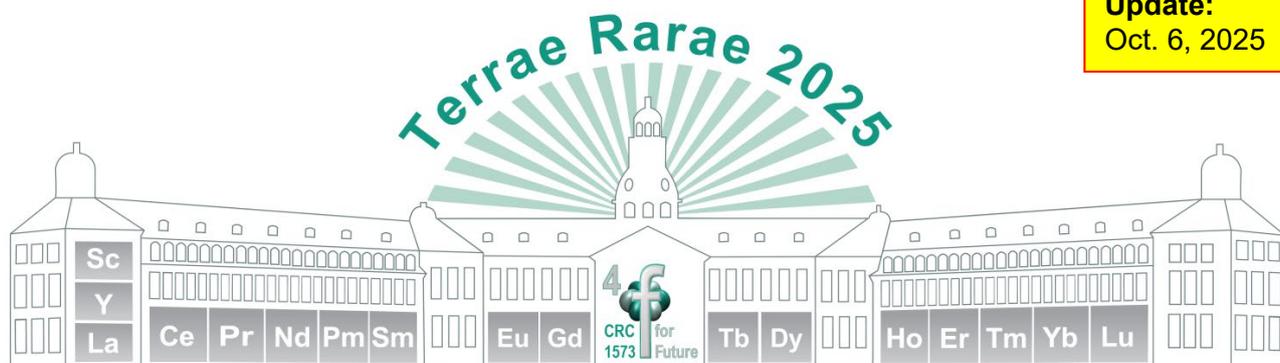


Update:
Oct. 6, 2025



Conference Program

| Tuesday, Oct. 7 | | | |
|-----------------|--|---------------------------|---|
| 12:00 | <i>Registration desk opens</i> | | |
| 14:00 | Peter W. Roesky KIT, Conference Chair | Welcome & Opening Remarks | |
| 14:20 | Jana Roithová Radboud University, Nijmegen NL | PLE1 | Understanding Electrosynthesis and Electrocatalysis through Online Mass Spectrometry Monitoring |
| 15:10 | Johann A. Hlina University of Graz AT | O01 | Heterodinuclear Rare-Earth/Late Transition Metal Complexes: from Fundamentals to Applications |
| 15:30 | Eva Rentschler JGU Mainz DE | O02 | Chiral Metallocrown Complexes |
| 15:50 | <i>Coffee break</i> | | |
| 16:10 | Ashley J. Shin MPI for the Science of Light, Erlangen DE | O03 | Toward Liquid Cell Quantum Sensing: Ytterbium Complexes with Ultranarrow Absorption |
| 16:30 | Amal Bouammali Institut Charles Gerhardt Montpellier FR | O04 | Solution vs. Mechanochemical Synthesis of Polyarylcyclopentadienyl-Based Dysprosium Single Molecule Magnets |
| 16:50 | David P. Mills The University of Manchester UK | O05 | Dysprosium Cyclopentadienyl-Amide Single-Molecule Magnets |
| 17:10 | Christof Holzer KIT | O06 | From Molecules to Materials: an In Silico Perspective on Lanthanides |
| 17:30 | Nicolaj Kofod The University of Manchester UK | O07 | Upconversion in Hetero-Trimetallic Molecular Lanthanide Complexes |

Venue on KIT Campus South

Kollegengebäude am Ehrenhof (bldg. 11.40):

KIT Studierendenhaus (bldg. 01.12):

Tulla Lecture Hall (upper floor)

Tulla Foyer (ground floor)

Festsaal, "Karlsruher Studierendenhaus"

| Wednesday, Oct. 8 | | | |
|--------------------------|--|-------------|---|
| 09:00 | Mario Ruben KIT & University of Strasbourg FR | PLE2 | Molecular Rear-Earth Nuclear-Spin Qubits for Implementing Quantum Gates And Quantum Algorithms |
| 09:50 | Michael E. Harding KIT | O08 | Accurate Energy Levels of the Lanthanoid Ions Eu ³⁺ and Sm ²⁺ |
| 10:10 | Emily M. Reynolds KIT | O09 | Influence of Oxidation State on Bonding Properties of [Ce ^{III} (PhC(N ^t Bu) ₂) ₃] and [Ce ^{IV} (PhC(N ^t Bu) ₂) ₃] ⁺ [Al(OC ₄ F ₉) ₄] ⁻ Probed by High-Resolution X-Ray Absorption |
| 10:30 | Ingo Hartenbach University of Stuttgart DE | O10 | Fluoride Inside: on Rare-Earth Metal Fluoride Oxidomolybdates(VI) and -Tungstates(VI) |
| 10:50 | <i>Coffee break</i> | | |
| 11:10 | Pauline Lemp University of Bonn DE | O11 | NMR and Magnetic Studies of a Series of Heterobimetallic Rare Earth-Nickel Complexes |
| 11:30 | Thomas Simler École polytechnique, Palaiseau FR | O12 | H ₂ Splitting and N ₂ Hydrogenation Induced by a Divalent Lutetium Complex |
| 11:50 | Kazushi Mashima Osaka University JP | O13 | Catalytic Performance of Cerium Clusters Utilizing the Ce(IV/III) Redox Couple |
| 12:10 | Conrad A. P. Goodwin The University of Manchester UK | O14 | High Oxidation State f-Element Amides |
| 12:30 | <i>Lunch break*</i> | | |
| 14:00 | Stephan Götzinger FAU Erlangen-Nürnberg & MPI Science of Light, Erlangen DE | PLE3 | Ultimate Photonics: one Photon, one Molecule |
| 14:50 | Lennox W. Stewart University of Glasgow UK | O15 | Understanding Solution Absorbance and Photoluminescence of Divalent Lanthanide Tris(Pyrazolyl)Borate Complexes |
| 15:10 | Michael Seitz University of Tübingen DE | O16 | New Linear, Octadentate Antenna Ligands for Molecular Lanthanoid Luminophores |
| 15:30 | Elisabeth Kreidt TU Dortmund DE | O17 | Diazocines for the Reversible Photomodulation of Lanthanoid Luminescence |
| 15:50 | Mathias S. Wickleder University of Cologne DE | O18 | Preparative Pathways to Lanthanide Compounds in Unusual Oxidation States |
| 16:10 | <i>Coffee break</i> | | |
| 16:30 – 18:30 | Poster Session I: Posters P01 – P35 | | |

* During lunch breaks, you are invited to visit the [KIT Mensa/Cafeteria](#) (canteen; free vouchers will be issued).

| Thursday, Oct. 9 | | | |
|---------------------|---|------|---|
| 09:00 | Roberta Sessoli Università degli Studi di Firenze IT | PLE4 | Light and Electric Field Control of Molecular Spin Qubits |
| 09:50 | Thomas Schleid University of Stuttgart DE | O19 | About Lanthanoid(III) Halide Oxopnictogenates(III) |
| 10:10 | Jonas Braun KIT | O20N | Thoughts on Magnetic Relaxation of SMMs on Multiple Timescales |
| 10:30 | Peter C. Junk James Cook Univ. Townsville AU | O21 | Reactivity of Highly Reactive Divalent Rare Earth Reagents with Organic Substrates |
| 10:50 | Coffee break | | |
| 11:10 | Bianca Schacherl KIT | O22 | XMCD Investigations of Lanthanide Magnetic Molecular Systems |
| 11:30 | Schirin Hanf KIT | O23N | Hybrid Ligands for the Design of Heterometallic Rare Earth–Transition Metal Complexes |
| 11:50 | Claus Feldmann KIT | O24N | Rare-Earth-Metal Nanoparticles: Synthesis, Reactivity & Reactions |
| 12:10 | V. Unni Chorakkunnath KIT | O25 | Europium-Based Molecular Complexes for Optically Interfaced Spin Qubits |
| 12:30 | Lunch break* | | |
| 14:00 | Stephen T. Liddle The University of Manchester UK | PLE5 | Actinides In the ‘Third Dimension’ of the Periodic Table: Aromatic Thorium Superatoms |
| 14:50 | Lisa Vondung University of Hamburg DE | O26 | Uranium Nanoparticles: an Alternative Approach for Precursor Synthesis and Reactivity |
| 15:10 | Gerd H. Meyer Aarhus University DK | O27 | Complex Rare-Earth Halides as Electrolytes for All-Solid-State Batteries |
| 15:30 | Lucas J. B. Erasmus University of the Free State ZA | O28 | Samarium and Europium Doped Phosphors for Application in Solar Spectrum Conversion |
| 15:50 | Anja-Verena Mudring Aarhus University DK | O29 | Decoding Surface-Controlled Luminescence in Lanthanide-Doped Nanocrystals – from Site Occupation to Structural Reconstruction |
| 16:10 | Coffee break | | |
| 16:30 – 18:00 | Poster Session II: Posters P36 – P70 | | |
| 18:30 | Closing Remarks & Award Ceremony | | |
| 19:00 | Conference Dinner | | |

* During lunch breaks, you are invited to visit the [KIT Mensa/Cafeteria](#) (canteen; free vouchers will be issued).

Karlsruhe
07.-09.10.2025



Terraes Rarae 2025

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ERC for
1973 Future

33. Tage der Seltenen Erden

DFG Deutsche Forschungsgemeinschaft
German Research Foundation



Site Map of Conference Venue KIT Campus South

Locations

- **Tulla Lecture Hall** building 11.40, entrance "Ehrenhof" (KIT main courtyard)
- **KIT Mensa** Adenauerring 7
- **KIT Studierendenhaus** Adenauerring 7

How to get there

- **Waldparkplatz** (free car parking)
- **Kronenplatz** (tram stop from/to Karlsruhe Hbf – central station)
- **Durlacher Tor/KIT-Campus Süd** (tram stop from/to Karlsruhe Hbf – central station)

