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**Programme for SEMT One Day Meeting**

**11th December 2019**

**Flett Lecture Theatre, Natural History Museum, London**

09.15 – **Registration:** Flett Theatre foyer

09.55 – **Welcome and Introduction:** SEMT Chair, Chris Jones

10.00 – 10.25 A microscopy centre for Steels and Batteries (and everything in between!)

**Geoff West** – Warwick University

10.25 – 10.50 Photogrammetry with your SEM - 3D prints from SEM micrographs in 3 not-so-easy

steps! **Alex Ball** - The Natural History Museum

10.50 – 11.25 **Coffee and Trade exhibition**

11:25 - 11:50 Revealing the structure-function relationship of human dental tissue using advanced

time-resolved microscopy **Tan Sui**, University of Surrey

11:50 12:50 **RMS Beginners’ Competition**

**11:50-12:00** Exploring the Microphytobenthos in the Intertidal Thames

**Dain Son**, University of Westminster

**12:00-12:10** Improving Primary Ciliary Dyskinesia diagnosis using Artificial Intelligence

**Andreia Pinto**, Royal Brompton Hospital

**12:10-12:20** Does a maternal high fat diet during pregnancy lead to changes in offspring brain

vasculature? **Regan Doherty**, Southampton General Hospital

**12:20-12:30** Micro-mechanical Testing of Aged Thermal Barrier Coatings.

**Minal Patel**, National Physical Laboratory

**12:30-12:40 RMS beginner available slot**

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12.50 – 13.10 **SEMT AGM: Flett Theatre (including SEMT committee membership/changes of officers and committee members, new online banking proposal to members**

13.10 – 14.20 **Lunch and Trade exhibition (+ judging for RMS competition)**

**Conference delegates photograph – Flett Theatre**

14.30 – 14.55 Glow-Worms: 3D imaging of gene expression and neuromuscular anatomy in a

parasitic flatworm **Pete Olson**, The Natural History Musem

14.55 – 15.20 Punk microscopy: the DIY ethos meets the open science era.

**Mark Pickering,** University College, Dublin

**15.20 – 16:00 Afternoon Tea and Trade exhibition**

16.00 – 16.25 Multi-scale three-dimensional imaging of the human placenta

**Rohan Lewis**, University of Southampton

16.25 – 16.50 Microscopy and collections: why every museum should use SEM-EDX

**Lucia Burgio,** Victoria and Albert Museum

16.50 – 17.15 Imaging the cell biology of virus-host interactions

**Pippa** **Hawes**,The Pirbright Institute

17.30 – 19.30 **Wine reception** **and finger buffet** Sponsored by JEOL **– NHM ‘Investigate’ Gallery + announcements and presentation to winners of the RMS Beginners competition**