



Spring School

THE CHEMISTRY OF *f*-Elements

24-28 March 2026 Dresden

Organizer: Prof. Dr. Jan J. Weigand, Dr. Marco Wenzel

TU Dresden, Inorganic Molecular Chemistry

Location: Penk Hotel Ostra-Allee 33, 01067 Dresden, Germany

(<https://www.penckhoteldresden.de/en/>)

Program

Tuesday, March 24th, 2026

Arrival

- 16:30 Registration and welcome of the participants
- 17:00 Opening of the School (Prof. Jan J. Weigand; TU Dresden, D)
- 17:10 **The Yin & Yang of radioactivity – from risks & chances to captivating chemistry** (Prof. Karsten Meyer; Friedrich-Alexander-Universität Erlangen Nürnberg, D)
- 18:30 Welcome reception

Wednesday, March 25th, 2026

- 9:00 **Introduction to radiobiology of densely ionizing radiation** (Prof. Dr. Claudia Fournier, Biophysics Department, GSI, D)
- 10:00 **Fundamentals of actinide electronic spectroscopy** (Dr. Louise Natrajan, University of Manchester, UK)
- 11:00 Coffee break
- 11:30 **Coordination Chemistry of *f*-elements with focus on their use in medical application** (Dr. Manja Kubeil, Helmholtz-Zentrum Dresden-Rossendorf, D)
- 12:30 Lunch
- 14:00 **Terbium: a newcomer in nuclear medicine** (Dr. Michel Meyer, l'Université de Bourgogne, F)
- 15:00 coffee break
- 15:30 **Innovative cancer therapies: Combination of ionizing irradiation and immunotherapy** (Prof. Dr. Claudia Fournier, Biophysics Department, GSI, D)

Thursday, March 26th, 2026

- 9:00 **Basic aspects of computational actinide chemistry** (Dr. Michael Patzschke, Helmholtz-Zentrum Dresden-Rossendorf, D)
- 10:00 **Characterisation of *f*-element bonding from electronic structure simulations** (Dr. Andrew Kerridge, Lancaster University, UK)
- 11:00 Coffee break
- 11:30 **Modelling the magnetic properties of actinide complexes** (Dr. Hélène Bolvin, Université de Toulouse, F)
- 12:30 Lunch
- 14:30 **Excursion to the training nuclear reactor at TU Dresden**

Friday, March 27th, 2026

- 9:00 **Applications of electronic spectroscopy across the fuel cycle** (Dr. Louise Natrajan, University of Manchester, UK)
- 10:00 Coffee break
- 10:30 **Radionuclides in food** (Prof. Dagmara Strumińska-Parulska, University of Gdańsk, P)
- 12:00 **Biological chemistry of *f*-elements** (Prof. Robert J. Baker, Trinity College Dublin, IRL)
- 13:00 Lunch
- 14:30 **How biology juggles with *f*-elements** (Dr. Johannes Raff, Helmholtz-Zentrum Dresden-Rossendorf, D)
- 15:30 Coffee Break
- 16:00 Round table discussion **"*f*-Element Chemistry: Current trends and future perspectives"**
- 18:00 Farewell gathering

Saturday, March 28th, 2026

Departure

Supported by



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