

# Understanding Solar System evolution using outer Solar System samples

Hybrid RAS Specialist Discussion Meeting

14<sup>th</sup> April 2023

## Morning Session

10:30-10:35: *Welcome*

10:35-10:50: *Sara Russell (NHM)* - Sample return missions and Bennu predictions

10:50-11:05: *Kana Amano (Tohoku University)* - Ground truth provided by a carbonaceous asteroid:  
Reflectance spectroscopy of the samples collected from asteroid Ryugu

11:05-11:20: *Carly Howett (Oxford)* - Exploring the outer solar system with space robots

11:20-11:35: *Nikki Sridhar (Oxford)* - Magnetic studies of carbonaceous chondrites

11:35-11:50: *Queenie Chan (Royal Holloway)* - The delivery of outer solar system organics and its implication  
for the origin of life on Earth

11:50-12:05: *Peter Krizan (Royal Holloway)* - Fluid inclusion candidates in meteorites

12:05-13:45: Lunch

## Afternoon Session

13:45-14:00: *Ashley King (NHM)* - Tales from the Asteroid Belt: Old Stories from New Falls

14:00-14:15: *Pierre-Etienne Martin (Glasgow)* - The Unusual Suspects: An insight into the Calcium-Aluminium-rich Inclusion populations within the Winchcombe meteorite

14:15-14:30: *Laura Jenkins (Glasgow)* - No Meteorite is Pristine: Terrestrial Evaporite Phases found on Winchcombe

14:30-14:45: *Mike Zolensky (JSC)* - The Stardust Mission To and From Comet Wild2: Resolved and Unresolved Questions

14:45-15:05: *Martin Suttle (OU)* - The role of cosmic dust in constraining the diversity of the cometary reservoir

15:05-15:20: *Chris Herd (UAlberta)* - The Tagish Lake (C2 ungrouped) meteorite: Insights from a Pristine Meteorite Fall

15:20-15:30: *Discussion*

To register for the meeting please visit [here](#).

Registration is free for RAS fellows and £15 (£5 for online) for non-fellows.

Please send any other enquiries to Helena Bates ([h.bates@nhm.ac.uk](mailto:h.bates@nhm.ac.uk))

**Organised by:** Helena Bates (NHM), Catherine Harrison (NHM), Charlotte Bays (NHM), Laura Jenkins (Glasgow), Pierre-Etienne Martin (Glasgow), Áine O'Brien (Glasgow), Cameron Floyd (Glasgow)