

Physical Organic Chemistry:
Recent developments in instrumentation, structure, theory, and mechanisms
 PROGRAM

Time	Monday, Feb. 18, 2019
08:00–10:00	<i>Arrival, Registration, Check-in, Breakfast</i>
10:30–10:40	Welcome <i>Peter R. Schreiner and Christina M. Thiele</i>
	Chair: AnnMarie O'Donoghue
10:40–11:25	The subtle mechanisms of deceptively simple carbonyl hydrosilylations <i>Martin Oestreich, TU Berlin</i>
11:25–11:50	Subensemble-Selective Photochemistry by Mixed IR/VIS Two-Dimensional Spectroscopy <i>Jens Bredenbeck, U Frankfurt</i>
11:50–12:15	VCD spectroscopy as tool to investigate substrate binding in asymmetric catalysts <i>Christian Merten, U Bochum</i>
12:15–12:40	Coulomb Explosion Imaging and Coincidence <i>Martin Pitzer, Weizmann Institute of Science</i>
12:45–14:15	Lunch
	Chair: Boris Rybtchinski
14:15–15:00	Asymmetric additions to racemates <i>Stephen Fletcher, U Oxford</i>
15:00–15:45	IR-induced chemistry: from conformational changes to bond-breaking processes <i>Rui Fausto, U Coimbra</i>
15:45–16:15	Coffee Break
	Chair: Ryan Gilmour
16:15–17:00	Poster flash talks (10 Posters / 3 min)
	Chair: Dorota Gryko
17:00–17:45	Energy span model: building bridges between computational and experimental catalysis <i>Sebastian Kozuch, Ben Gurion U Negev</i>
17:45–18:30	Making Molecules Better <i>Jonathan Goodman, U Cambridge</i>
18:45	Dinner

Time	Tuesday, Feb. 19, 2019
07:30 – 08:30	Breakfast
	Chair: Martin Oestreich
08:30–09:15	Mechanism-based approach to new radical cyclisation cascades <i>David Procter, U Manchester</i>
09:15–09:40	Beyond Conventions and Comfort Zones: NHC Stabilized radicals <i>Julia Rehbein, U Regensburg</i>
09:40–10:25	Mechanistic understanding of chemoselectivity in NHC and BAC organocatalysis <i>AnnMarie O'Donoghue, Durham U</i>
10:25–11:00	Coffee Break
	Chair: Ruth Gschwind
11:00–11:25	Aerobic Functionalization of Carbonous π -Bonds by Means of Rationally Designed Selenium-Catalysis <i>Alexander Breder, U Göttingen</i>
11:25-11:50	Electrons from functionalized diamond surfaces, a novel tool for photocatalysis <i>Anke Krüger, U Würzburg</i>
11:50–12:15	Resolving the Mechanism of Peroxidative Cell Death Using Physical Organic Chemistry <i>Derek Pratt, U Ottawa</i>
12:15–12:40	Triplet Phenylphosphinidene: Synthesis, structure, and reactivity <i>Artur Mardyukov, JLU Giessen</i>
12:45–14:15	Lunch
14:15–16:15	Poster Session and Coffee Break
	Chair: Peter Chen
16:15–17:00	Exploiting physical organic principles in reaction design <i>Ryan Gilmour, U Münster</i>
17:00-17:25	Conformational Dependence of σ -Delocalization <i>Josef Michl, U Colorado/Boulder and IOCB, Prague</i>
17:25–18:10	Dynamic foldamers as biomimetic communication devices <i>Jonathan Clayden, U Bristol</i>
18:10–18:25	About the Wilhelm and Else Heraeus Foundation <i>Stefan Jorda, WE-Heraeus-Stiftung, Hanau</i>
18:45	Dinner

Time	Wednesday, Feb. 20, 2019
07:30 – 08:30	Breakfast
	Chair: Stephen Fletcher
08:30–09:15	Intermediates, interactions and transition states in photo- and organocatalysis <i>Ruth Gschwind, U Regensburg</i>
09:15–09:40	Mechanistic insight into homogeneous catalysis from multi-nuclear high resolution FlowNMR spectroscopy <i>Ulrich Hintermaier, U Bath</i>
09:40–10:05	Structural insights into polymer micelles from solid-state NMR and complementary tools <i>Ann-Christin Poeppler, U Würzburg</i>
10:05–10:30	Tuning redox potentials in photocatalysis: Strategies for C–O-bond activation and broadly applicable metal-free photoredox catalysts <i>Kirsten Zeitler, U Leipzig</i>
10:30–11:00	Coffee Break
11:00–11:15	Conference photo (in the front of the lecture hall)
	Chair: Oliver Trapp
11:15–11:40	Multicomponent Catalytic Machinery: How the Machine Speed Impacts Catalytic Activity <i>Michael Schmittel, U Siegen</i>
11:40–12:05	Transient Intermediates in the Phosphane-Mediated Trimerization of Isocyanates <i>Hendrik Zipse, LMU Munich</i>
12:05–12:30	On the Mechanism of organocatalytic glycosylations <i>Eoghan McGarrigle, University College Dublin</i>
12:30–14:15	Lunch
14:15–16:15	Poster Session and Coffee Break
	Chair: Jonathan Clayden
16:15–17:00	Early pathways to life: Mechanisms to molecular evolution and homochirality <i>Oliver Trapp, LMU Munich</i>
17:00–17:25	Memory of Chirality in Flow Electrochemistry <i>Thomas Wirth, U Cardiff</i>
17:25–18:10	Elucidating crystallization mechanisms by cryogenic electron microscopy <i>Boris Rybtchinski, Weizmann Institute of Science</i>
18:45	HERAEUS DINNER <i>(social event with cold & warm buffet with complimentary drinks)</i>

Time	Thursday, Feb. 21, 2019
07:30 – 08:30	Breakfast
	Chair: Jonathan Goodman
08:30–09:15	Quantifying dispersion effects on structure and bond strengths in the gas phase and in solution <i>Peter Chen, ETH Zurich</i>
09:15–09:40	Reversible Hydrogen Activation by a Pyridonate Borane Complex: Combining Frustrated Lewis Pair Reactivity with Boron-Ligand Cooperation <i>Urs Gellrich, JLU Giessen</i>
09:40–10:25	Photoinduced porphyrinoid catalysis - the need to elucidate the mechanism <i>Dorota Gryko, Polish Academy of Sciences</i>
10:25–11:00	Coffee Break
	Chair: David Procter
11:00–11:45	Deciphering the structure, dynamics, and chirality of complex molecules <i>Melanie Schnell, DESY</i>
11:45–12:30	Electrostatic Gating and Solvent Holes in the Mechanism of Carbocation Reactions <i>Daniel Singleton, Texas A & M U</i>
12:30–12:45	Closing remarks <i>Christina M. Thiele and Peter R. Schreiner</i>
12:45–14:15	Lunch
14:15	Departure