Photophysics, Photochemistry and Photobiology

This course provides an overview of experimental aspects of optical spectroscopy, and the application to a variety of systems, with examples ranging from inorganic/molecular to biological/medical fields.

Format of the course:
This is an interactive course: during five afternoons, a combination of lectures and hands-on exercises will be given. Workshops will be devoted to exercises, topical discussion, and data treatment. During the course, participants will also study a scientific paper (in small groups) and give a presentation about it on the final (sixth) day. For this, participants will also have to come up with at least one discussion question for the papers presented by the other groups.

Participants: max. 30

PPP-2024-Programme

Friday May 31 (UvA SP D1.113) 13.00 – 15.00: Basic Molecular Photophysics and experimental Techniques *René Williams* **15.00 – 15.15: coffee break** 15.15 – 17.15: Raman spectroscopy in analytical chemistry and biomedical imaging *Freek Ariese*	**Wednesday June 5 (UvA SP B0.203)** 13.00 – 15.00: Molecular Modeling in Photochemistry/Photobiology *Francesco Buda* **15.00 – 15.15: coffee break** 15.15 – 17.15: Photoactive Materials for Energy and Health *René Williams*
Monday June 3 (VU, WN-C629) 12.30 – 14.30: Time-resolved spectroscopy of Disordered Excitonic Systems *Charusheela Ramanan* 14:30-15:00: Lab tour *Charusheela Ramanan/Sven Askes* **15.00 – 15.15: coffee break** 15.15 – 17.15: Plasmonic photothermal materials with applications in medicine, catalysis, and more *Sven Askes*	**Thursday June 6 (Bring Laptop, VU WN-S5.29)** 13.00 – 15.00: Global and target analysis of time-resolved spectra. 1 methodology *Ivo van Stokkum* **15.00 – 15.15: coffee break** 15.15 – 17.15: Global and target analysis of time-resolved spectra. 2 hands on practical *Ivo van Stokkum*
Tuesday June 4 (UvA SP D1.113) 13.00 – 15.00: Optical spectroscopy in forensic science *Maurice Aalders* 15.00 – 15.15: **coffee break** 15.15 – 17.15: Photo-activatable compounds: What they are and how to make them better *Tomáš Solomek*	**Friday June 14 (CWI Congress Center Eulerzaal, Z009)** 13.00 – 17.00: Presentations by participants, discussion of scientific papers. 17.00-18:30: Drinks in Polder