

# Structures and Surfaces Group User Meeting 2025

*Diamond Light Source*  
3<sup>rd</sup> – 4<sup>th</sup> November 2025

*Sponsors:*

 **SPECSGROUP**

## Monday 3<sup>rd</sup> November: Plenary presentations

12:30 - 13:25	Arrival, Registration and Lunch		Diamond House Atrium
13:25 - 13:30	Welcome to the SSG User meeting	Cephise Cacho, Diamond Light Source	Diamond House G59
13:30 - 14:10	Moiré Superstructures in Epitaxial 2D Materials	<b>Phil King</b> , University of St Andrews	
14:10 - 14:50	The Interfaces Are the Battery	<b>Louis Piper</b> , University of Warwick	
14:50 - 15:15	Coffee Break		Diamond House Atrium
15:15 - 15:45	I05 Beamline: Diamond-II update and future developments	Timur Kim, Diamond Light Source	Diamond House G59
15:45 - 16:15	I07 Beamline: Diamond-II update and future developments	Francesco Carlà, Diamond Light Source	
16:15 - 16:45	B07 Beamline: Diamond-II update and future developments	Georg Held, Diamond Light Source	
16:45 - 17:15	I09 Beamline: Diamond-II update and future developments	Tien-Lin Lee, Diamond Light Source	
17:15 - 17:30	Break		Diamond House Atrium
17:30 - 18:00	Discussion with users: Diamond-II dark period user activity, what are the expectations for 2030?	Rob Rambo and Sky French, Diamond-II beamlines and software leaders	Diamond House G59
18:00 - 21:00	Poster Session and Dinner		Diamond House Atrium

## Tuesday 4<sup>th</sup> November: Workshop 1 “New opportunities for structural and chemical characterization of surfaces, interfaces and devices”

09:00 -	Welcome and scope of the workshop	Francesco Carlà, Diamond Light Source	Diamond House G59
09:05 -	Probing surface dynamics at the solid-liquid interface	<b>Edvin Lundgren</b> , University of Lund	
09:25 -	Near-ambient pressure XPS and manipulations of 2D materials	<b>James O'Shea</b> , University of Nottingham	
09:45 -	Under Pressure: Accessing Working Catalyst Interfaces with XPS and soft XAS	<b>Rob Weatherup</b> , University of Oxford	
10:05 -	Shining light on electrochemical interfaces	<b>Reshma Rao</b> , Imperial College London	
10:25 -	Insights into the behavior of PtSn catalysts from NAP-XPS and SXRD studies	<b>Lindsay Merte</b> , University of Malmo	
10:45 -	Coffee Break		Diamond House Atrium
11:10 -	Active by Absence: X-ray Signatures of Surface Vacancies in CO <sub>2</sub> and N <sub>2</sub> Hydrogenation	<b>Ryan Wang</b> , University College London	Diamond House G59
11:30 -	A new science case for I07-EH2: an advanced platform for surfaces, interfaces and devices characterisation in real working conditions	Francesco Carlà, Diamond Light Source	
11:50 -	Proposal to upgrade I09 to include hard / soft near ambient pressure end station	<b>Dave Duncan</b> , University of Nottingham	
12:15 -	Lunch Break		Diamond House Atrium
13:30 -	Flash presentations of science cases by participants (1-2 slides, <5 minutes each)	Francesco Carlà, Diamond Light Source	Diamond House G59
14:00 -	Open discussion: Combining spectroscopic and structural techniques for the characterisation of surfaces, interfaces and devices under real working conditions	Francesco Carlà, Georg Held, Tien-Lin Lee, Diamond Light Source	
15:30 -	Summary and final remarks		
16:00	Event end		

## Tuesday 4<sup>th</sup> November: Workshop 2 “Electronic structure of quantum materials”

09:00 - 09:05	Welcome and scope of the workshop	Cephise Cacho, Diamond Light Source	Diamond House G53/54
09:05 - 09:30	Using circular dichroism in angle-resolved photoemission to study magnetic order	<b>Hans-Joachim Elmers</b> , University of Mainz	
09:30 - 09:55	Strong Inter-valley Electron-Phonon Coupling in Magic-Angle Twisted Bilayer Graphene	<b>Yulin Chen</b> , University of Oxford	
09:55 - 10:20	At the Interface: 2D Materials on Template-Stripped Gold	<b>Niel Wilson</b> , University of Warwick	
10:20 - 10:45	Polytypes of tantalum dichalcogenides: what can we learn from spatially- and time-resolved ARPES?	<b>Enrico Da Como</b> , University of Bath	
10:45 - 11:00	Coffee Break		Diamond House Atrium
11:00 - 11:25	Spatially-resolved photoemission at the SGM4 beamline of ASTRID2	<b>Alfred Jones</b> , University of Aarhus	Diamond House G53/54
11:25 - 11:50	Electronic response to a current-induced Mott transition in Ca <sub>2</sub> RuO <sub>4</sub>	<b>Igor Markovic</b> , University of Birmingham	
11:50 - 12:15	Exploring the polar surfaces of MAX and MAB phases using micro-ARPES	<b>Gesa Siemann</b> , University of Aarhus	
12:15 - 13:30	Lunch Break		Diamond House Atrium
13:30 - 13:35	Plans and funding possibilities for new micro-ARPES beamline at Diamond (5')	Cephise Cacho, Diamond Light Source	Diamond House G53/54
13:35 - 13:45	Science trends in micro-ARPES: perspective from the PRP	<b>Anna Tamai</b> , University of Geneva	
13:45 - 14:05	State of the art micro/nanoARPES on I05	Matthew Watson, Diamond Light Source	
14:05 - 15:55	Collective ARPES Strategic: new micro-ARPES beamline and I05/I09 beamlines future	<b>Phil King</b> , University of St Andrews	
15:55 - 16:00	Summary and final remarks		
16:00	Event end		Diamond House Atrium