

Chemical Nanoscience and Nanotechnology Interest Group Annual Symposium

Monday 15th January 2024

12:00	Registration
12:55	Welcome and Introductions
13:00	Plenary Lecture George Malliaras "Thin film technology for bioelectronic medicine"
13:45	Invited Lecture Associate Professor George Sotiriou "Engineering nanostructured materials for biomedicine by aerosol processes"
14:20	Talk Dr Philip D. Howes "Microfluidic systems for high-throughput and data-rich nanomaterials chemistry"
14:40	Talk Dr Maria J. Marin "Two-photon fluorescent (nano)probes for a versatile intracellular detection and quantification of nitric oxide"
15:00	Sponsor Presentation Goodfellow
15:10	Afternoon Tea
15:40	Sponsor Presentation PerkinElmer
15:50	Invited Lecture Professor Neil Robertson "Asymmetric Supercapacitors using Hybrid Bi and Ni-based Materials"
16:25	Invited Lecture Associate Professor Ljiljana Fruk "Organic nanocarriers in biomedicine: Design principles and translational challenges"
16:00	Talk Dr Jonathan Foster "Liquid exfoliation of molecular materials into nanosheets"
16:20	Talk Dr Robert Menzel "Hierarchical graphene-based aerogel catalysts and sorbents"
16:40	Invited Lecture Professor Petra Rudolf "From solution to surface: applying supramolecular chemistry principles for device manufacturing through molecular self-assembly"
17:15	Poster Session
18:15	Close of Session
19:00	Conference Dinner

Tuesday 16th January 2024

8:45	Coffee and Refreshments
9:00	Plenary Lecture Professor Valeria Nicolosi “Processing of liquid-phase exfoliated 2D nanomaterials devices”
9:45	Invited Lecture Professor Yvonne Perrie “Formulation and manufacture of nanoparticles – what are the key considerations?”
10:20	Talk Dr Marziyeh Jannesari “Innovative Strategies for Combating Bacterial Contamination: Synergistic Effects of Oxygen Nanobubbles and Reduced Graphene Oxide”
10:40	Talk Dr Andrew Surman “Rapid low-cost characterisation of graphene-based materials to address the challenges of inhomogeneity and irreproducibility”
11:00	Morning Tea
11:30	Invited Lecture Professor George Christou “Bottom-up molecular routes to ultra-small (1 - 3 nm) nanoparticles of important metal oxides: ‘molecular nanoparticles’”
12:05	Talk Dr Anna Fantinati “Functionalized gold nanoparticles as an anchor to detect Coronavirus infection”
12:25	Talk Aine Coogan “Towards recyclable 2D material-based nanofiltration membranes for water purification”
12:45	Lunch and Posters
13:45	Talk Lauren Evans “Versatile vigilantes: Exploiting the intrinsic properties of hybrid nanoparticles for drug delivery”
14:05	Talk Muhamad Hartono “Non-invasive detection of chemotherapy-induced senescence in lung cancer via enzyme-targeting nanoprobe”
14:25	Prizes and Closing Remarks