duration of Impact-Induced
Hydrothermalism via Numerical Simulations
- 16:55 Nicola Mari Chlorine Abundance in the Martian Interior
- 17:00 Lydia Hallis D/H Ratios of Early Crystallising and late-stage
Hydrous Minerals in Martian Meteorite MIL
090136: Tracing the Source of Nakhlite Cl-rich
Fluid

Evening Social: after the talks we will be going to [Innis and Gunn](#), a nearby
pub on Ashton Lane, for drinks and food. All are welcome.