

Program: Terrae Rarae - Tage der Seltenen Erden

27.-29.09.2022, Leipzig University

Venue: Leipzig University, Johannisallee 29, 04103 Leipzig, Germany

TRA: Terrae Rarae Award Lecture (50 minutes)

P: Plenary Lecture (40 minutes + 10 minutes for discussion)

O: Oral Contribution (15 minutes + 5 minutes for discussion)

Tuesday, September 27, 2022			
registration	13:00	conference registration	
opening	14:00	Holger Kohlmann (Leipzig University, Germany)	Welcome, organisational and historic remarks
TRA	14:20	Reiner Anwander (University of Tübingen, Germany)	Rare-Earth-Metal Alkyls – A 25-Year Exciting Journey
O01	15:10	Matthew Stevens (University of Leicester, UK)	Methanide and methandiide complexes of divalent alkaline earth and rare earth metals
coffee	15:30	30 min coffee break	
O02	16:00	Nicolaj Kofod (University of Copenhagen, Denmark)	A Light in the Dark: Using Molecular Photophysics to Explore f-f Electronic Transitions
O03	16:20	Jani Olavi Moilanen (University of Jyväskylä, Finland)	Utilization of Orbital Symmetry to Promote Antiferromagnetic or Ferromagnetic Coupling in Double Radical-Bridged Lanthanide Complexes
O04	16:40	Hameed Ullah (University of Siegen, Germany)	One dimensional Single Assembly of Magnetic and Persistence Luminescence Nanomaterials for Diverse Applications
O05	17:00	Robert Michael (Leipzig University, Germany)	Mixed anionic rare-earth and transition metal chalcogenide oxides RE/T/Ch/O
dinner	17:30- 21:00	Get together (= conference dinner) with barbecue (also vegan), beer and more	

Wednesday, September 28, 2022			
P1	09:00	Robert Glaum (Bonn University, Germany)	Ligand-field analysis for lanthanoids – Why?
O06	09:50	Sophie Corner (The University of Manchester, UK)	Influence of equatorial ligand fields on magnetic relaxation pathways of dysprosocenium cations
O07	10:10	Jack Emerson-King (The University of Manchester, UK)	Magnetic properties and unusual reactivity of axial lanthanide(III) silylamide complexes
coffee	10:30	30 min coffee break	
O08	11:00	Barbara Klausfelder (Universität Bayreuth, Germany)	Rare earth based (De-)Hydrogenation catalysis
O09	11:20	Robin Steudtner (Helmholtz-Zentrum Dresden-Rossendorf, HZDR, Germany)	Spatially resolved Eu(III) environments by chemical microscopy
O10	11:40	Stephane Petoud (Center for Molecular Biophysics, Orléans, France)	Dual-mode Near-infrared Optical and Photoacoustic Imaging Agent based on Low Energy Absorbing Ytterbium Complex
O11	12:00	Niko Flosbach (Universität zu Köln, Germany)	Structure, Magnetism and Luminescence of Eu(OTf) ₂ (MeCN) and Sm(OTf) ₂ (MeCN)
lunch	12:20	100 min lunch break	
P2	14:00	David Mills (The University of Manchester, UK)	Recent Adventures in Lanthanide and Actinide Silicon Chemistry
O12	14:50	Svetlana Klementyeva (University of Tübingen, Germany)	The reactivity of rare earth halides towards metalloid germanium clusters
O13	15:10	Cathleen Zeymer (Technical University Munich, Germany)	Engineering Artificial Cerium Enzymes for Photoredox Catalysis
coffee	15:30	30 min coffee break	
O14	16:00	Matthew Thornton (The University of Manchester, UK)	Near-infrared emissive lanthanide complexes as biological imaging probes
O15	16:20	Eteri Svanidze (MPI Chemical Physics of Solids, Dresden, Germany)	Interplay of physical and chemical properties in complex non-centrosymmetric compounds
O16	16:40	Helena Singer (Ludwig Maximilian University of Munich, Germany)	Radioactive elements curium and americium support methylotrophic bacterial life
O17	17:00	Florian Jaroschik (Institut Charles Gerhardt, Montpellier, France)	Mechanistic insights into the synthesis of new linear divalent samarocenes involving spontaneous Sm(III)/Sm(II) reduction processes
POSTER	17:30-20:00	Poster session with beer, Brez'n and Fettbemme	

Thursday, September 29, 2022			
P3	09:00	Svetlana Eliseeva (Center for Molecular Biophysics, Orléans, France)	Luminescent lanthanide(III)-based metallacrowns: from design to applications
O18	09:50	Florian Gehlhaar (Leipzig University, Germany)	Determination of bound coherent neutron scattering lengths by Bragg diffraction
O19	10:10	Peter Junk (James Cook University, Townsville, Australia)	Mixed Valent Lanthanoid(II/III) Calix[4]pyrrolide Complexes
coffee	10:30	30 min coffee break	
P4	11:00	Robert Gericke (Helmholtz-Zentrum Dresden-Rossendorf, HZDR, Germany)	Bonding Trends in Tetravalent Actinide (Th - Pu) Complex Series
O20	11:50	Anne Mehnert (Leipzig University, Germany)	Luminescence Sensing of Alkali Metal Ions by Calixarene-based Lanthanide Schiff/Base Complexes
closing	12:10-12:40	Holger Kohlmann (Leipzig University, Germany)	Closing remarks, awards and prizes, and announcement of the next conference