Schedule: « New ways to do chemistry - Emerging technologies for synthetic methodology »

The workshop will focus on five specific topics: 1) Al-assisted synthesis, 2) Photo/electrochem Electron transfer, 3) Automated synthesis, robotics, 4) High throughput/flow, microfluidics, 5)

Theory, data analysis/predictive reaction development. The speakers will address at least one of them in their talk.

Venue: ULB - Campus Plaine - Quartier Jaune - Building N.O. - 5th Floor - Salle Solvay

Monday April 24, 2023 – Chairman Patrick Maestro						
09:30 - 10:00	Registration and starting coffee					
10:00 - 10:20	Ben Feringa & Marc Henneaux	Brussels	Introduction and context			
10:20 - 11:00	Franck Glorius	Muenster	On discovery and sensitivity in (photo)catalysis			
11:00 - 11:40	Veronique Van Speybroeck	Gent	Resolving complex catalytic cycles with modeling techniques bridging length and time scales			
11:40 - 12:20	Véronique Gouverneur	Oxford	New ways to do chemistry - Emerging technologies for synthetic methodology			
12:20 - 13:00	Robert Pollice	Groningen	Artificial Molecular Design			
13:00 - 14:00	Sandwich lunch and informal discussions					
14:00 - 14:40	Lee Cronin	Glasgow	Foundations of Digital Chemistry – Chemputation			
14:40 - 15:20	Bartosz Grzybowski	Ulsan	Algorithmic synthesis planning and reaction discovery			
15:20 - 16:00	Andrew J. De Mello	Zurich	Microfluidics for high-throughput chemistry & biology			
16:00 - 16:30	Coffee break and informal discussions (9th Floor)					
16:30 – 17:30	Philippe Schwaller	Lausanne	Al-accelerated Organic Synthesis – Regular Solvay Chemistry Colloquium			
17:30 - 17:45	Break and installation of posters					
17:45 - 20:00	Poster session and buffet of Belgian gastronomic specialties					

Tuesday April 25, 2028 – Chairwoman Hennie Valkenier						
10:00 - 10:40	Peter Seeberger	Postdam	Automated Glycan Assembly as a Basis for Life and Material Science Applications			
10:40 - 11:20	Tim Donohoe	Oxford	To Leave and then Return? Hydrogen Borrowing Catalysis and Organic Synthesis			
11:20 - 12:00	Berent Smit	Lausanne	Capturing chemical intuition			
12:00 - 12:40	Matt Sigman	Salt Lake City	Data Science meets Reaction Optimization			
12:40 - 12:45	Group photo					
12:45 - 13:30	Sandwich lunch and informal discussions					
13:30 - 14:10	Klavs Jensen	Boston	Accelerating chemical discovery and development with machine learning and automation			
14:10 - 14:50	Burkhard König	Regensburg	Chemical Photosynthesis - towards ideal chemical transformations			
14:50 - 15:30	Martin Burke	Urbana-Champaign	Generalizing small molecule synthesis			
15:30 - 16:10	Phil Baran	San Diego*	Simplifying Synthesis with Electricity			
16:10 - 16:30	Coffee break					
16:30 - 17:10	Corinne Gosmini	Palaiseau	Cobalt-catalyzed cross-coupling reactions			
17:10 - 17:50	Amandine Cuenca	Solvay SA	Applications of robotics and high throughput screening for industrial R&D			
18:00 – 18:30	Public transportation to downtown Brussels					
18:30 - 19:30	Free time downtown Brussels to drink a beer, to visit or to buy chocolates					
19:30 - 23:00	Banquet downtown Brussels					

^{*} San Diego 6:30 pm

Wednesday April 26, 2023 – Chairman Gert Desmet						
10:00 - 10:40	Pascal Miéville	Lausanne	Multidisciplinary challenges on the way to a fully autonomous chemistry laboratory at Swiss CAT+			
10:40 - 11:20	Richard Brown	Southampton	Organic electrosynthesis in flow reactors			
11:20 - 12:00	Jean-Christophe M. Monbaliu	Liège	New perspectives at the confluence of technology and organic synthesis			
12:00 - 13:30	Sandwich lunch and informal discussions					
13:30 - 14:10	Anne De Wit	Brussels	Chemical pattern formation in flows			
14:10 - 14:50	Ludovic Troian-Gautier	Louvain-la-Neuve	Controlling Excited-State Reactivity Towards More Efficient Energy Conversion			
15:30 -	Departure					