

Vlieland 2022

Strandhotel Seeduyn

Sunday, June 12

- 12:00 4 Busses depart for Harlingen Harbor from Zernikelaan at the Zernike complex (gather at the AH to Go, Bernoulliborg).
- 12:39 Train Groningen-Leeuwarden
- 14:05 Ferry leaves for Vlieland
- 16:00 Arrival at the hotel Seeduyn
- 17:20 **Opening remarks by Caspar van der Wal**

Session chair Tamalika Banerjee
 17:30-17:45 Low-Energy Photoluminescence in Layered Tin Halide Perovskites: *Unraveling the Impact of Diammonium Cations on the Structure and Its Photophysics*
 Eelco Tekelenburg (PhD, Loi, Photophysics and OptoElectronics)

17:45-18:00 Coatings/Synthesis and properties of fully biobased crosslinked starch oleate films
 Laura Boetje (PhD, Loos, Macromolecular Chemistry and New Polymeric Materials)

18:00-18:15 Spin and charge dynamics in 2D semiconductors under high magnetic fields
 Rafael Rojas Lopez (PhD, Guimaraes, Opto-spintronics of Nanostructures)

18:15-18:30 Coarse-grained molecular dynamics of molecular motors
 Petteri Vainikka (PhD, Marrink, Molecular Dynamics, GBB)

18:30 - 19:15 **FLASH Poster Session 1 — Chair: Richard Hildner**

19:40 *Dinner (afterwards time to put up the posters for poster session 1)*

21:30 **Session chair: Shirin Faraji**
Keynote Speaker: Theo Rasing (Spectroscopy of Solids and Interfaces, Radboud University)
OPTICAL CONTROL OF MAGNETISM from ultrafast switching to brain-inspired computing

Monday, June 13

7:00-8:30 Run, HIT, Martial arts, Walk (optional)

7:45-8:45 *Breakfast - Posters must be put up (1-45)*

Session chair Patrick Onck
 8:45-9:05 Advancing the Capabilities of Combined Optical Tweezers, Fluorescence and Microfluidics for Single-Molecule Protein Biophysics
 Kasia Tych (GBB, Chemical Biology)

9:05-9:20 Departure from randomness: evolution of self-replicators that self-sort through steric zipper formation
 Marcel Eleveld (PhD, Otto, System Chemistry, Stratingh)

9:20-9:35 STED microscopy for ESCRT-III Proteins in Archaea
 Frank Mol (PhD, Vlijm, Molecular and Cellular Scale Biophysics)

9:35-9:50 Neuromorphic Path Integration Inspired by the Ant Brain
 Thorben Schoepe, (PhD, Chicca, Bio-inspired Circuits & Systems)

9:50-10:05 Monte-Carlo modelling of hot-carriers in perovskite solar cells,
 Tim Faber (PhD, Koster, Physics of Novel Semiconductor and Devices)

10:05 *Coffee break + Poster session 1 (1-45)*

Session chair Jagoda Slawinska
 11:45-12:00 Cryogenic TEM Imaging of Out-of-Equilibrium Artificial Light-Harvesting Complexes
 Sundar Raj Krishnaswamy (PhD, Pchenitnikov, Ultrafast Dynamics in Molecular System)

12:00-12:15 Tracking Nanotube Self-Assembly in Real Time with TEM, linear dichroism, 2D Spectroscopy, and Multi-Scale Modeling
 Marick Manrho (PhD, Jansen, Computational Spectroscopy)

12:15-12:30 Liquid-liquid phase separation of intrinsically disordered FG-Nups is driven by hydrophobic FG-repeats
 Maurice Dekker (PhD, Onck, Micromechanics of Biological and Active Materials)

12:30-12:45 Nano-ARPES investigation of twisted bilayer WS₂
 Giovanna Feraco (PhD, Rudolf, Surfaces and Thin Films)

12:45 *Lunch + Free time (please remove posters session 1)*

Session chair Sijbren Otto
 15:45-16:05 Simplicity, Symmetry, & Feedback: Self-Regulated Motion in Microactuators
 Michael Lerch (Molecular Active Systems, Stratingh)

16:05-16:20 Elucidating the effect of hydration on structure and dynamics of hyaluronic acid in the extracellular matrix hydrogels by using solid state NMR
 Pushpa Rampratap (PhD, Van der Wel, Solid State Nuclear Magnetic Resonance)

16:20-16:35 Operando studies into the NiFe battery
 Winfried de Haas, (PhD, Tromp, Materials Chemistry)

16:35-16:50 Ferroelectric switching of spin to charge conversion in bulk WTe₂
 Homayoun Jafari (PhD, Slawinska, Computational Material Science)

16:50-17:35 **FLASH Poster Session 2 (Chair: Loredana Protesescu)**

17:35 *New posters must be put up (46-90)*

18:00 *Dinner*

20:30-21:30 Poster session 2 (46-90), please remove posters after the session

21:30 *Evening show*

Tuesday, June 14

7:00-8:30 Run, HIT, Martial arts, Walk (optional)

7:45-8:45 *Breakfast - Posters must be put up (91-145)*

Session chair Maria Loi
 8:45-9:05 Sustainable polymers and enzymatic polymerization: furans
 Dina Maniar (New Polymeric Materials, ZIAM)

9:05-9:20 Towards Metal Oxide Networks as Synaptic Materials
 Sanne Berg (PhD, Noheda, Nanostructures of Functional Oxides)

9:20-9:35 Coexistence of magnetic phases in SrMnO₃ thin films revealed by phase shifted angle dependent Spin Hall Magnetoresistance
 Job van Rijn (PhD, Banerjee, Spintronics of Functional Materials)

9:35-10:10 **FLASH Poster Session 3 (Chair: Patrick van der Wel)**

10:10 Preparations for departure (vacating rooms / handing over keys, etc.)

11:00 *Coffee break + Poster session 3 (91-145)*

Session chair Marleen Kamperman
 12:00-12:15 Lateral membrane organization as antimicrobial target
 Adéla Melcrova (PD, Roos, Molecular Biophysics)

12:15-12:30 Growth and Nanostructure of Antimonide Thin Films and Heterostructures for Memory and Nanophotonic Devices
 Daniel T. Yimam (PhD, Kooi, Nanostructured Materials and Interfaces)

12:30-12:45 Influence of solvent exposure on clear, soft polyurethane and polyacrylate coatings
 Gabor Ersek (PhD, Portale, Physical Chemistry of polymeric and nanostructured materials)

12:45-13:00 Understanding the Chemistry and Physics of Tin Halide Perovskites at Nanoscale
 Kushagra Gahlot (PhD, Protesescu, Nanomaterial Chemistry)

13:00 *Hot lunch*

Session chair Elisabetta Chicca
 14:05-14:20 Remarkable isotope effects in collisions of Sn³⁺ with H₂ and D₂
 Subam Rai (PhD, Hoekstra, Quantum Interactions and Structural Dynamics)

14:20-14:35 Trichome Mimics as an Alternative to Chemical Pesticides
 Abinaya Arunachalam (PhD, Kamperman, Polymer Science)

14:35-14:50 Distinguishing Aggregate Species in Metal-Centered Supramolecular Porphyrin-Based Polymers
 Ioannis Touloupas (PhD, Hildner, Optical Spectroscopy of Functional Nanosystems)

14:50 *Coffee break, Taking poster down, Poster Prize Award Ceremony. Flash poster session and Oral contribution winners + Closing remarks*

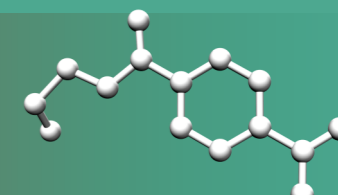
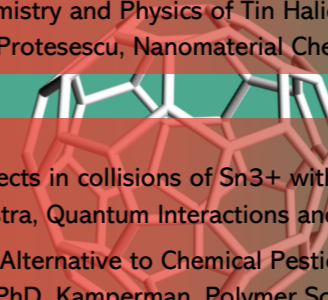
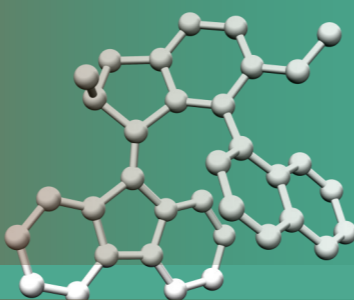
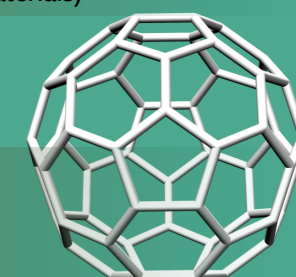
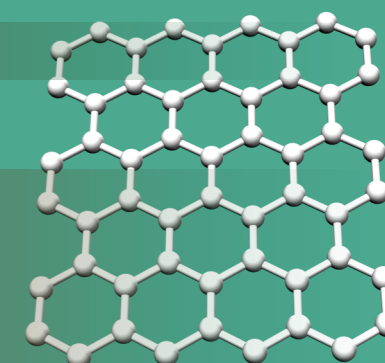
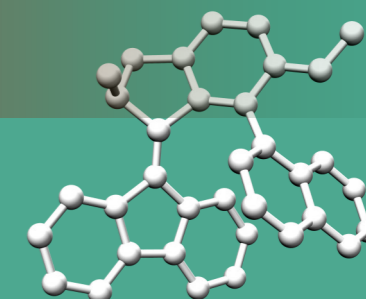
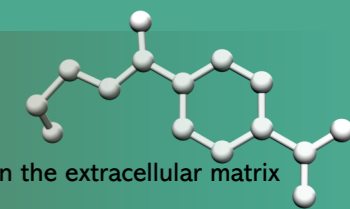
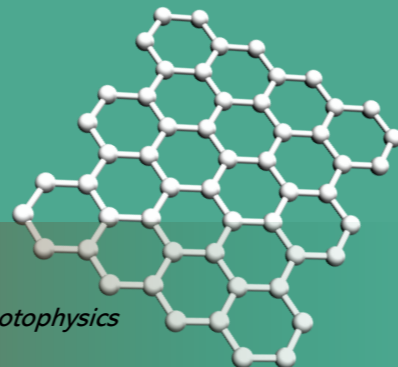
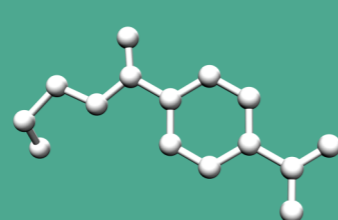
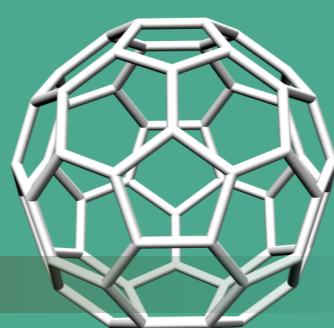
16:00 **Departure from Hotel**

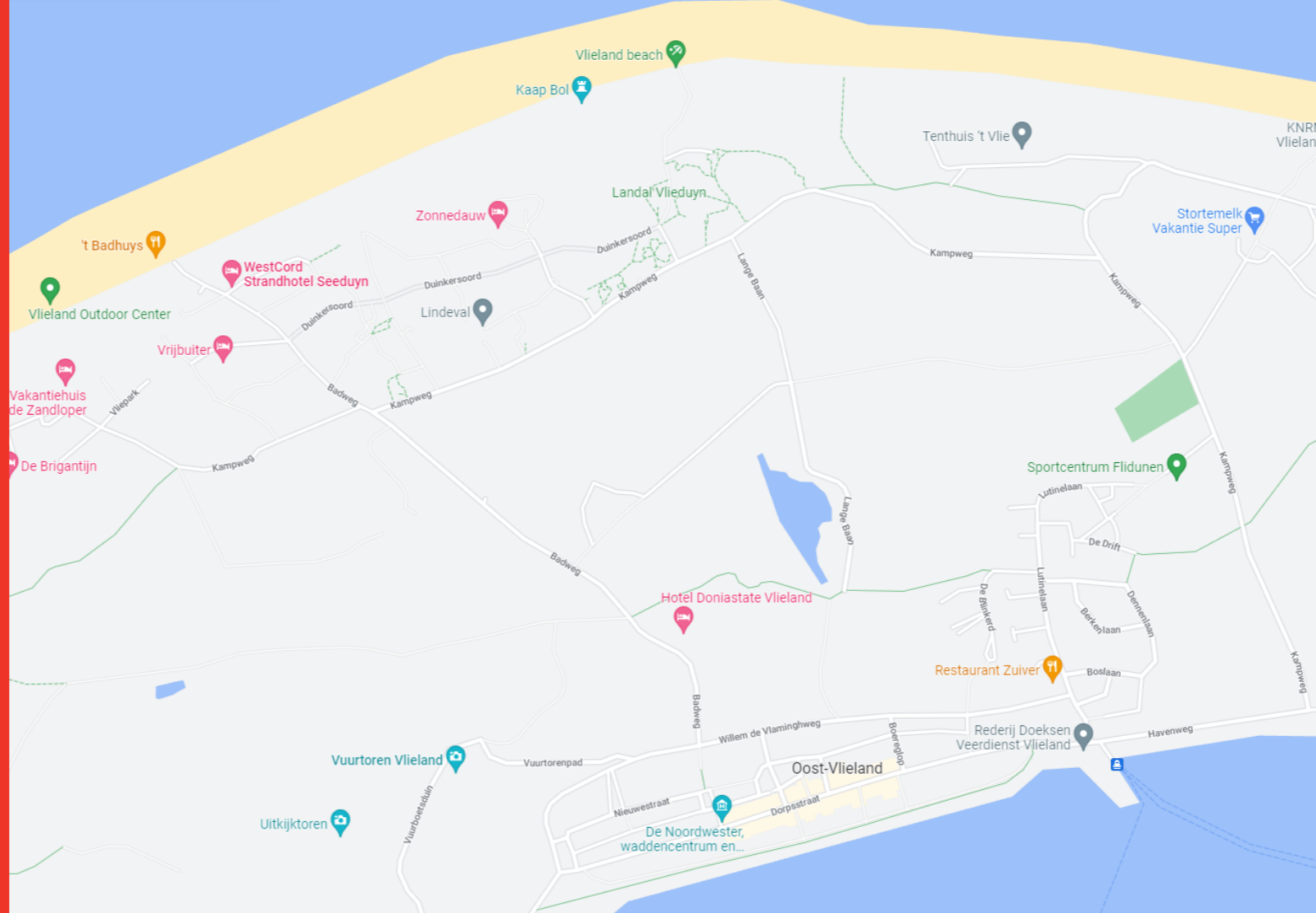
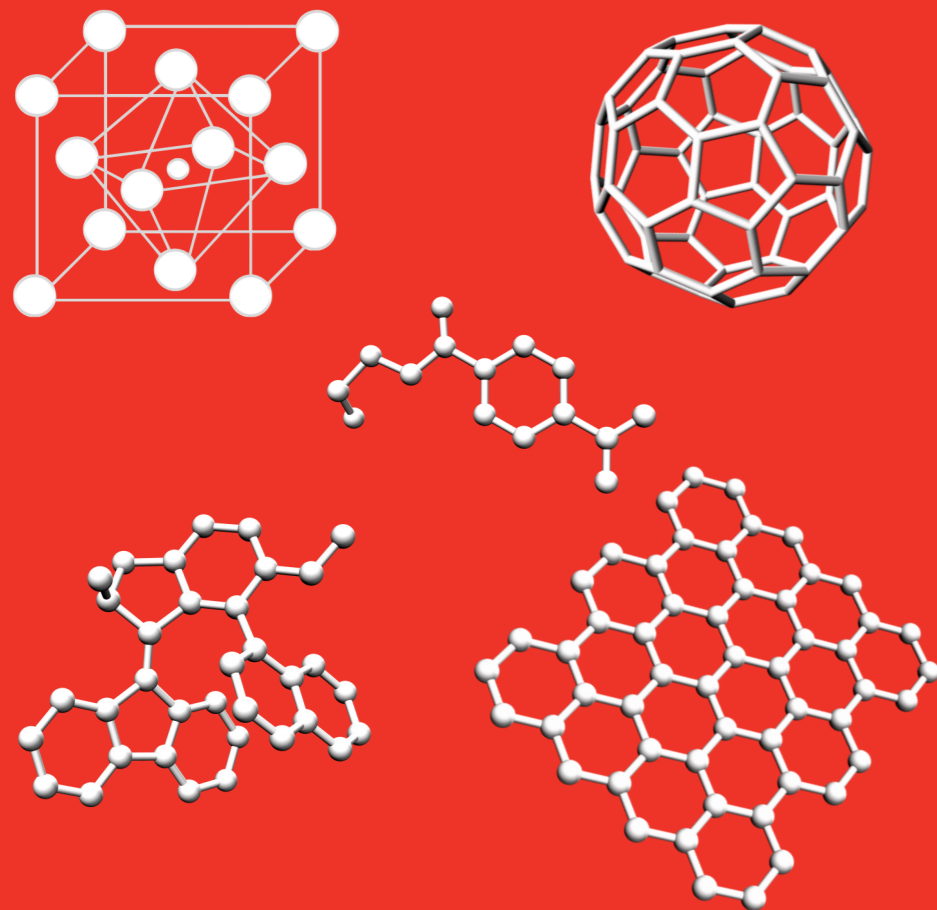
16:50 Ferry leaves for Harlingen Harbor

18:30 Busses depart for Groningen

18:47 Train Harlingen-Groningen

20:00 Arrival at Groningen Zernike





Organising committee

Shirin Faraji *Chair*

Elisabetta Chicca

Andrea Giuntoli

Tibor Kudernác

Elisa Palacino González

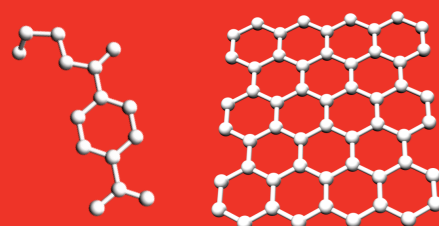
Dennis de Wal

Jeannette de Boer

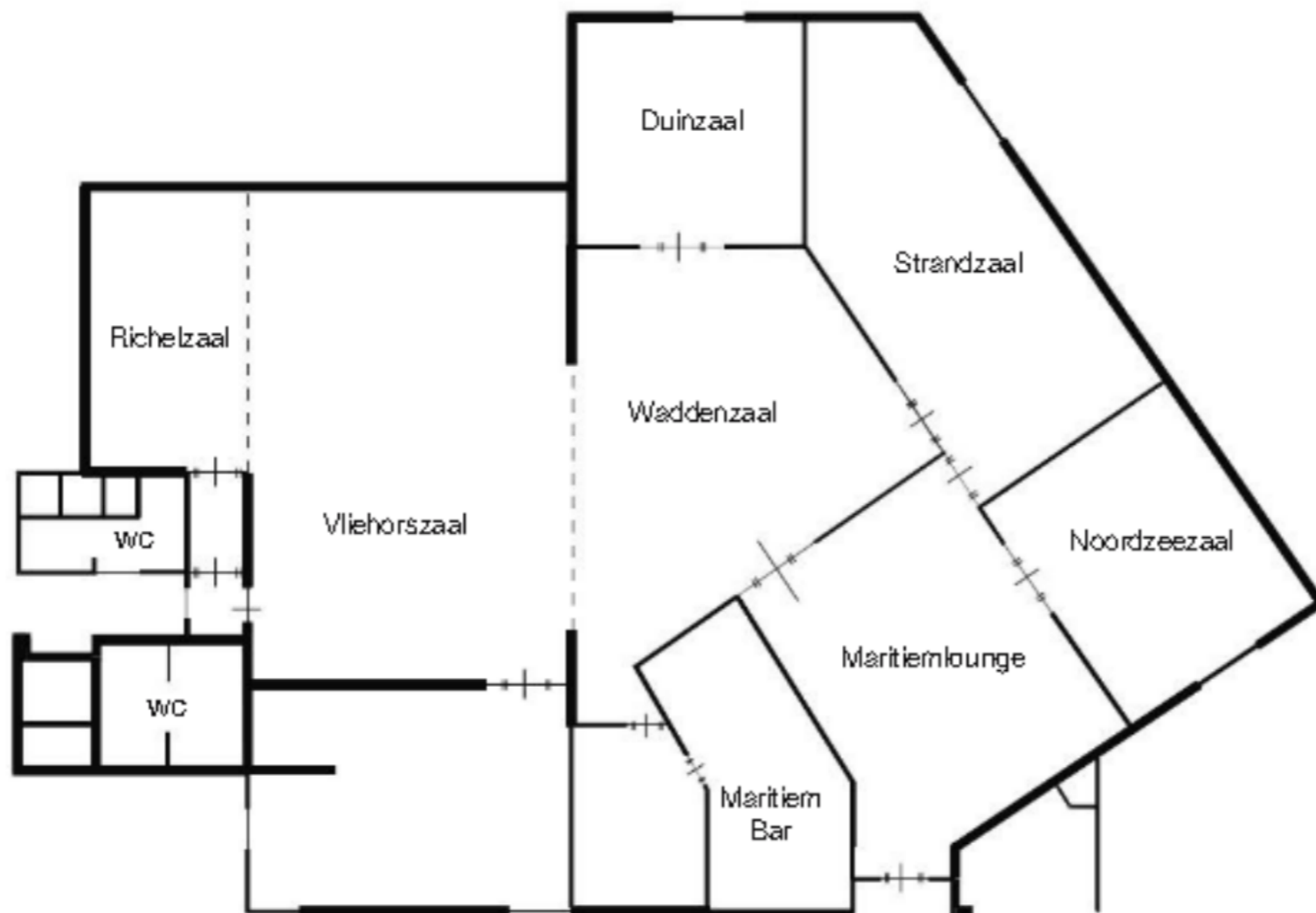
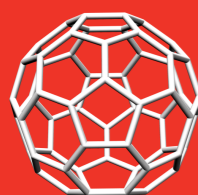


university of
groningen

zernike institute for
advanced materials



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We are very happy to have you joining us for this biennial meeting on material-related research of the Zernike Institute for Advanced Materials, the Stratingh Institute for Chemistry and the Groningen Biomolecular Sciences and Biotechnology Institute. We hope you will have a very interesting and informative 3 days with lots of fun social interactions!

The organising committee