Programme November 14, 2024

08:15 Coffee/ tea & registration

08:45 Opening by Prof. dr. Wybren Jan Buma *(Scientific Director HRSMC)* and Prof. dr. Marileen Dogterom *(President KNAW)*

09:05 The history of HRSMC: Prof. dr. Kees Elsevier *(Member External Advisory Committee HRSMC)*

Session 1: HRSMC theme 1 'Synthesis, Characterization, Reactivity, Properties of Molecules'

Chair: *Prof. dr. Bas de Bruin*

09:15 Prof. Morten P. Meldal (University of Copenhagen, Denmark)
"Molecular Click Adventures. A Leap from the Shoulders of Giants"

09:55 Lars van der Zee (University of Amsterdam)
"Photoinduced Single Electron Transfer in Frustrated Lewis Pairs: An Investigation Along the Pnictogen Series"

10:15 Coffee/ tea

10:45 Prof. Burkhard König (University of Regensburg, Germany)
"Better Organic Synthesis with Light"

11:25 Pim Broersen (University of Amsterdam)
"Emerging Strategies in Electrochemical C-N bond Forming Reactions"

Session 2: HRSMC theme 2 'Physical Chemistry and Spectroscopy'

Chair: Prof. dr. Sylvestre Bonnet

11:45 Prof. Richard Friend (University of Cambridge, UK)
"Spin Radical Organic Semiconductors"

12:25 Lunch – Poster session A

13:25 Adarsh Koovakattil Surendran (Radboud University)
"Integration of Mass Spectrometry in Electrochemical Research"

13:45 Prof. dr. Hans Jakob Wörner (ETH Zürich, Switzerland)
"Attosecond Spectroscopy: Observing Electrons in Motion"

14:25 Marlene Hoefnagel (Leiden University)
"Operando Characterization of the Cu-Catalyst Active Sites in Metal Organic Frameworks for Oxygen Reduction"

14:45 Coffee/ tea & Poster session B

Session 3: HRSMC theme 3 'Theoretical Chemistry'

Chair: *Prof. dr. Matthias Bickelhaupt*

15:45 Prof. Kendall N. Houk (University of California, CA)
"Frontiers of Pericyclic Reactions"

16:25 Dr. Celine Nieuwland (VU Amsterdam)
"Chalcogen Atom Size: A Key Parameter in Tuning Amide Hydrogen Bonding"

Session 4: Dick Stufkens Prize 2024

Chair: *Prof. dr. Wybren Jan Buma*

16:45 Dick Stufkens Prize winner introduction by Prof. dr. Ronald Hage (*Member External Advisory Committee HRSMC)*

16:55 Lecture by the winner of the Dick Stufkens Prize 2024: Dr. Chao Chun Hsu
"Mechanophore in Probing Local Information within Microscopic Mechanical Contacts"

17:25 Closure by Prof. dr. Peter van Tienderen (*Dean of the Faculty of Science, University of Amsterdam*)

17:35 Reception

18:30 End of day 1 and staff leaving for dinner

Programme November 15, 2024

08:30 Coffee/ tea & registration

Session 1: HRSMC theme 1 'Synthesis, Characterization, Reactivity, Properties of Molecules'

Chair: Dr. Bettina Baumgartner

08:45 Dr. Thomas Hansen (VU Amsterdam)
"Exploring Chemical Glycosylation Reactions: Can we Control Them?"

09:15 Dr. Irene Regeni (Leiden University)
"Ruthenium Peptide Bioconjugates for Photoactivated Chemotherapy"

Session 2: HRSMC theme 2 'Physical Chemistry and Spectroscopy'

Chair: Prof. dr. Irene Groot

09:35 Prof. dr. Katrien Keune (University of Amsterdam)
"Spectroscopic Imaging of Paintings from Macro- to Nanoscale"

10:05 Introduction PhD platform/PhD social activity

10:15 Coffee/ tea & Poster session C (End of the session: Voting for the best poster in research themes 1, 2 and 3)

11:10 Titus de Haas (Leiden University)
"Impact of Nuclear Dynamics on Photoinduced Hole Transfer in a P1/NiO Photocathode"

Session 3: HRSMC theme 3 'Theoretical Chemistry'

Chair: Dr. Pascal Vermeeren

11:30 Dr. Thanja Lamberts (Leiden University)
"Molecular Cocktails on the Rocks: Chemistry of Ices in Stellar Nurseries"

12:00 Massimiliano Paesani (University of Amsterdam)
"MetaParticles: Computationally Engineered Nanomaterials with Tunable and Responsive Properties"

12:20 Dr. Alexander Korotkevich (University of Amsterdam)
"AI for Development of Solid Salt Hydrates for Thermal Energy Storage"

Poster Prize Award and Closure

12:40 Poster Prize Award by Prof. dr. Matthias Bickelhaupt

12:50 Closure by Prof. dr. Wybren Jan Buma and lunch

13:45 Annual Staff Meeting