

Monday 20th October
Location: Hub Lecture Theatre

12:00-13:00	**Registration – Tea/Coffee available on arrival**
13:00-13:30	**Welcome & Introduction** **Mahesh Anand**, Chair **Arosha Bandara**, Associate Dean and Director of STEM Research, OU **Thierry Faye**, CAMECA
13:30-14:15	**Sen Hu (keynote)** Institute of Geology of Geophysics, Beijing, Chinese Academy of Sciences, China **Knowledge of the Moon's water unraveled by the Chang'e lunar soils using NanoSIMS**
	Session Chair - Carmen Hoeschen
14:15-14:35	**Arno Schintlmeister**, University of Vienna, Austria **Strength and challenges associated with NanoSIMS analysis of (micro)biological samples**
14:35-14:55	**Angela Vogts**, Leibniz Institut for Baltic Sea Research, Germany **Employing NanoSIMS in marine science - examples and challenges**
14:55-15:10	**Laura Noone**, University of Manchester, UK **Use of NanoSIMS to elucidate copper sequestration and tolerance mechanisms in an extremophile algae for heavy metal bioremediation applications**
15:10-15:40	**Tea/Coffee Break**
15:40-16:00	**Maria-Angels Subirana**, IPREM, UPPA, France **Sulfur isotopic analysis in sulfate-reducing mercury methylating bacteria**
16:00-16:40	**Community Discussions: Image Analysis** **Session lead(s) – Carmen Hoeschen & ANO**
16:40-17:00	**Aurélien Thomen**, CAMECA, France **Introducing the CAMECA Training Platform & NanoSIMS quiz session**

17:00-18:30	**Posters** **Liza Riches**, The Open University, UK **Investigation into Bells (C2-ung) aqueous history and links to CR chondrites** **Xhonatan Shehaj**, Università di Trento, Italy **Unravelling shock-induced volatile mobility in martian meteorites by combining EBSD and NanoSIMS techniques** **Mar Benavides**, National Oceanography Centre, UK **NanoSIMS provides new insights into nitrogen-fixing microbes in the ocean** **Taehun Jang**, Korea Basic Science Institute, South Korea **Effect of sintering methods on lithium and nickel distribution in high-nickel cathode materials revealed by NanoSIMS** **Giulia Consuma**, European Space Agency, Netherlands **Lunar metasomatism: tracing pathways of volatile-driven metal transport on the Moon**
18:30-20:30	**Dinner (Provided)**

Tuesday 21st October
Location: Berill Lecture Theatre

09:00-09:30	**Registration – Tea/Coffee**
	Session Chair – Katie Moore
09:30-10:15	**Chris Grovenor (keynote)**, University of Oxford, UK **What happens when a Materials Scientist has a NanoSIMS? A brief history of what we did with Instrument #6 in Oxford**
10:15-10:30	**Gina Greenidge**, National Physical Laboratory, UK **NanoSIMS protocol development for cancer treatment applications**
10:30-11:00	**Tea/Coffee Break**
	Session Chair – Arno Schintlmeister
11:00-11:20	**Katie Moore**, University of Manchester, UK **Characterisation of aluminium-lithium alloys using NanoSIMS and EPMA**
11:20-11:35	**Eleanor Ender**, University of Manchester, UK **Nickel electrode degradation pathways probed by NanoSIMS deuterium/^{18}O isotopic depth profiling and in-situ NAP-XPS**
11:35-11:50	**Aidan Neil**, University of Manchester, UK **Advancing hydrogen isotope mapping in fusion steels: insights from NanoSIMS analysis of Grade91**
12:00-13:00	**Lunch**
13:00-14:30	**Lab Tours: Electron Microscopy Suite + NanoSIMS**
	Session Chair – Ben Rider-Stokes/Mahesh Anand
14:30-15:15	**Ian Franchi (keynote)**, The Open University, UK **Progress on high precision stable isotope measurements with NanoSIMS 50L**

15:15-15:30 **Chloe Gruyer**, The Open University, UK
NanoSIMS in situ measurements of the water content and H isotopic signatures of enstatite meteorites: Insights into the history of the inner Solar System and the origin of Earth's water

15:30-16:00 Tea/Coffee Break

16:00-17:00 **Community Discussions: Sample Preparation**
Session lead(s) – Arno Schintlmeister, Katie Moore, Ian Franchi

From 19:00 **Gala Dinner Sponsored by CAMECA**
Maaya Indian Kitchen & Bar
The Hub, 2 Rillaton Walk
Milton Keynes, MK9 2FZ



Wednesday 22nd October
Location: Berill Lecture Theatre

09:00-09:30 Registration – Tea/Coffee

Session Chair – Mahesh Anand

09:30-10:00 **Motoo Ito**, JAMSTEC, Japan
Multidisciplinary Applications of the JAMSTEC NanoSIMS

10:00-10:15 **Moni Boruah**, The Open University, UK
Optimising NanoSIMS imaging for high precision chlorine isotope measurements in lunar samples

10:15-10:30 **Ben Rider-Stokes**, The Open University, UK
The water content and isotopic composition of the ureilite parent body

10:30-11:00 Coffee/Tea Break

11:00-11:15 **Liang Gao**, Institute of Geology of Geophysics, Chinese Academy of Sciences, China
Production of oxygen gas converted from silicate decomposition by impacts on the Moon

11:15-11:30 **Mizuho Koike**, Hiroshima University, Japan
NanoSIMS U-Pb dating of Ca-phosphates in differentiated meteorites

11:30-11:45 **Martin Suttle**, The Open University, UK
Isotopic analysis of tochilinite, a challenging hydrated Fe-sulfide in the Winchcombe meteorite: temperature constraints on early-stage aqueous alteration in the CM parent body

11:45-12:00 Closing Remarks
Mahesh Anand, **Katie Moore**

12:00-13:00 Optional - on demand lab tours (in case of over subscription on Tuesday)