



ICfE - 12

MANCHESTER 2026

6th – 10th SEPTEMBER

CONFERENCE PROGRAM



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Welcome to the 12th International Conference on f-Elements (ICfE-12)

The ICfE has long served as a leading conference for advancing our understanding of the f-elements, spanning coordination and organometallic chemistry, catalysis and reactivity, magnetism, spectroscopy, imaging, therapy and health, energy conversion, production and storage, and resources and sustainability areas.

Previous ICfE meetings have been held in Leuven, Helsinki, Paris, Madrid, Geneva, Wroclaw, Köln, Udine, Oxford, Lausanne, and Strasbourg. This year we are delighted to continue that proud tradition in Manchester, a city that, one way or another, brought you the atom and modern atomic theory.

We are delighted to offer an inspiring scientific program organised around seven themes that all highlight frontier discoveries and newly emerging directions. From the outset, we were clear that we wanted to showcase a diverse mix of f-element chemistry and bordering areas. Therefore, the program is assembled from a healthy mix of researchers, spanning well-known names to those for whom ICfE-12 will be their first ICfE, and everyone in between, across a range of familiar and perhaps not always so familiar areas.

Beyond the formal sessions, we encourage you to take the opportunity to meet new people, exchange ideas, and maybe establish new collaborations as well and reconnect with colleagues. We are very pleased to host so many early career researchers; they are the future, and so we warmly encourage you to fully embrace the poster sessions on the Monday and Tuesday evenings and let the discussion flow freely.

Manchester is known as the world's first industrial city, and over the centuries has evolved into a diverse, culturally rich, and vibrant contemporary city. There is something for everyone, so we encourage you to enjoy the amenities that it has to offer while you are here.

As representatives of a place that is known to do a bit of f-element chemistry from time to time, we heartily welcome you to Manchester and the ICfE-12. We look forward to sharing rich scientific discussions and collegiate debate, and above all, your company. In advance, we thank you for contributing to what we anticipate will be a stimulating, successful, and memorable 12th ICfE meeting.

The Organising Committee



Conrad
Goodwin



Nikolas
Kaltsoyannis



Steve
Liddle



David
Mills



Louise
Natrajan

Programme Overview

Each day is divided into a mix of plenary talks (**Theatre A**) and parallel sessions (**Theatre A | Theatre B | Blended Lecture Theatre**). An overview of the timings is given below. Scan the QR code to check for the most up-to-date version of the full programme, or visit: <https://www.icfe12.manchester.ac.uk/programme/>

	Sunday 6th Sept.
14:00–16:30	Registration
16:30–17:00	Opening Remarks
17:00–18:00	Lecoq de Boisbaudran Award
18:00–20:00	Welcome Reception



	Monday 7th Sept.	Tuesday 8th Sept.	Wednesday 9th Sept.	Thursday 10th Sept.
08:30–09:00	Tea and Coffee	Tea and Coffee	Tea and Coffee	Tea and Coffee
09:00–10:00	Plenary	Plenary	Plenary	Plenary
10:00–10:30	Refreshments	Refreshments	Refreshments	Refreshments
10:30–11:00	Keynote	Keynote	Keynote	Keynote
11:00–11:25	Invited Lecture	Invited Lecture	Invited Lecture	Invited Lecture
11:25–11:45	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk
11:45–12:05	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk
12:05–12:25	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk
12:30–13:30	Lunch	Lunch	Lunch	Lunch
13:30–14:00	Keynote *	Keynote	Keynote	Keynote
14:00–14:25	Invited Lecture	Invited Lecture	Invited Lecture	Invited Lecture
14:25–14:45	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk
14:45–15:05	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk
15:10–15:40	Refreshments	Refreshments	Refreshments	Refreshments
15:40–16:10	Keynote	Keynote	Keynote	Keynote
16:10–16:35	Invited Lecture	Invited Lecture	Invited Lecture	Invited Lecture
16:35–16:55	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Contrib. / Inv. Talk
16:55–17:15	Contrib. / Inv. Talk	Contrib. / Inv. Talk	Plenary (17:00–18:00)	Contrib. / Inv. Talk
17:15–17:35	Contrib. / Inv. Talk	Contrib. / Inv. Talk		
Evenings	Poster Session (18:00–20:00)	Conference Photo (17:35–18:00) Poster Session (18:00–20:00)	RE Lecture (18:10–18:45) ERES Meeting (18:45–19:15)	Closing Remarks (17:20–17:50) Gala Dinner (19:00–23:30)

* ERES Junior Award Lecture during parallel session.

This event aligns with the UK Equality Act 2010, the University of Manchester's Dignity at Work and Study Policy, and our shared commitment to equity and inclusion. We ask all participants to help maintain a respectful, inclusive, and safe environment. If you feel uncomfortable at any time, please speak to a member of the team for support, or email ICFE12@manchester.ac.uk for confidential assistance. Breaches of these expectations will be addressed to uphold our values.

International Advisory Board

Matthew Allen – *Wayne State University* (USA)
Jesper Bendix – *University of Copenhagen* (Denmark)
Helen Bolvin – *Université Paul Sabatier, Toulouse* (France)
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European Rare Earth and Actinide Society (ERES) Prize Award Lecture Winners



Lecoq de Boisbaudran Award Winner 2026

Professor William Evans

University of California, Irvine

Sunday 6th Sept. 17:00–18:00 | Theatre A

Recent Reductive Chemistry of Complexes of the Rare-Earth and Actinide Metals



ERES Junior Award Winner 2026

Dr Bianca Schacherl

Institute of Nuclear Waste Disposal, Karlsruhe Institute of Technology

Monday 7th Sept. 13:30–14:00 | Theatre A

The Lanthanum/Actinium case – what developments in advanced spectroscopic techniques can reveal for nuclear medicine

Plenary Speakers



Professor Stephen Hill, *Florida State University*

Monday 7th Sept. 09:00–10:00 | Theatre A

Molecularly Trapped f-Element Qubits



Professor Thomas Albrecht, *Colorado School of Mines*

Tuesday 8th Sept. 09:00–10:00 | Theatre A

High-Pressure Routes to Redox with Lanthanides and Actinides



Professor Stephanie Dehnen, *Karlsruhe Institute of Technology*

Wednesday 9th Sept. 09:00–10:00 | Theatre A

Multimetallic Clusters: p- and f-Block Metal Atoms in Concert



Professor Jun Li, *Tsinghua University*

Wednesday 9th 17:00–18:00 | Theatre A

Modelling and Simulations of f-Element Clusters, Solutions and Molten Salts



Professor Eszter Borbas, *Uppsala University*

Thursday 10th Sept. 09:00–10:00 | Theatre A

Lanthanide Photocatalysis for Organic Synthesis and Small-Molecule Activation

Sunday – 6th Sept.

Registration

Ground floor events space | 14:00–16:30

Registration Desk Opens

A registration and information desk will remain open throughout the conference. Collect your conference badge and welcome bag.

Opening Remarks

Theatre A | 16:30–17:00

Lecoq de Boisbaudran Award Prize Lecture

Theatre A | 17:00–18:00 Chair: Liddle, S.

Lecoq de Boisbaudran Award Prize Lecture

Evans, W., *University of California, Irvine*

Recent Reductive Chemistry of Complexes of the Rare-Earth and Actinide Metals

Welcome Reception

Ground floor events space | 18:00–20:00

Monday – 7th Sept.

Plenary 1: Hill, S. “Molecularly Trapped f-Element Qubits”

Theatre A | 09:00–10:00 Chair: Mills, D.

Session 1A: Coordination and organometallic chemistry (T1_1)

Theatre A | 10:30–12:25 Chair: Emerson-King, J.

10:30–11:00 Keynote

Roesky, P., Karlsruhe Institute of Technology, Germany

Lanthanide Complexes with π -Coordinated Heterocycles

11:00–11:25 Invited Lecture

Hayton, T., University of California, Santa Barbara, USA

Using NMR Spectroscopy to Evaluate Actinide-Ligand Bond Covalency

11:25–11:45 Contributed

Reynolds, E., Karlsruhe Institute of Technology, Germany

Oxidation State Controlled Bonding Properties in Ce^{III} and Ce^{IV} Tris(amidinate) Complexes

11:45–12:05 Contributed

Branson, J., Karlsruhe Institute of Technology, Germany

Uranium 5f Orbital Localization in UX₆⁻ Investigated by Resonant Inelastic X-ray Scattering Techniques and Electronic Structure Calculations

12:05–12:25 Invited Talk

Hu, H., Tsinghua University, China

Theoretical Design and Machine-Learning Discovery of Fullerene-Mimetic Actinide Materials across Scales

Session 1B: Spectroscopy (T4_1)

Theatre B | 10:30–12:25 Chair: Kerridge, A.

10:30–11:00 Keynote

Sørensen, T.J., University of Copenhagen, Denmark

Understanding the 4f Electronic Structure: A Pathway to Next-Generation Physical Unclonable Functions

11:00–11:25 Invited Lecture

Baker, M., University of Manchester, UK

Quantifying d-orbital contributions to electronic structure and bonding in the f-block with X-ray spectroscopy

11:25–11:45 Contributed

Artizzu, F., Università del Piemonte Orientale, Italy

Unlocking new functionalities through mutual lanthanide-antenna interaction in luminescent lanthanide molecular materials

11:45–12:05 Contributed

Grasser, M., University of Manchester, UK

First-principles prediction of inhomogeneous optical broadening

12:05–12:25 Invited Talk

Ung, G., University of Connecticut, USA

What contributes most to circularly polarized luminescence metrics in lanthanides: primary coordination sphere or chromophore geometry?

Session 1C: Resources and sustainability (T7_1)

GA.056 | 10:30–12:25 Chair: Love, J.

10:30–11:00 Keynote

Abergel, R., Lawrence Berkeley National Laboratory, USA

Bio-Inspired Metallophore Design: Resolving the Coordination Framework for Microbial Lanthanide Sequestration and Biomining

11:00–11:25 Invited Lecture

Kaye, P., AWE, UK

Developments in accelerating and improving plutonium analysis at the AWE

11:25–11:45 Contributed

de Bettencourt-Dias, A., University of Nevada, Reno, USA

Low Energy Excitation of Lanthanide-centered Emission for Bioimaging

11:45–12:05 Invited Talk

Murphy, S., Lancaster University, UK

Understanding the defect chemistry of PuO₂

12:05–12:25 Contributed

Sittel, T., Karlsruhe Institute of Technology, Germany

Impact of Electronic Modulation on Coordination and Separation Chemistry of f-Elements

Session 2A: Coordination and organometallic chemistry (T1_2)

Theatre A | 13:30–15:05 Chair: Matson, E.

13:30–14:00 Keynote

Zhu, C., Nanjing University, China

Uranium-Metal Multiple Bonds Supported by Double-Layer N-P Ligands

14:00–14:25 Invited Lecture

Cahill, C., George Washington University, USA

Solid-state photoreactivity in actinyl based hybrid materials

14:25–14:45 Contributed

Beyler, M., Univ Bretagne Occidentale, UMR-CNRS 6521 CEMCA, France

Pycen-based Lanthanide Chelates for Imaging & Therapy: Design and Applications

14:45–15:05 Contributed

Bridonneau, N., University Paris Saclay / CNRS, France

Redox-active lanthanide magnetic complexes

Session 2B: Spectroscopy (T4_2)

Theatre B | 13:30–15:05 Chair: Baker, M.

13:30–14:00 ERES Junior Award Lecture

Schacherl, B., Karlsruhe Institute of Technology, Germany

The Lanthanum/Actinium case – what developments in advanced spectroscopic techniques can reveal for nuclear medicine

14:00–14:25 Invited Lecture

Hildebrandt, N., McMaster University, Canada

Lanthanides and FRET are Like Whiskers on a Cat!

14:25–14:45 Contributed

Schiferl, M., University of California, Berkeley, USA

First Measurements of Protactinium with Laser-Induced Breakdown Spectroscopy

14:45–15:05 Contributed

Shuttleworth, S., Allied Spectra / Datech (Ltd), UK

From Rock to Reactor: Modern Analytical Strategies for the Elemental Analysis of Lanthanides and Actinides

Session 2C: Imaging, therapy and health (T5_1)

GA.056 | 13:30–15:05 Chair: Fieser, M.

13:30–14:00 Keynote

Nonat, A., CNRS / Strasbourg University, France

Molecular up-conversion in solution with heterometallic Ln-coordination complexes and molecular clusters

14:00–14:25 Invited Lecture

Parker, D., Hong Kong Baptist University, Hong Kong SAR

Europium probes for pH, temperature and proteins

14:25–14:45 Contributed

Alexander, C., Hong Kong Baptist University, Hong Kong SAR

Chiral cyclen-based lanthanide complexes for MRSI and MRI

14:45–15:05 Contributed

Patra, A., Indian Institute of Technology Kanpur, India

Selective Recognition and Perturbation of Energy Transfer Pathways for Designing Luminescent Lanthanide Probes for Physiological Phosphates

Session 3A: Coordination and organometallic chemistry (T1_3)

Theatre A | 15:40–17:35 Chair: Chatelain, L.

15:40–16:10 Keynote

Furche, F., University of California, Irvine, USA

Computational f-Element Chemistry

16:10–16:35 Invited Lecture

Peacock, A., University of Birmingham, UK

Expanding the f-Element Toolbox with Peptide Coiled-Coil Ligands: New Opportunities for MRI Contrast Agent Design

16:35–16:55 Contributed

Huh, D., University of Rhode Island, USA

Tuning M···M Distances in Bimetallic f-Element Complexes via Dispersion Forces

16:55–17:15 Contributed

Gericke, R., Helmholtz-Zentrum Dresden-Rossendorf, Germany

Magnetic Coupling in Heterobimetallic Np(IV)/Fe(III) Alkoxide Complexes

17:15–17:35 Invited Talk

Emerson-King, J., University of Manchester, UK

High-performance Dy(III) single-molecule magnets with silylamide ligands

Session 3B: Energy conversion, production and storage (T6_1)

Theatre B | 15:40–17:35 Chair: Abergel, R.

15:40–16:10 Keynote

Matson, E., University of Rochester, USA

Actinide Complexes of Molybdenum Chalcogenide Clusters

16:10–16:35 Invited Lecture

Amidani, L., Helmholtz-Zentrum Dresden-Rossendorf, Germany

Survey on some systematic trends in actinide M_4 -edge HERFD XANES

16:35–16:55 Contributed

Stuke, K.D., Forschungszentrum Jülich GmbH, Germany

New insights into aging and oxidation processes of AnO_2 based nanostructured model materials under different conditions

16:55–17:15 Contributed

Marvaud, V., Sorbonne Université, France

Synthesis of multifunctional coordination dendrimers through a supramolecular approach

17:15–17:35 Contributed

Kreidt, E., TU Dortmund University, Germany

Lanthanoid dipicolinates as responsive lanthanoid luminophores

Session 3C: Catalysis and reactivity (T2_1)

GA.056 | 15:40–17:35 Chair: Hohloch, S.

15:40–16:10 Keynote

Fieser, M., University of Southern California, USA

Combining f-Elements and Polymers to Address Sustainability Challenges

16:10–16:35 Invited Lecture

Robinson, J., Brown University, USA

Hard Reactions Made Easy – Leveraging Hard Bases & Hard Acids for New Mechanisms and Reactivity Patterns at Rare-Earth Elements

16:35–16:55 Contributed

Thakur, S.K., FAU Erlangen-Nürnberg, Germany

Synthesis, structure and reactivity of Mg^0 -Yb^{II} Complexes

16:55–17:15 Invited Talk

Ortu, F., University of Leicester, UK

New rare earth iminophosphoranomethanide complexes: synthesis, characterisation and applications

17:15–17:35 Contributed

Chartier, C., CP2M CNRS, France

Influence of the 4f-3d Metal Pairs on the Synthesis, Properties and Reactivity of Heterobimetallic Siloxide Complexes

Poster Session 1

Ground floor events area | 18:00–20:00

Tuesday – 8th Sept.

Plenary 2: Albrecht, T. “High-Pressure Routes to Redox with Lanthanides and Actinides”
Theatre A | 09:00–10:00 Chair: Goodwin, C.

Session 4A: Coordination and organometallic chemistry (T1_4)

Theatre A | 10:30–12:25 Chair: Clark, D.

10:30–11:00 Keynote

Vlaisavljevich, B., University of Iowa, USA

Exploring tetrahedral ligand fields in f-element complexes

11:00–11:25 Invited Lecture

Vitova, T., Karlsruhe Institute of Technology, Germany

The role of halides in the bonding and electronic structure of actinyl(VI) halides – energy match driven stability

11:25–11:45 Contributed

Blais, C., INSA Rennes, France

Rational Design of Luminescent Lanthanide Coordination Polymers: Structural Organization and Thermodynamic Insights

11:45–12:05 Contributed

Loutsch, N., University of Iowa, USA

Assessing covalency in f-element hydride complexes

12:05–12:25 Contributed

Gawryszewska, P., University of Wrocław, Poland

Unusual photophysical behavior of homo- and heterobinuclear lanthanide compounds generated by short Ln–O–Ln bridges

Session 4B: Magnetism (T3_1)

Theatre B | 10:30–12:25 Chair: Perfetti, M.

10:30–11:00 Keynote

Murugesu, M., University of Ottawa, Canada

Design and Synthesis of Organometallic Compounds for Magneto-Optical Thermometry

11:00–11:25 Invited Lecture

Chilton, N., Australian National University, Australia

Modelling vibrational and optical spectra of rare earth materials

11:25–11:45 Contributed

Ashraful Islam, M., University of Manchester, UK

First-Principles Study of Magnetic Exchange and Relaxation in the Radical-Bridged Lanthanide Complexes

11:45–12:05 Contributed

Lecourt, C., Sorbonne Université, CNRS, Institut Parisien de Chimie Moléculaire, France

Synergistic Photo-Magnetic Effect in Multifunctional Hetero-Poly-Metallic Complexes

12:05–12:25 Contributed

Tacconi, L., University of Florence, Italy

Tuning Spins with Electric Fields: Anisotropic Spin-Electric Coupling in a Chiral Dy(III) Complex

Session 4C: Catalysis and reactivity (T2_2)

GA.056 | 10:30–12:25 Chair: Vondung, L.

10:30–11:00 Keynote

Sadow, A., Iowa State University, USA

Lanthanide-catalyzed Hydrocarbon Functionalizations

11:00–11:25 Invited Lecture

Eisen, M., Technion - Israel Institute of Technology, Israel

Organoactinides Promoting the Catalytic Dearomatization and Ring Opening of Benzoxazoles and the Deoxygenations Cleavage of Ureas

11:25–11:45 Contributed

Jaroschik, F., Institut Charles Gerhardt Montpellier, France

Selective C-P bond cleavage with lanthanides: synthetic applications and mechanistic understanding

11:45–12:05 Invited Talk

Simler, T., École Polytechnique, France

H₂ Splitting and N₂ Hydrogenation Induced by a Divalent Lutetium Complexes

12:05–12:25 Contributed

Brackbill, J., University of California, Berkeley, USA

New Actinide Halide Solvates Provide Access to Rare Structural Motifs, Including a Lewis Acid-Capped trans-Dioxo Thorium Complex

Session 5A: Coordination and organometallic chemistry (T1_5)

Theatre A | 13:30–15:05 Chair: Schelter, E.

13:30–14:00 Keynote

Gaunt, A., Los Alamos National Laboratory, USA

Advances in Molecular Synthetic Transuranium Chemistry

14:00–14:25 Invited Lecture

Bodensteiner, M., University of Regensburg, Germany

How can modern crystallography benefit f-element chemists?

14:25–14:45 Contributed

Stanley, D., University of California, Berkeley, USA

BLPhen Rigidity and Preorganization Enables Selective Actinium Extraction

14:45–15:05 Contributed

Morris-Yao, J., Rigaku Europe

Advanced X-ray Crystallographic Techniques for f-Element Materials Discovery

Session 5B: Spectroscopy (T4_3)

Theatre B | 13:30–15:05 Chair: Kofod, N.

13:30–14:00 Keynote

Perfetti, M., *University of Florence, Italy*

Determination of Magnetic Anisotropy in f-elements Complexes

14:00–14:25 Invited Lecture

Clark, D., *Los Alamos National Laboratory, USA*

Oxygen K-edge XAS and theoretical studies of $M_2AnO_2Cl_4$ (An = U, Np, Pu; M = Cs⁺, Me₄N⁺).

14:25–14:45 Contributed

Lee, D., *University of Manchester, UK*

When do f-orbitals participate in bonding? f-element covalency from NMR spectroscopy and quantum chemical calculations

14:45–15:05 Contributed

Bailey, A., *University of Glasgow, UK*

Performing Single Molecule Spectroscopy on Aggregates of the Lanthanide β -diketonate complex Eu(hfac)₃(pd)

Session 5C: Imaging, therapy and health (T5_2)

GA.056 | 13:30–15:05 Chair: Allen, M.

13:30–14:00 Keynote

Harvey, P., *University of Nottingham, UK*

PARASHIFT agents towards multichannel MR sensing and cell tracking

14:00–14:25 Invited Lecture

Pikramenou, Z., *University of Birmingham, UK*

Luminescent Lanthanide Architectures in Detection: from Supramolecular Designs to Nanoparticles

14:25–14:45 Contributed

Pradhan, S., *Indian Institute of Technology Kanpur, India*

Luminescent Chemodosimetric Eu(III) Probe for Early Detection of Nitroreductase in Live Bacteria

14:45–15:05 Contributed

Liu, Z., *Peking University, China*

Targeted Metal Vitamin for Radiotherapy-Activable Drug Delivery

Session 6A: Coordination and organometallic chemistry (T1_6)

Theatre A | 15:40–17:35 Chair: Murugesu, M.

15:40–16:10 Keynote

La Pierre, H., Georgia Institute of Technology, USA
High-Oxidation State Lanthanide Coordination Chemistry

16:10–16:35 Invited Lecture

Altman, A., Texas A&M University, USA
Unexpected bonds under extreme conditions: high-pressure f-element chemistry

16:35–16:55 Contributed

Demonti, L., EPFL, Switzerland
Stabilization of High-Valent Lanthanide Species with Oxo-Ligands

16:55–17:15 Contributed

Diaz-Ortega, I.F., Universidad de Almería, Spain
Exploring the Coordination Capacity of 1,3,5-Triaza-7-phosphaadamandate derivatives with Lanthanides: A novel Approach to Luminescent Complexes

17:15–17:35 Contributed

Sickinger, A., CNRS IPHC Strasbourg, France
Introducing Chirality to Nonanuclear Lanthanide Clusters for Upconversion Emission

Session 6B: Catalysis and reactivity (T2_3)

Theatre B | 15:40–17:35 Chair: Sadow, A.

15:40–16:10 Keynote

Procter, D., University of Manchester, UK
Samarium(II) iodide radical relay catalysis

16:10–16:35 Invited Lecture

Walter, O., European Commission, Joint Research Centre, EU
[$\text{Np}^{\text{IV}}(\text{Tren}^{\text{TIPS}})\{\text{N}(\text{H})\text{SiMe}_3\}]$ and [$\text{Np}^{\text{IV}}(\text{Tren}^{\text{TIPS-2H}})\{\text{N}(\text{H})\text{SiMe}_3\}]$: NMR spectroscopic investigation and its mechanistic relevance

16:35–16:55 Invited Talk

Vondung, L., University of Hamburg, Germany
Uranium Complexes with Hard/Soft Hybrid Ligands

16:55–17:15 Contributed

Griffin, L., University of Manchester, UK
Divalent Scandium Anions Bearing Heterocyclic Ligands: Synthesis and Electronic Structure

17:15–17:35 Contributed

Batov, M., EPFL, Switzerland
Catalytic and stoichiometric stepwise conversion of side-on bound N_2 to NH_3 mediated by a uranium complex

Session 6C: Imaging, therapy and health (T5_3)

GA.056 | 15:40–17:35 Chair: Pikramenou, Z.

15:40–16:10 Keynote

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16:10–16:35 Invited Lecture

Allen, M., *Wayne State University, USA*

Slowing the Oxidation of Divalent Europium in Aerated Solutions with Phosphonates

16:35–16:55 Contributed

Butler, S., *Loughborough University, UK*

Luminescent Lanthanide Probes Enabling Selective Recognition of Biological Phosphates for Bioassays and Imaging†

16:55–17:15 Contributed

Sarson, E., *University of Oxford, UK*

Flipping the Eu(III/II) Relaxivity Switch with Biology: towards Magnetic Resonance Imaging of Dynamic Oxygen Levels

17:15–17:35 Contributed

Seneque, O., *Laboratoire de Chimie et Biologie des Métaux, Univ. Grenoble Alpes, CNRS, CEA, France*

Visible and NIR Microscopy Imaging of Live Cells with Luminescent Lanthanide(III) and Peptide Conjugates

Poster Session 2

Ground floor events space | 18:00–20:00

Wednesday – 9th Sept.

Plenary 3: Dehnen, S. "Multimetallic Clusters: p- and f-Block Metal Atoms in Concert"
Theatre A | 09:00–10:00 Chair: Liddle, S.

Session 7A: Coordination and organometallic chemistry (T1_7)

Theatre A | 10:30–12:25 Chair: Huang, W.

10:30–11:00 Keynote

März, J., Helmholtz-Zentrum Dresden-Rossendorf, Germany

Why An(IV) complexes require an interplay of analysis in solid state and solution in combination with quantum chemistry

11:00–11:25 Invited Lecture

Bart, S., Purdue University, USA

New f-Element Complexes Bearing Multiple Bonds to Main Group Elements

11:25–11:45 Invited Talk

Réant, B., University of Manchester, UK

f-Element Redox Chemistry Within Conserved Ligand Environments

11:45–12:05 Contributed

Li, M., University of Melbourne, Australia

Homoleptic Trivalent and Tetravalent Lanthanoid Complexes with Redox-Active Ligands: Elucidation of Electronic Structure

12:05–12:25 Contributed

Fréroux, Y., Univ Lyon, CNRS, ENS de Lyon, France

Beyond the antenna effect: unravelling excited states dynamics in luminescent triazacyclononane lanthanide(III) complexes.

Session 7B: Spectroscopy (T4_4)

Theatre B | 10:30–12:25 Chair: Autschbach, J.

10:30–11:00 Keynote

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11:00–11:25 Invited Lecture

Vallet, V., Université de Lille, France

Electronic Structure of Protactinium(V) and Uranyl Complexes from High-Resolution X-ray Spectroscopy and Relativistic Theory

11:25–11:45 Contributed

Morgan, H., University of Manchester, UK

The solid-state chemistry of thorium-229 nuclear clocks

11:45–12:05 Contributed

Adebayo, V., Université de Toulouse, France

Probing the Magnetic Properties of Actinide Complexes Using Paramagnetic NMR

12:05–12:25 Invited Talk

Huittinen, N., Freie Universität Berlin, Germany

Curium luminescence spectroscopy in crystalline solid phases

Session 7C: Catalysis and reactivity (T2_4)

GA.056 | 10:30–12:25 Chair: Maron, L.

10:30–11:00 Keynote

Mazzanti, M., EPFL, Switzerland

Expanding f-Block Chemistry with Siloxide and Pincer Ligands

11:00–11:25 Invited Lecture

Walter, M., TU Braunschweig, IAAC, Germany

f-Element complexes with sterically demanding pentadienyl complexes

11:25–11:45 Contributed

Bousrez, G., Aarhus University, Denmark

Generation of anhydrous lanthanide compounds $[\text{C}_4\text{C}_1\text{Im}]_3[\text{LnCl}_6]$ using elemental lanthanides in ionic liquid

11:45–12:05 Invited Talk

Du, J., Zhengzhou University, China

f-Element Pnictogen Chemistry Supported by Cyclohexyltriamide Ligands

12:05–12:25 Contributed

Nadurata, V., Karlsruhe Institute of Technology, Germany

The missing isomer of $[\text{Bi}_6]^{6-}$ captured by rare-earth-cyclopentadienyl fragments

Session 8A: Magnetism (T3_2)

Theatre A | 13:30–15:05 Chair: Du, J.

13:30–14:00 Keynote

Minasian, S., Lawrence Berkeley National Laboratory, USA

Unraveling Valence Orbital Hybridization in F-Element Electronic Structure

14:00–14:25 Invited Lecture

Zheng, Y.Z., Xi'an Jiaotong University, China

Regulating Lanthanide Single-Molecule Magnets with Coordination Geometry and Organometallic Chemistry

14:25–14:45 Contributed

Caussin, L., Université de Rennes, France

Photoswitchable dithienylethene nitronylnitroxide radicals and their association with anisotropic lanthanide ions

14:45–15:05 Contributed

Atzori, M., Laboratoire National des Champs Magnétiques Intenses, CNRS, Grenoble, France

Magneto-Chiral Dichroism of Chiral Lanthanide Complexes

Session 8B: Spectroscopy (T4_5)

Theatre B | 13:30–15:05 Chair: Oakley, M.

13:30–14:00 Keynote

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14:00–14:25 Invited Lecture

Faulkner, S., University of Oxford, UK

Lighting the way: chemical and physical control of lanthanide behaviour

14:25–14:45 Contributed

Shin, A., Max Planck Institute for the Science of Light, Germany

Narrow optical transitions in molecules for quantum applications

14:45–15:05 Contributed

Bray, J., Edinburgh Instruments, UK

Advanced Luminescence Spectroscopy: From Picoseconds to Seconds, UV to NIR

Session 8C: Catalysis and reactivity (T2_5)

GA.056 | 13:30–15:05 Chair: Mazzanti, M.

13:30–14:00 Keynote

Hohloch, S., *University of Innsbruck, Austria*

Heavy Cyanate Chemistry at the Edge of the Periodic Table

14:00–14:25 Invited Lecture

Junk, P., *James Cook University, Australia*

New innovations in redox transmetallation chemistry involving rare earth metals

14:25–14:45 Invited Talk

Seed, J., *University of Manchester, UK*

New Actinide-Bismuth Bonding Motifs

14:45–15:05 Invited Talk

Popov, I., *Washington State University, USA*

Orbital Energy Matching in An-Imidophosphoranes: Increasing Covalency and Divergent PCET Reactivity from U to Pu

Session 9A: Coordination and organometallic chemistry (T1_8)

Theatre A | 15:40–16:55 Chair: La Pierre, H.

15:40–16:10 Keynote

Huang, W., *Peking University, China*

Unconventional oxidation state chemistry of f-elements

16:10–16:35 Invited Lecture

Windorff, C., *New Mexico State University, USA*

Structural Variation in Organometallic Uranium–Main Group Clusters

16:35–16:55 Contributed

Guo, Z., *James Cook University, Australia*

Mixed Valent Calix[4]pyrrolide lanthanoid complexes

Session 9B: Spectroscopy (T4_6)

Theatre B | 15:40–16:55 Chair: Réant, B.

15:40–16:10 Keynote

Autschbach, J., *University at Buffalo (SUNY), USA*

Computational Studies of Chemical Bonding vs. Spectroscopic Properties of f-Element Complexes

16:10–16:35 Invited Lecture

Sanchez, S., *Université de Strasbourg, France*

Driving molecular Upconversion with molecular wheels

16:35–16:55 Invited Talk

Oakley, M., *University of Manchester, UK*

Simulating Actinide X-ray Spectroscopy with Multiconfigurational Methods

Session 9C: Catalysis and reactivity (T2_6)

GA.056 | 15:40–16:55 Chair: Seed, J.

15:40–16:10 Keynote

Maron, L., Université Toulouse III – Paul Sabatier, France

A theoretical insight onto small molecules activation and f-element photochemistry

16:10–16:35 Invited Lecture

Walensky, J., University of Missouri, Columbia, USA

Thorium and Heterocycles: A Ring Opening Experience

16:35–16:55 Contributed

Renard, S., Brown University, USA

Correlating Structure and Function of Lanthanide Reactive Oxygen Species

Plenary 4: Li, J.

“Modelling and Simulations of f-Element Clusters, Solutions and Molten Salts”

Theatre A | 17:00–18:00 Chair: Kaltsoyannis, N.

Rare Earths with Jean-Claude Bünzli

Theatre A | 18:10–18:45

Bünzli, J.C., EPFL/PolyU HK, Switzerland

Rare earths: from gas lamps to optical computers and geopolitics

ERES Meeting

Theatre A | 18:45–19:15

European Rare Earth and Actinide Society General Council

ERES finances, ICFE-13 and other business

Thursday – 10th Sept.

Plenary 5: Borbas, E.

“Lanthanide Photocatalysis for Organic Synthesis and Small-Molecule Activation”

Theatre A | 09:00–10:00 Chair: Natrajan, L.

Session 10A: Coordination and organometallic chemistry (T1_9)

Theatre A | 10:30–12:25 Chair: Daly, S.

10:30–11:00 Keynote

Arnold, P., *Lawrence Berkeley National Laboratory, USA*

Organometallic Actinide Chemistry from Th to Bk

11:00–11:25 Invited Lecture

Knope, K., *Georgetown University, USA*

From molecules to materials: The formation, structure, and reactivity of f-element oxo clusters

11:25–11:45 Contributed

Tsushima, S., *Helmholtz-Zentrum Dresden-Rossendorf, Germany*

Chelator optimization for ²³⁰U radiopharmaceuticals: the path to targeted alpha therapy

11:45–12:05 Contributed

Jin, P.B., *University of Manchester, UK*

Lanthanide(II) and (III) Amidinate-Based Single-Molecule Magnets

12:05–12:25 Contributed

Ross, J., *Helmholtz-Zentrum Dresden-Rossendorf, Germany*

Ligand-Loading Dependent Speciation and Paramagnetic Chemical Shift Analysis in Actinide Quinolate Systems

Session 10B: Spectroscopy (T4_7)

Theatre B | 10:30–12:25 Chair: Ung, G.

10:30–11:00 Keynote

McInnes, E., *University of Manchester, UK*

EPR Studies of Molecular Actinide Organometallics

11:00–11:25 Invited Lecture

Kerridge, A., *Lancaster University, UK*

Active Space Simulations of the X-ray Absorption Properties of Actinyls

11:25–11:45 Invited Talk

Kofod, N., *University of Manchester, UK*

Non-Radiative Energy Transfers in Lanthanide Photophysics

11:45–12:05 Contributed

Nielsen, V.R.M., *University of Copenhagen, Denmark*

Revised Energy Levels of Trivalent Lanthanide Ions in Solution

12:05–12:25 Contributed

Le Guennic, B., *Université de Rennes, France*

Modelling chiroptical phenomena in lanthanide complexes: from Circularly Polarized Luminescence to Magneto-Chiral Dichroism

Session 10C: Resources and sustainability (T7_2)

GA.056 | 10:30–12:25 Chair: Wilson, R.

10:30–11:00 Keynote

Cotruvo, Jr., J., *The Pennsylvania State University, USA*

Unearthing lanthanide biochemistry for rare-earth separations

11:00–11:25 Invited Lecture

Rajaraman, G., *Indian Institute of Technology Bombay, India*

AI/ML-Driven Discovery of Lanthanide-Based Single-Molecule and Toroidal Magnets: Theory Meets Experiment

11:25–11:45 Invited Talk

Stumpf, T., *Helmholtz-Zentrum Dresden-Rossendorf, Germany*

Actinide Chemistry at HZDR

11:45–12:05 Contributed

Drobot, B., *Helmholtz-Zentrum Dresden-Rossendorf, Germany*

Structure–Function Relationships in Minimal Lanmodulin Mimics

12:05–12:25 Invited Talk

Baker, R., *Trinity College Dublin, Ireland*

A spectroscopic and structural investigation of the thermal decomposition of studtite $[\text{UO}_2(\text{O}_2)(\text{H}_2\text{O})_2] \cdot 2\text{H}_2\text{O}$

Session 11A: Coordination and organometallic chemistry (T1_10)

Theatre A | 13:30–15:05 Chair: Jin, P-B.

13:30–14:00 Keynote

Chen, Y., *South China University of Technology, China*

Rare-earth Metal Phosphinidene Complexes: Synthesis, Structure and Reactivity

14:00–14:25 Invited Lecture

Daly, S., *University of Iowa, USA*

Transuranium Borohydrides

14:25–14:45 Contributed

Karpiuk, T., *Simon Fraser University, Canada*

Strategies to tune lanthanide luminescence and magnetism distilled from an analysis of the Cambridge Structural Database

14:45–15:05 Contributed

Molloy, J.K., *Université Grenoble Alpes, France*

Lanthanide-Based Luminescent Probes for the Detection of Biologically Relevant Phosphate Anions

Session 11B: Catalysis and reactivity (T2_7)

Theatre B | 13:30–15:05 Chair: Robinson, J.

13:30–14:00 Keynote

Nocton, G., CNRS / École polytechnique, France

Organometallic f-elements complexes for N₂ cleavage and photochemical reactivity

14:00–14:25 Invited Lecture

Blakemore, J., University of Kansas, USA

Using Reduction and Protonation to Control the Generation of Multinuclear Plutonium Complexes

14:25–14:45 Contributed

Assendjee, E., École Polytechnique, France

Uranyl based photo-decarboxylation: from mechanistic insights to catalytic fuel production

14:45–15:05

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Session 11C: Resources and sustainability (T7_3)

GA.056 | 13:30–15:05 Chair: Baker, R.

13:30–14:00 Keynote

Love, J., University of Edinburgh, UK

Supramolecular approaches to rare-earth element separation

14:00–14:25 Invited Lecture

Yang, P., Los Alamos National Laboratory, USA

Probing the Limits of 5f Bonding in Actinides through Oxidation State Control and Redox-Active Ligands

14:25–14:45 Invited Talk

Geist, A., Karlsruhe Institute of Technology, Germany

Designing, understanding, and improving ligands for actinide(III)-lanthanide(III) separations

14:45–15:05 Invited Talk

Perrin, M., ETH Zürich, Switzerland

Bioinspired Heteropolymetallic Sulfido Complexes of the Rare Earth Elements

Session 12A: Coordination and organometallic chemistry (T1_11)

Theatre A | 15:40–17:15 Chair: Arnold, P.

15:40–16:10 Keynote

Schelter, E., University of Pennsylvania, USA

Cyclo-Metallocenes of Sm(II), Eu(II), and Ba(II) from Dianionic Amino-Borolide Ligands

16:10–16:35 Invited Lecture

Forbes, T., University of Iowa, USA

Stabilization of the heptavalent neptunyl cation

16:35–16:55 Contributed

Ye, H., University of Manchester, UK

Novel spectroscopic techniques using photoluminescence excitation to probe optical coherence properties of tiny emitter ensembles

16:55–17:15 Contributed

Stasiuk, G., King's College London, UK

Pt(II)/Ln(III)- d-f hybrids as small-molecule theranostics

Session 12B: Magnetism (T3_3)

Theatre B | 15:40–17:15 Chair: Ortu, F.

15:40–16:10 Keynote

Pedersen, K., *Technical University of Denmark, Denmark*
Valence Tautomerism in Lanthanide–Organic Networks

16:10–16:35 Invited Lecture

Bolvin, H., *LCPQ, CNRS, Université de Toulouse, France*
Probing the magnetic properties of actinide complexes by paramagnetic NMR

16:35–16:55 Contributed

Carter, K., *University of Iowa, USA*
Crystal Field Engineering in f-Element Polyoxometalate Complexes

16:55–17:15 Contributed

Pointillart, F., *Université de Rennes-CNRS, France*
Circularly Polarized Luminescence in lanthanide Single-Molecule Magnets

Session 12C: Resources and sustainability (T7_4)

GA.056 | 15:40–17:15 Chair: Yang, P.

15:40–16:10 Keynote

Wilson, R., *Argonne National Laboratory, USA*
Alkaline Chemistry of the Transuranium Elements

16:10–16:35 Invited Lecture

Bünzli, J.C., *EPFL/PolyU HK, Switzerland*
EDTA: an old ligand for a new task

16:35–16:55 Invited Talk

Greer, S., *Los Alamos National Laboratory, USA*
Electron Paramagnetic Resonance of Actinide Coordination Compounds: From Electronic Structure to Nuclear Forensics

16:55–17:15 Contributed

Sun, L., *Peking University, China*
Activating MOF Photosensitizers to Boost Near-Infrared-Triggered Photodynamic Therapy

Closing Remarks

Theatre A | 17:25–17:50

Gala Dinner

Whitworth Hall | 19:00–23:30

19:00–19:45 Christie's Bistro

Wine reception

19:45–23:30 Whitworth Hall

Gala dinner

Monday – 7th Sept.

Poster Session 1

Ground floor events space | 18:00–20:00

- P1A** | **Tijani, M.**, *University of Manchester, UK*
Synthesis and Study of a Class II-III Diuranium Mixed-Valence System
- P2A** | **Sanders, J.**, *Brown University, USA*
Access to Molecular Lanthanide-Organoperoxides
- P3A** | **MacKenzie, R.**, *University of Manchester, UK*
Small Molecule Activation and Redox Chemistry of Divalent bis-(tethered)arene Rare Earth Complexes
- P4A** | **Thomsen, M.S.**, *University of Southampton, UK*
Luminescence Upconversion in Molecular [d-f] Hybrid Complexes
- P5A** | **Marchioli, I.**, *Univ. Grenoble Alpes, CNRS, CEA, IRIG, LCBM (UMR 5249), F-38000 Grenoble, France*
Multiplex microscopy with luminescent lanthanide bioprobes
- P6A** | **Simms, C.**, *University of Edinburgh, UK*
Supramolecular Chemistry for the Selective Recovery of Rare Earths
- P7A** | **Fagundes, V.**, *University of Melbourne, Australia*
Improving Computational Predictions of Crystal Field Splitting in Yb(III) Complexes
- P8A** | **Sawallisch, T.**, *Helmholtz-Zentrum Dresden-Rossendorf, Germany*
An Isostructural Series of Actinide-Phosphine Complexes
- P9A** | **Mounir, M.**, *LCM, France*
Redox chemistry of the cyclononatetrenyl ligand
- P10A** | **Bhattacharjee, D.**, *École Polytechnique, France*
CO₂ Reduction by Lanthanum Borohydride Complexes and Hydroboration Reactivity
- P11A** | **Aldawsari, A.**, *Prince Sattam bin Abdulaziz University, Saudi Arabia*
A Novel Thiadiazole-Functionalized Polymeric Adsorbent for High-Efficiency Uranium(VI) Removal
- P12A** | **Zlotnikov, S.**, *University of California, Berkeley, USA*
EPR Studies of Lanthanide Qubit Candidates Enabled by New Strontium Diluents
- P13A** | **Vasconcelos, S.**, *University of Manchester, UK*
Rare-earth small molecule activation through single-crystal to single-crystal reactions.
- P14A** | **Dawson, P-R.**, *University of Huddersfield, UK*
A Density Functional Theory study on the Point defects in PuO₂
- P15A** | **Rotermund, B.**, *Lawrence Berkeley National Laboratory, USA*
High Coordinate Metal-Nitrates of the Transplutonium Actinides
- P16A** | **He, L.**, *The Hong Kong Polytechnic University, Hong Kong SAR*
Robust Gadolinium-Shelled Gold Nanoparticles for Hybrid Diagnostic Imaging
- P17A** | **Webster, L.**, *University of Manchester, UK*
High Performance Lanthanide Single-Molecule Magnets with Charge-Dense Ligands
- P18A** | **Schwab, C.**, *TU Dortmund University, Germany*
Azobenzene-based lanthanoid complexes – Investigating the interplay between a photoswitch and a lanthanoid in close proximity
- P19A** | **Tateyama, H.**, *Lawrence Berkeley National Laboratory, USA*
Molecular Single Source Precursors for f-Element Materials
- P20A** | **Tyurina, O.**, *School of Biomedical Engineering and Imaging Sciences, St Thomas' Hospital, UK*
Synthesis and evaluation of multimeric nanoparticle-based MRI agents

P21A | Chang, A., INSA Rennes, France

Strong luminescence properties in highly optically-diluted lanthanide based coordination polymer

P22A | Luo, Q.-C., Xi'an Jiaotong University, China

Enhancing magnetic blocking of dysprosium(III) single-molecule magnets through modulating the terahertz optical phonons

P23A | Özer, B.-K., University of Tübingen, Germany

Discrete rare-earth-metal complexes with small alkoxy and amido ligands

P24A | Bagio, S., University of Manchester, UK

Exploring Bulky Tetrasubstituted COT Ligands with Rare Earth Elements

P25A | Francis, A., University of Manchester, UK

Investigating the Difference Between the M_3 - and M_4 -edge of $[UO_2Cl_4]^{2-}$.

P26A | Senkiw-Smith, L., University of Birmingham, UK

Luminescent ternary Ln(III) binuclear complexes for gold nanoparticles

P27A | Chakraborty, A., University of Edinburgh, UK

p-tert-butylcalix[8]arene : A Versatile Platform for Magneto-Structural Studies

P28A | Babbain, A., University of Manchester, UK

Expanding Lanthanide Redox Chemistry Using Redox-Active Ligands

P29A | Maria, L., Instituto Superior Técnico, Universidade de Lisboa, Portugal

Facile N–C bond cleavage and arene reduction by a transient uranium(III) complex

P30A | Nagar, A., University of Manchester, UK

Synthesis and Reactivity of High Valent Rare Earth-Ligand Multiple Bonds

P31A | Turnbull, R.D., University of Hamburg, Germany

Better living through nanoparticles: alternative entry points to low-valent uranium chemistry for synthesis and reactivity

P32A | Vollmar, K., TU Dortmund University, Germany

Gadolinium Complexes as MRI Contrast Agents and their Potential Interaction in Proton Therapy

P33A | Li, H., Hong Kong Baptist University, Hong Kong SAR

Probing Drug-Binding to α_1 -AGP with a Europium-Based Luminescent Sensor

P34A | Blankenship, M., Karlsruhe Institute of Technology, Germany & University of Nevada, Las Vegas, USA

Probing bond covalency in $M_2UO_2Cl_4$ ($M = Rb, Cs$) with O K resonant inelastic soft x-ray scattering

P35A | Kasprzycka, E., University of Wrocław, Poland

Ytterbium-based coordination compounds: Solid-state emission quantum yield measurement approach

P36A | Deng, X., University of Manchester, UK

METAL-METAL BONDING IN MOLECULAR ACTINIDE COMPOUNDS

P37A | Hlina, J., University of Graz, Austria

Heterometallic Rare-Earth/Late Transition Metal Complexes and their Application in Catalysis

P38A | Rehbein, V., Graz University of Technology, Austria

Dinuclear Rare-Earth Metal Azacryptand Complexes: Hydride Adducts

P39A | Gao, Y., University of Manchester, UK

Synthesis and DFT calculation of a Uranium Imidazo Carbene Complex

P40A | Rana, R., Indian Institute of Technology Bombay, India

Accurate Machine Learning Predictions of Magnetization Barriers and Relaxation Times in D_{nh} ($n = 4-6$) Dy (III) Single-Molecule Magnets

- P41A | Panigrahi, G.,** *Indian Institute of Technology Kanpur, India*
Selective Recognition of Physiological Phosphates by Luminescent Europium(III) Probes via Analyte-Specific Energy-Transfer Pathways
- P42A | Kiltinavicius, L.,** *University of Manchester, UK*
Atomistic insight into the interactions of small molecules with PuO₂ surfaces
- P43A | Kubis, M.,** *Karlsruhe Institute of Technology, Germany*
Reactivity of the binary anions (Sn₂As₂)²⁻ and (HSn₃As)²⁻ towards d- and f-block complexes
- P44A | Butorin, S.,** *Uppsala University, Sweden*
Localization versus hybridization of f-states in actinide and lanthanide oxides probed by soft x-ray spectroscopies
- P45A | Moir, C.,** *University of Manchester, UK*
The influence of 5f/6d mixing on uranyl bonding and reactivity
- P46A | Schmidt, A.,** *Karlsruhe Institute of Technology, Germany*
Synthesis of [{Cp^{IPr4}Ln]_{1/2}Bi₆}]²⁻ (Ln = Nd, Dy) starting from Bi₂²⁻
- P47A | Bonabello, S.,** *Università del Piemonte Orientale, Italy*
Design of On-Chip Integrated Quantum Light Sources
- P48A | Zacharias, C.,** *University of Hamburg, Germany*
Investigation of Lanthanoid-Sulfur Binding Modes in Lanthanoid Complexes with Mixed Thia-Oxo-Crown Ethers
- P49A | Silva, R.A.N.,** *Università del Piemonte Orientale, Italy*
Pyridine-Based Eu³⁺ Complexes as Potential Quantum Emitters: Role of Heteroatom Substitution in Emission Tuning
- P50A | Hourston, H.,** *University of Manchester, UK*
Highly Axial Dysprosium Cyclopentadienyl-Amide Single-Molecule Magnets
- P51A | Grimes, T.,** *Idaho National Laboratory, USA*
Gamma Irradiation Effects on Uranium Transport and Neptunium Oxidation State Distribution in Guanidine Carbonate
- P52A | Turcas, I.,** *University of Manchester, UK*
Electronic Structure of Lanthanocene and Actinocene [Ln/An(COT)₂]ⁿ Complexes
- P53A | Cameron, L.,** *Université de Rennes, CNRS, INSA Rennes, ISCR, Rennes, France*
Exploring Relaxation Mechanisms using Isotopically Enriched 4f Single Molecule Magnets
- P54A | Choudhary, A.,** *Indian Institute of Technology Bombay, India*
Generative AI-Assisted Design and Prediction of Magnetic Relaxation Barriers in Endohedral Metallofullerene Single-Molecule Magnets
- P55A | Nguyen, H.N.,** *Sorbonne Université, France*
Toward luminescent probing of a photo-magnetic effect in multifunctional hetero-tri-metallic architectures
- P56A | Di Santo, T.,** *Univ. Grenoble Alpes – CEA – CNRS – LCBM (UMR 5249), Grenoble, France*
Design of molecular imaging bimodal MRI/PET probe for Zinc(II) detection in-vivo
- P57A | Reuter, J.,** *University of Tübingen, Germany*
Rare-earth-metal phosphinidenes
- P58A | Han, K.,** *University of Manchester, UK*
Synthesis, structure and reactivity of Uranium diazoalkane complexes
- P59A | Bedwell, G.P.,** *University of Melbourne, Australia*
Modulating the Electronic Properties of Ce(IV) Complexes via Ligand Tuning
- P60A | Cheung, S.K. & Yeung, C.T.,** *The Hong Kong Polytechnic University, Hong Kong SAR*
Supramolecular Assembly of Chiral Lanthanide Triple-Deckers/ Cages

P61A | **Bhadani, A.**, *Helmholtz-Zentrum Dresden-Rossendorf, Germany*

Synthesis of Actinide based Metal-Organic Frameworks for Fission Product Immobilisation

P62A | **Beria, P.**, *DCM / CIRE, France*

Peptide functionalized lanthanide complexes for medical imaging: A redox active luminescent and magnetic switch

P63A | **Singh, H.P.**, *École Polytechnique, France*

CO-Derived Ethynediolato as a Platform for Small Molecule Functionalisation

P64A | **Iqbal, M.**, *Karlsruhe Institute of Technology, Germany*

Synthesis of Heterobimetallic Cerium Sandwich Complexes

P65A | **Anand, P.**, *Karlsruhe Institute of Technology, Germany*

Magnetic and Optical Properties of $[\text{Cu}_3(\text{vanox})_2(\text{NO}_3)_2]$ Chain Structure- a 3D Supramolecular array

Tuesday – 8th Sept.

Poster Session 2

Ground floor events space | 18:00–20:00

P1B | Johnny, J., James Cook University, Australia

SYNTHESIS AND CHARACTERISATION OF TRIVALENT LANTHANOID COMPLEXES BY DIRECT REACTION METHOD USING PYRAZOLATO LIGANDS

P2B | Glauser, B., CNRS / Université de Rennes, France

Switching of Magneto-Chiral Dichroism in Single-Molecule Magnets of Lanthanide Ions

P3B | Cariño, C., Sorbonne Université, France

Magnetic Heteropolymetallic Lanthanide Dendrimers as Molecular Qubits for Quantum Integrated Devices

P4B | Winterholler, N., TU Dortmund University, Germany

Development of Photoswitchable, 3D-Printed Lanthanoid-based 2D-Microcodes

P5B | Faltejsek, J., Charles University, Czech Republic

Predicting and Controlling Isomer Distributions in Pyridinophane Complexes of f-Elements: From Lanthanides to Actinides

P6B | Chen, J., The Hong Kong Polytechnic University, Hong Kong SAR

Advances and Emerging Trends in Molecular Chemistry of the f-elements

P7B | Young, J., University of Manchester, UK

Synthesis & Characterization of a High Entropy Lanthanide Oxselenide

P8B | Bair, A., University of California, Berkeley, USA

Stability and reactivity in lanthanide tris(alkyl) complexes

P9B | Golwankar, R., Los Alamos National Laboratory, USA

Electrochemical behavior of Actinides (An) in molten alkali halide salts

P10B | Eng, E., University of California, Berkeley, USA

Oxidative separation of Bk(IV)/Cf(III) and Ce(IV)/Ln(III) using 3,4,3-LI-(1,2-HOPO) and ambient O₂

P11B | Lohse, Y., Karlsruhe Institute of Technology, Germany

Keeping the Ligands: Zintl Clusters containing Lanthanide Complex Fragments

P12B | Thuppahige, N.Y.S., James Cook University, Australia

One Pot Synthesis of Novel Lanthanoid Amidinates Using Free Metals via an Insertion of Carbodiimides into Metal-Carbon Bonds

P13B | Specht, J., ETH Zürich, Switzerland

Seven-Coordinate Lanthanide Bis-Halide Bis-Tetrathiomallate Complexes: A Compelling Platform for Luminescent and Magnetic Properties

P14B | Hillers, L., University of Hamburg, Germany

Synthesis of Cyclopentadienyl-Tethered Phosphine Ligands and their f-Element Complexes

P15B | Clark, J., University of Oxford, UK

Photoinduced Spin Polarization of Gadolinium Complexes

P16B | Ziobro, M., University of Wrocław, Poland

Structure and spectroscopic properties of ternary lanthanides(III) systems

P17B | Namboorikandy, F.T.T., University of Manchester, UK

Defining the electronic structure of (hetero)metallocene anions

P18B | Braun, J., Karlsruhe Institute of Technology, Germany

Ultrafast dynamics of photoexcited 3d-4f single-molecule magnets

- P19B** | **Shi, R.**, Aarhus University, Denmark
Manipulation of Luminescence via Surface Site Occupation in Ln³⁺-Doped Nanocrystals
- P20B** | **Cheng, L.**, Helmholtz-Zentrum Dresden-Rossendorf, Germany
Encapsule Uranyl in a Half-Closed Silver Shell
- P21B** | **Partlow, H.**, University of Manchester, UK
Catalytic and stoichiometric stepwise conversion of side-on bound dinitrogen to ammonia mediated by a uranium complex
- P22B** | **Mamonov, K.**, University of Copenhagen, Denmark
Lanthanide complex quantification for therapeutic applications
- P23B** | **Robinson-Makin, K.**, University of Manchester, UK
Tuning the Redox Properties of Cerium and Uranium Within a bis-di(silylamido) Silane Framework
- P24B** | **Sroka, W.**, University of Edinburgh, UK
Single Molecule Toroids and Magnetic Cooling
- P25B** | **Schuster, R.**, Leipzig University, Germany
Structure, spectroscopic and magnetic properties of hetero-bicationic complexes of SCHIFF-base-calix[4]arene based ligands
- P26B** | **Benny, A.P.**, Brown University, USA
Hydrogen Peroxide Selective Dioxygen Reduction in Homogeneous Europium Catalysts
- P27B** | **Chatelain, L.**, University of Brest, France
Uranium Complex Mediating the Stepwise Conversion of N₂ to NH₃
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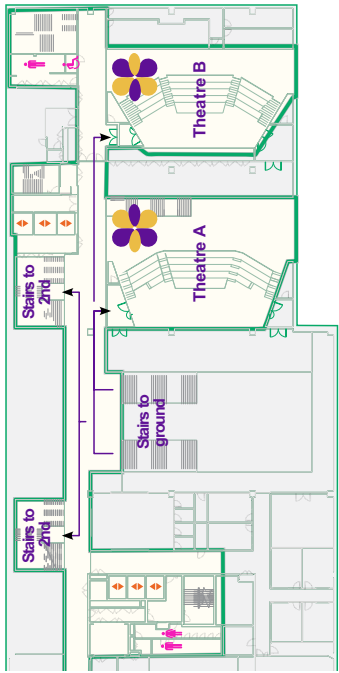
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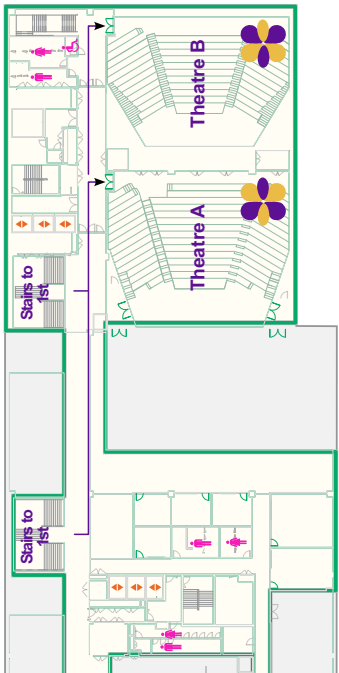
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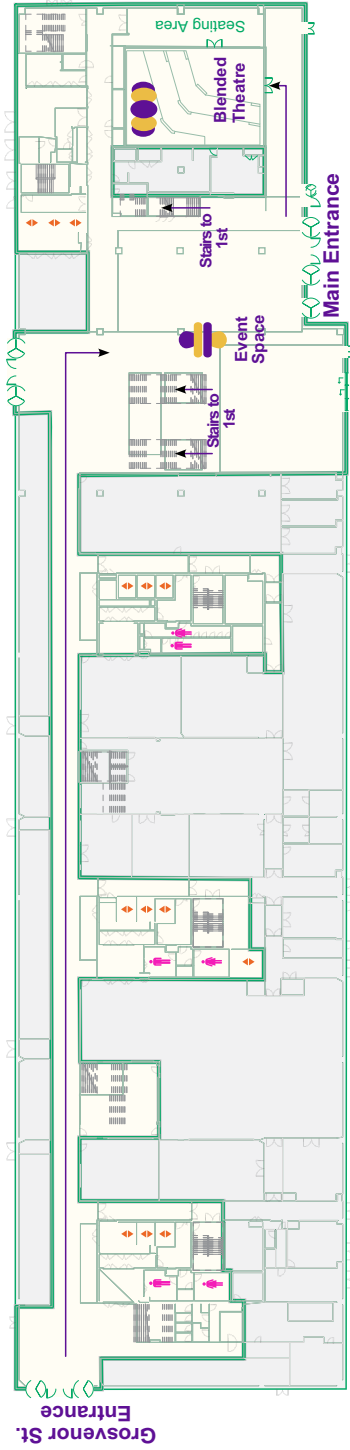
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