ChemISTry Colloquia

Indigoid chromophores - a Powerful Platform for Light Responsive Nanosystems and Molecular Machines

Henry Dube

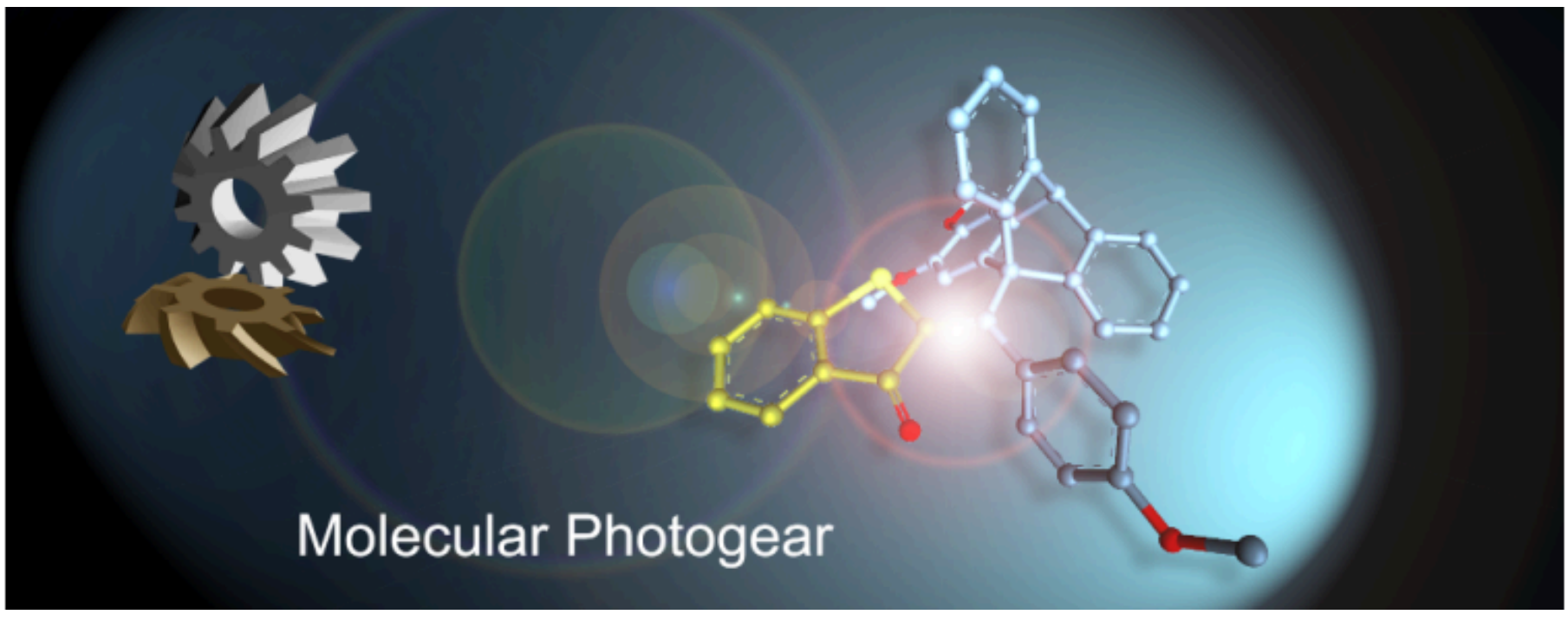
FAU Erlangen-Nürnberg

Department of Chemistry and Pharmacy

12 March Thursday **2026** **11:00**

Heinzel Seminar Room

The concept of miniaturization promises almost unlimited possibilities for the development of advanced and futuristic technology. Be it smart materials, nano medicine or even artificial life – for all these areas synthetic chemistry is the ultimate foundation. In this lecture research on molecular machines will be the central topic to answer one fundamental question: how can one miniaturize mechanical processes and how can such nanoscalar processes be controlled and applied? To this end conceptual ideas spanning synthetic organic, physical, photo, and supramolecular chemistry will be explored while rediscovering the colorful chemistry of the late 19th and early 20th century.



Professor Henry Dube is Chair of Organic Chemistry at the Department of Chemistry and Pharmacy at FAU Erlangen-Nürnberg. He completed his PhD at ETH Zürich and his postdoctoral work at The Scripps Research Institute in La Jolla. His independent career began at LMU Munich, from where he received the call to Erlangen. His current research interests focus on organic and physical organic chemistry and include photochemistry, supramolecular chemistry, biological chemistry, and molecular machines. His research is funded by an ERC Consolidator Grant and German national grants.