The Chemistry of f-Elements
Spring School

February 27th until March 1st 2024
Organizer: Prof. Dr. Jan J. Weigand, Dr. Marco Wenzel / Prof. Dr. Berthold Kersting
TU Dresden, Inorganic Molecular Chemistry / University of Leipzig

Location: Hotel Michaelis, Leipzig. Paul-Gruner Str. 44, 04107 Leipzig
https://www.michaelis-leipzig.de/de/wir-betreiben/hotel-michaelis/

Program

Tuesday, February 27th, 2024
Arrival

Wednesday, February 28th, 2024
9:00 Opening (Prof. Jan J. Weigand; TU Dresden, D)
9:05 The Yin & Yang of radioactivity – from risks & chances to captivating chemistry (Prof. Karsten Meyer; Friedrich-Alexander-Universität Erlangen Nürnberg, D)
10:05 Chemistry at the bottom of the periodic table (Prof. Robert J. Baker, Trinity College Dublin, IRL)
11:00 Coffee break
11:30 Actinide and Lanthanide Luminescence Spectroscopy (Dr. Moritz Schmidt, Helmholtz-Zentrum Dresden-Rossendorf, D)
12:10 Solvent extraction – principles as analytical method (Dr. Marco Wenzel, TU Dresden, D)
12:50 Lunch
14:00 Actinide separations by solvent extraction - nitrogen donor ligands do it better (Dr. Andreas Geist, Karlsruher Institut für Technologie, D)
14:45 Actinide separation processes in Europe and abroad – overview of current developments (Dr. Andreas Wilden, Forschungszentrum Jülich GmbH, D)
15:30  Coffee break
16:00  **Uranium chemistry** (Prof. Florian Kraus, Philipps-Universität Marburg, D)
17:00  **Actinide chemistry at HZDR** (Prof. Thorsten Stumpf, Helmholtz-Zentrum Dresden-Rossendorf, D)
18:00  **Get together** (Brezel & Bier + Fingerfood)

**Thursday, February 29th, 2024**

9:00    **Activation of small molecules on uranium**, Prof. Lisa Vondung, Universität Hamburg, D)
9:45    **Chelation studies of f-elements by siderophores and abiotic analogs: from solution equilibrium studies to the development of environmental monitoring tools** (Dr. Michel Meyer, l'Université de Bourgogne, F)
10:30   Coffee break
11:00   **f-elements and their interaction with living organisms and their biomolecules** (Prof. Lena Daumann, Heinrich Heine Universität Düsseldorf, D)
11:50   **Biological chemistry of f-elements II** (Prof. Robert J. Baker, Trinity College Dublin, IRL)
12:40   Lunch
14:00   **Chemosensors on the basis of luminescent lanthanide complexes** (Prof. Berthold Kersting, Universität Leipzig, D)

**Friday, March 1st, 2024**

9:00    **Food proteins and their interaction with metals** (Prof. Thomas Henle, TU Dresden, D)
9:45    **Analytical tools to study metal ion - biomaterial interactions** (Prof. E. Brunner, TU Dresden, D)
10:30   Coffee break
11:00   **How biology deals with f-elements** (Dr. Johannes Raff, Helmholtz-Zentrum Dresden-Rossendorf, D)
12:00   Round table discussion “f-Element Chemistry: Current trends and future perspectives”
12:30   Lunch
14:00   Closing of the school