

Thursday, July 11

17:00	<b>Opening ceremony</b> <i>Room: Margarinfabrikken 1+2+3</i>
	<b>Plenary lectures</b> <i>Room: Margarinfabrikken 1+2+3</i> <b>Chair: F. Jensen</b>
17:30	<b>Sharon Hammes-Schiffer</b> <i>Multicomponent Quantum Chemistry: Integrating Electronic and Nuclear Quantum Effects</i>
18:15	<b>Trygve Helgaker</b> <i>Egil Hylleraas — A Pioneer of Computational Quantum Mechanics</i>
19:00	<b>Welcome reception</b> <i>Room: Margarinfabrikken 1+2+3</i>

Friday, July 12

	<b>Plenary lectures</b> <i>Room: Margarinfabrikken 1+2+3</i> <b>Chair: P. Szalay</b>
8:30	<b>Peter Schwerdtfeger</b> <i>The Year of the Periodic Table - Going Superheavy</i>
9:15	<b>Sylvio Canuto</b> <i>Environment Contribution to Molecular Spectroscopy, Reactivity and Photochemistry</i>

	<b>Large-scale electronic structure models of materials</b> <i>Room: Margarinfabrikken 1</i> <b>Chair: T. Heine</b>	<b>Machine learning and data-driven approaches in chemical physics</b> <i>Room: Margarinfabrikken 2</i> <b>Chair: A. Aspuru-Guzik</b>	<b>Multiscale modeling including focussed models</b> <i>Room: Margarinfabrikken 3</i> <b>Chair: B. Mennucci</b>	<b>Aspect of Heavy-Element Chemistry</b> <i>Room: Arbeidskontoret</i> <b>Chair: T. Saue</b>
10:30	<b>Ilaria Ciofini</b> <i>Modeling Photo-Responsive systems using combined classical and DFT approaches</i>	<b>Pavlo Dral</b> <i>Quantum Chemistry Assisted by Machine Learning</i>	<b>Oleg Prezhdo</b> <i>Time-Domain Modeling of Excited State Dynamics in Halide Perovskites</i>	<b>Thomas Albrecht-Schmitt</b> <i>An Unexpected Route to the Formation of Covalent Bonds in Cerium and Berkelium Coordination Complexes</i>
11:00	<b>Shuhua Li</b> <i>Generalized energy-based fragmentation approach for large molecules and condensed phase systems</i>	<b>Cecilia Clementi</b> <i>Machine Learning Models for Biomolecular Dynamics</i>	<b>Damien Laage</b> <i>Water at electrified graphene interfaces: structure, dynamics, vibrational SFG spectroscopy and consequences for electron transfer reactions</i>	<b>Katharina Boguslawski</b> <i>Simplified Coupled Cluster Methods for f0 Actinide Compounds</i>
11:30	<b>Petko Petkov</b> <i>Computational modeling of H/H+ migration in porous and layered materials</i>	<b>Marivi Fernandez-Serra</b> <i>Machine learning a highly accurate exchange and correlation functional of the electronic density</i>	<b>Dominika Zgid</b> <i>Finite temperature Green's function theories for periodic systems</i>	<b>Han-Shi Hu</b> <i>Bonding Pattern Change Induced by Relativistic Effects</i>
12:00	<b>Jianping Xiao</b> <i>Toward Computational Design of Catalysts for CO2 Selective Reduction via Reaction Phase Diagram Analysis</i>	<b>Koji Tsuda</b> <i>Expanding the horizon of automated metamaterials discovery via quantum annealing</i>	<b>Thomas Markland</b> <i>Accurate and Efficient Non-adiabatic Quantum Dynamics using Master Equations</i>	<b>Michael Patzschke</b> <i>Combined computational and spectroscopic analysis of tetravalent f-element complexes</i>
	<b>Molecular properties and interactions</b> <i>Room: Margarinfabrikken 1+2</i> <b>Chair: A. Rizzo</b>	<b>Multiscale modeling including focussed models</b> <i>Room: Margarinfabrikken 3</i> <b>Chair: S. Höfener</b>	<b>Aspect of Heavy-Element Chemistry</b> <i>Room: Arbeidskontoret</i> <b>Chair: R. Berger</b>	
14:00	<b>Alston Misquitta</b> <i>Can we derive many-body non-additive polarization energies from 1-body properties and 2-body energies only?</i>	<b>Filippo Lipparini</b> <i>A general linear scaling implementation for polarizable embedding methods</i>	<b>Luuk Visscher</b> <i>Relativistic coupled cluster for a new generation of supercomputers</i>	
14:30	<b>Krzysztof Szalewicz</b> <i>From molecular properties to intermolecular interaction potentials</i>	<b>Jean-Philip Piquemal</b> <i>Scalable polarizable molecular dynamics using Tinker-HP</i>	<b>Andre Severo Pereira Gomes</b> <i>Relativistic equation of motion coupled cluster based on four-component Hamiltonians</i>	
15:00	<b>Andreas Hesselmann</b> <i>Intermolecular interaction energies from fourth order many-body perturbation theory. Impact of individual electron correlation contributions</i>	<b>Debashree Ghosh</b> <i>Photo-processes in biological systems – Need for hybrid QM/MM with polarization</i>	<b>Hiroimi Nakai</b> <i>Relativistic density functional theory with picture-change corrected electron density</i>	
15:30	<b>Malgorzata M. Szczesniak</b> <i>New Meta-GGA "Workhorses" in Transition Metal Chemistry and SAPT</i>	<b>Ksenia Bravaya</b> <i>Simulating Electron Transfer in Biomolecules: the Role of Polarization and Long-range Electrostatic Interactions</i>	<b>Florian Weigend</b> <i>NMR Shielding Tensors and Shifts in the Local Exact Two-Component Theory</i>	
	<b>Emergent electronic structure methods</b> <i>Room: Margarinfabrikken 1+2</i> <b>Chair: G. Scuseria</b>	<b>Path-integral methods</b> <i>Room: Margarinfabrikken 3</i> <b>Chair: F. Paesani</b>	<b>90 years of r12: Hylleraas symposium</b> <i>Room: Arbeidskontoret</i> <b>Chair: W. Klopper</b>	
16:30	<b>Ali Alavi</b> <i>Non-unitary Quantum Chemistry</i>	<b>David Ceperley</b> <i>Melting of the 2D Wigner Crystal</i>	<b>Edit Matyus</b> <i>Ultra-precise computations for molecular paradigms</i>	
17:00	<b>Cyrus Umrigar</b> <i>Semistochastic Heatbath Configuration Interaction Method and Orbital Optimization</i>	<b>Mark Tuckerman</b> <i>A path-integral sampling (trajectory-free) approach to the calculation of quantum time correlation functions</i>	<b>Kirk Peterson</b> <i>On the Development of Accurate Gaussian Basis Sets for f-Block Elements - Initial Efforts for F12 Correlation Consistent Basis Sets for Uranium</i>	
17:30	<b>Eric Neuscamman</b> <i>Variational Excited States in DFT, QMC, and Quantum Chemistry</i>	<b>Jian Liu</b> <i>Path integral Liouville dynamics &amp; a unified framework for path integral molecular dynamics</i>	<b>David Tew</b> <i>Principal Domains in Local Correlation Theory</i>	
18:00	<b>Sandeep Sharma</b> <i>Polynomial scaling multireference methods</i>	<b>Nancy Makri</b> <i>Modular Quantum and Rigorous Quantum-Classical Real-Time Path Integral Methods</i>	<b>Hans-Joachim Werner</b> <i>Explicitly correlated local coupled-cluster methods for large molecules</i>	

Saturday, July 13	<b>Plenary lectures</b> Room: Margarinfabrikken 1+2+3 Chair: P. Surjan			
8:30	<b>Peter Gill</b> <i>Q-MP2-OS: A new approach to correlation using quadrature</i>			
9:15	<b>Peter Saalfrank</b> <i>Molecules driven by light: Electron and nuclear dynamics</i>			
	<b>Physical organic chemistry and catalysis</b> Room: Margarinfabrikken 1 Chair: V. Jensen	<b>Machine learning and data-driven approaches in chemical physics</b> Room: Margarinfabrikken 2 Chair: C. Clementi	<b>From picoseconds to attoseconds: Nuclear and electron dynamics</b> Room: Margarinfabrikken 3 Chair: D. Clary	<b>Aspect of Heavy-Element Chemistry</b> Room: Arbeidskontoret Chair: W. Liu
10:30	<b>Robert Paton</b> <i>New Mechanisms and Concepts for Organic Reactivity and Enantioselectivity From Computations</i>	<b>Olexandr Isayev</b> <i>Neural networks learning quantum chemistry</i>	<b>Todd J. Martinez</b> <i>Potential Energy Surfaces and Nonadiabatic Dynamics in Photoactive Proteins from First Principles</i>	<b>Stefaan Cottenier</b> <i>Po-containing molecules in fission and fusion reactors</i>
11:00	<b>Kathrin Hopmann</b> <i>Is Your Mechanism Correct? Insights into Hydrogenation and Carboxylation Reactions</i>	<b>Johannes Hachmann</b> <i>A Machine Learning Shortcut to Physics-Based Modeling and Simulations</i>	<b>Regina de Vivie-Riedle</b> <i>Photostability of Uracil affected by RNA environment or shaped light</i>	<b>Helene Bolvin</b> <i>Magnetic coupling between f centers from first principles</i>
11:30	<b>Per-Ola Norrby</b> <i>Selectivity models for chemical synthesis</i>	<b>Alexandre Tkatchenko</b> <i>Towards Exact Molecular Dynamics Simulations with Quantum Chemistry and Machine Learning</i>	<b>Leticia Gonzalez</b> <i>Excited state dynamics of transition metal complexes using efficient trajectory surface hopping methods</i>	<b>Juha Vaara</b> <i>Computations of Small Physical Effects in Nuclear Magnetic Resonance</i>
12:00	<b>Benedetta Menucci</b> <i>The protein is the key: the unique chemistry of biological pigments revealed by a multiscale strategy</i>	<b>Volker Deringer</b> <i>From Machine-Learning Interatomic Potentials to Atomic-Scale Materials Science</i>	<b>Graham Worth</b> <i>Simulating Non-adiabatic Photochemistry using Grids and Gaussians</i>	<b>Michal Jaszunski</b> <i>Nuclear magnetic dipole moments from NMR experiments</i>
	<b>ERC session</b> Room: Margarinfabrikken 2			
12:45-13:45	<b>Daniele Mammoli (ERC)</b> <i>European Research Council session</i>			
	<b>90 years of r12: Hylleraas symposium</b> Room: Margarinfabrikken 1 Chair: T. Helgaker	<b>Molecular properties and interactions</b> Room: Margarinfabrikken 2 Chair: D. Wilson	<b>Path-integral methods</b> Room: Margarinfabrikken 3 Chair: T. Miller	
14:00	<b>Angela Wilson</b> <i>Resolution-of-the-Identity and Beyond</i>	<b>Katharine Hunt</b> <i>New ab initio results for interaction-induced dipoles and susceptibilities and new analytical results for transition probabilities</i>	<b>Stuart Althorpe</b> <i>Real-time dynamics from imaginary-time path-integrals: theory and practice</i>	
14:30	<b>Florian Bischoff</b> <i>Explicitly Correlated Coupled-Cluster in Real Space</i>	<b>Jacob Kongsted</b> <i>Polarizable Density Embedding for Proteins: Excited States in Complex Environments</i>	<b>David Manolopoulos</b> <i>Path integral methods for reaction rates</i>	
15:00	<b>Andreas Grüneis</b> <i>Recent progress in applying periodic coupled cluster theory to solids and surfaces</i>	<b>Toon Verstraelen</b> <i>Modeling Weak Interactions With Spherical Atomic Electron Densities</i>	<b>Joseph Lawrence</b> <i>On the calculation of quantum mechanical electron transfer rates</i>	
15:30	<b>Andreas Köhn</b> <i>Computing molecular properties in multireference coupled-cluster theory</i>	<b>Denis Jacquemin</b> <i>Searching for Super-Accuracy in Excited State Calculations</i>	<b>Jeremy Richardson</b> <i>Nonadiabatic quantum transition-state theory</i>	
	<b>Aspect of Heavy-Element Chemistry</b> Room: Margarinfabrikken 1 Chair: P. Pykkö	<b>Emergent electronic structure methods</b> Room: Margarinfabrikken 2 Chair: A. Szabados	<b>Multiscale modeling including focussed models</b> Room: Margarinfabrikken 3 Chair: L. Slipchenko	
16:30	<b>Aurora Clark</b> <i>Heavy Element Solution Chemistry – A Sojourn Through Ideal and Non-Ideal Solutions and Their Interfaces</i>	<b>Piotr Piecuch</b> <i>Toward Exact Quantum Chemistry by a Combination of Stochastic Wave Function Sampling and Deterministic Coupled-Cluster Computations</i>	<b>Aurelien de la Lande</b> <i>Toward First Principles Simulations of Biological Matter under Ionizing Radiations</i>	
17:00	<b>Jochen Autschbach</b> <i>Chemical bonding, core spectroscopy, and magnetic properties of actinide complexes</i>	<b>Gustavo Scuseria</b> <i>Quantum Chemistry for Strong Correlation</i>	<b>Joachim Sauer</b> <i>Ab initio Free Energy Calculations with Chemical Accuracy for Molecule - Surface Interactions</i>	
17:30	<b>Xiaosong Li</b> <i>Spin-Orbit Symmetry Breaking and Restoring in Kramers-Unrestricted Multireference Approaches</i>	<b>Paola Gori-Giorgi</b> <i>Strong-coupling limit in DFT and Hartree-Fock: kinetic correlation energy and dispersion</i>	<b>Chao-Ping Hsu</b> <i>Machine learning for electron-transfer couplings</i>	
18:00	<b>Michal Repisky</b> <i>All-electron relativistic four-component Dirac-Kohn-Sham theory for solids using Gaussian-type functions</i>	<b>Laura Gagliardi</b> <i>Multireference Methods for Extended Systems</i>	<b>Rosa Bulo</b> <i>Multi-scale Modeling of Chemistry in Water</i>	
19:00	<b>Poster session 1</b>			
	<b>Posters 1-14:</b> On the walls outside Margarinfabrikken 1+2+3	<b>Posters 25-42:</b> In the meeting room Prostneset	<b>Posters 59-74:</b> In the meeting room Kjøpmannskontoret	
	<b>Posters 15-24:</b> On the walls of the meeting room Skarven	<b>Posters 43-58:</b> In the meeting room Importkompaniet	<b>Posters 75-139:</b> In the room Arbeidskontoret 1+2	
Sunday, July 14	<b>Machine learning and data-driven approaches in chemical physics</b> Room: Margarinfabrikken 1+2 Chair: P. Dral	<b>Molecular properties and interactions</b> Room: Margarinfabrikken 3 Chair: G. Chalasiński	<b>Computational biophysics</b> Room: Arbeidskontoret Chair: M. Ramos	
8:30	<b>Şule Atahan-Evrenk</b> <i>Prediction of Intramolecular Reorganization Energy Using Machine Learning</i>	<b>Berta Fernandez</b> <i>Pursuing accuracy in intermolecular potentials and spectra</i>	<b>Helmut Grubmüller</b> <i>Atomistic Simulation of Biomolecular Function: Ribosomal Translation, Ligand Binding Heterogeneity, and a Dynasome Perspective</i>	
9:00	<b>Thomas Heine</b> <i>Challenges for automated materials discovery</i>	<b>Patrick Norman</b> <i>VeloxChem: an efficient implementation of real and complex response functions at the level of Kohn-Sham density functional theory</i>	<b>Nathalie Reuter</b> <i>Interfacial choline-aromatic cation-<math>\pi</math> interactions can contribute as much to peripheral protein affinity for membranes as aromatics inserted below the phosphates</i>	
9:30	<b>Alan Aspuru-Guzik</b> <i>The Materials for Tomorrow, Today</i>	<b>Sonia Coriani</b> <i>Molecular Properties and Interactions: A Wonderful Playground for a Theoretical Chemist</i>	<b>Teresa Head-Gordon</b> <i>How to Make an Enzyme: Computational Optimization of Electric Fields for Better Catalysis Design</i>	

Sunday, July 14	<b>Computational spectroscopy: from X-rays to microwaves</b> Room: Margarinfabrikken 1+2 Chair: H. Ågren	<b>Path-integral methods</b> Room: Margarinfabrikken 3 Chair: T. Markland	<b>90 years of r12: Hylleraas symposium</b> Room: Arbeidskontoret Chair: M. Hoffman
10:30	<b>Shaul Mukamel</b> <i>Ultrafast spectroscopy and imaging of molecules with classical, quantum, and noisy x-ray pulses</i>	<b>Angelos Michaelides</b> <i>Towards an improved understanding of interfacial water</i>	<b>Anna-Sophia Hehn</b> <i>Explicitly correlated wave function approaches based on the random phase approximation</i>
11:00	<b>Malgorzata Biczysko</b> <i>From spectroscopic signatures to 3-D structure of protein building blocks</i>	<b>Mariana Rossi</b> <i>Anharmonic Nuclear Quantum Effects and their Interplay with the Electronic Structure of Weakly Bonded Systems</i>	<b>Seiichiro L. Ten-no</b> <i>Explicitly correlated F12 theory on modern electronic structure calculations</i>
11:30	<b>Jonathan Tennyson</b> <i>The ExoMol project: molecular line lists for the opacity of exoplanets and other hot atmospheres</i>	<b>Michele Ceriotti</b> <i>Efficient Modeling of Thermal and Quantum Fluctuations in Materials and Molecules</i>	<b>Jan M. L. Martin</b> <i>Do CCSD and Approximate CCSD-F12 Variants Converge to the Same Basis Set Limits? The Case of Atomization Energies</i>
12:00	<b>Elke Fasshauer</b> <i>Time-Resolved Measurement of Interparticle Coulombic Decay Processes</i>	<b>Francesco Paesani</b> <i>Nuclear Quantum Effects in Ion-Mediated Hydrogen-Bond Rearrangements</i>	<b>Ludwik Adamowicz</b> <i>Quantum-mechanical non-Born-Oppenheimer calculations of small atoms and molecules</i>

Monday, July 15	<b>Plenary lectures</b> Room: Margarinfabrikken 1+2+3 Chair: R. Broer			
8:30	<b>Thomas F. Miller</b> <i>Classical and Machine-Learning Methods for Quantum Simulation</i>			
9:15	<b>Irene Burghardt</b> <i>High-Dimensional Quantum Dynamics of Functional Organic Polymer Materials: Coherence, Confinement, and Disorder</i>			
	<b>Large-scale electronic structure models of materials</b> Room: Margarinfabrikken 1 Chair: D. Fedorov	<b>Emergent electronic structure methods</b> Room: Margarinfabrikken 2 Chair: J. Pittner	<b>Molecular properties and interactions</b> Room: Margarinfabrikken 3 Chair: K. Szalewicz	<b>Computational biophysics</b> Room: Arbeidskontoret Chair: P. Imhof
10:30	<b>Volker Blum</b> <i>Accurate, Scalable All-Electron Theory Across the Periodic Table: Organics, Inorganics, Hybrids</i>	<b>Claudia Filippi</b> <i>The force awakens in quantum Monte Carlo</i>	<b>Stefan Grimme</b> <i>New Tight-Binding Quantum Chemistry Methods for the Exploration of Chemical Space</i>	<b>Madhurima Jana</b> <i>Stability of Proteins in Solutions: A Microscopic Investigation on the Role of Surrounding Water/Cosolvent</i>
11:00	<b>Christian Ochsenfeld</b> <i>Quantum-chemical methods for biochemical systems</i>	<b>Brenda Rubenstein</b> <i>Ab Initio Finite Temperature Auxiliary Field Quantum Monte Carlo for Solids</i>	<b>Lyudmila Slipchenko</b> <i>Polarizable embedding for biological systems: Modeling photoactive proteins with the Effective Fragment Potential method</i>	<b>Michele Cascella</b> <i>Simulating Biological Systems Coupling Particles and Fields with Molecular Dynamics</i>
11:30	<b>Joost VandeVondele</b> <i>Linear scaling DFT accelerated with GPUs and ML</i>	<b>Fabien Bruneval</b> <i>The linearized GW density matrix</i>	<b>Attila Csaszar</b> <i>Quasistructural molecules</i>	<b>Mikko Karttunen</b> <i>Computational modelling of cellulose and its modifications</i>
12:00	<b>Steven G. Louie</b> <i>Many-electron Correlations in Multi-particle Excitations and Nonlinear Optical Processes in Materials</i>	<b>Katarzyna Pernal</b> <i>Dynamic Correlation for CASSCF Reference with Adiabatic Connection Approaches: Open Shell Systems and Dispersion Interaction</i>	<b>Tatiana Korona</b> <i>On the Applicability of Various Partitioning Schemes to Intermolecular Interactions</i>	<b>Monika Fuxreiter</b> <i>Conformational heterogeneity in enzymatic catalysis and evolution</i>
	<b>Physical organic chemistry and catalysis</b> Room: Margarinfabrikken 1 Chair: M. Podewitz	<b>From picoseconds to attoseconds: Nuclear and electron dynamics</b> Room: Margarinfabrikken 2 Chair: L. Gonzalez	<b>Ultracold chemical physics</b> Room: Margarinfabrikken 3 Chair: B. Jeziorski	
14:00	<b>Satoshi Maeda</b> <i>Systematic Generation and Analysis of Reaction Path Networks by the Artificial Force Induced Reaction Method</i>	<b>Fernando Martin</b> <i>Attosecond pump-probe spectroscopy of molecular electron dynamics</i>	<b>Guido Pupillo</b> <i>Cavity-induced collective dissipation for cold chemistry</i>	
14:30	<b>Natalie Fey</b> <i>CatLab – Putting calculation before experiment in organometallic catalysis</i>	<b>Eberhard Gross</b> <i>Potential energy surfaces and Berry phases from the exact factorization: A rigorous approach to non-adiabatic dynamics</i>	<b>Olivier Dulieu</b> <i>Ultracold doubly-polar molecules: on the way to create them via a Laser-Assisted Self-induced Feshbach Resonance</i>	
15:00	<b>Markus Reiher</b> <i>Quantum Chemical Exploration of Catalytic Reaction Networks</i>	<b>Nina Rohringer</b> <i>Stimulated X-Ray Emission Spectroscopy for Chemical Analysis</i>	<b>Robert Moszynski</b> <i>New physics with ultracold strontium molecules</i>	
15:30	<b>Heather J. Kulik</b> <i>Transition metal catalyst discovery with high-throughput screening and machine learning</i>	<b>Boutheina Kerkeni</b> <i>Understanding H<sub>2</sub> Formation on hydroxylated nanopyrrolylene clusters: Ab initio Study of the Reaction Energetics and Kinetics</i>	<b>Svetlana Kotochigova</b> <i>Nonadiabatic Transitions via Conical Intersections in Ultracold Chemical Reactions</i>	
	<b>Computational spectroscopy: from X-rays to microwaves</b> Room: Margarinfabrikken 1 Chair: B. Durbbeej	<b>Emergent electronic structure methods</b> Room: Margarinfabrikken 2 Chair: S. Goedecker	<b>Path-integral methods</b> Room: Margarinfabrikken 3 Chair: D. Manolopoulos	
16:30	<b>Julien Bloino</b> <i>A Virtual Spectrometer to Predict and Interpret Vibrational Spectra</i>	<b>Steven R. White</b> <i>Multisliced Gausslets Bases for Electronic Structure</i>	<b>Barak Hirshberg</b> <i>Path Integral Molecular Dynamics for Bosons</i>	
17:00	<b>Tucker Carrington</b> <i>Collocation methods for computing vibrational spectra</i>	<b>Garnet Chan</b> <i>Progress in quantum embedding in the condensed phase</i>	<b>Seogjoo Jang</b> <i>Quantum Fokker-Planck equation with positive definiteness condition via path integral influence functional formalism</i>	
17:30	<b>Ad van der Avoird</b> <i>Spectra of O<sub>2</sub> induced by collisions with N<sub>2</sub> and O<sub>2</sub></i>	<b>Philippe Corboz</b> <i>Simulation of strongly correlated systems with 2D tensor networks</i>	<b>Pierre-Nicholas Roy</b> <i>Quantum dynamics of confined molecules</i>	
18:00	<b>Fabien Gatti</b> <i>The polyspherical approach: recent applications to spectroscopy</i>	<b>Örs Legeza</b> <i>Attosecond electron dynamics via tensor network state methods in strongly correlated molecular systems</i>	<b>Gregory A. Voth</b> <i>Coarse-graining of Feynman Path Integrals in Statistical Mechanics</i>	
19:00	<b>Poster session 2</b>			
	<b>Posters 1-14:</b> On the walls outside Margarinfabrikken 1+2+3		<b>Posters 59-74:</b> In the meeting room Kjøppmannskontoret	
	<b>Posters 15-24:</b> On the walls of the meeting room Skarven		<b>Posters 43-58:</b> In the meeting room Importkompaniet	
			<b>Posters 75-139:</b> In the room Arbeidskontoret 1+2	

<b>Tuesday, July 16</b>		<b>Plenary lectures</b> Room: Margarinfabrikken 1+2+3 Chair: <b>D. Crawford</b>		
8:30	<b>Giulia Galli</b> <i>Simulating energy conversion processes from first principles</i>			
9:15	<b>Zhigang Shuai</b> <i>Density matrix renormalization group: time-dependent formalism, light-emitting, carrier transport, and singlet fission</i>			
	<b>Physical organic chemistry and catalysis</b> Room: Margarinfabrikken 1 Chair: <b>O. Eisenstein</b>	<b>Large-scale electronic structure models of materials</b> Room: Margarinfabrikken 2 Chair: <b>M. Mayes</b>	<b>Ultracold chemical physics</b> Room: Margarinfabrikken 3 Chair: <b>J. Hutson</b>	<b>Janos Ladik memorial symposium</b> Room: Arbeidskontoret Chair: <b>A. Bende</b>
10:30	<b>Yousung Jung</b> <i>Catalysts Discovery and Understanding with Computational and Data-Driven Approaches</i>	<b>Helio A. Duarte</b> <i>Unveiling the chemical reactivity of sulfide mineral surfaces in the presence of water and oxygen</i>	<b>Paul Julienne</b> <i>Calculations of three body recombination and dimer product distributions from ultracold atomic collisions</i>	<b>Rodney J. Bartlett</b> <i>The devil's triangle in KS-DFT calculations and how to fix it</i>
11:00	<b>Carine Michel</b> <i>Modeling reactivity at the catalyst/water interface</i>	<b>Johannes Neugebauer</b> <i>Exact Subsystem Time-Dependent Density-Functional Theory</i>	<b>John Bohn</b> <i>Ultracold Collisions of Polyatomic CaOH Molecules</i>	<b>Alia Tadjer</b> <i>Molecular modelling of hybrid-ion batteries</i>
11:30	<b>Hai Lin</b> <i>Simulations of Ion Solvation and Transfer by Adaptive-Partitioning QM/MM Dynamics</i>	<b>Marcus Elstner</b> <i>Multi-scale methods for electron and exciton transfer in biological and organic materials</i>	<b>Robin Cote</b> <i>Optical production of polyatomic complex in ultracold regime</i>	<b>Martin Quack</b> <i>Fundamental and approximate symmetries, parity violation and tunnelling in chiral and achiral molecules</i>
12:00	<b>Michelle Coote</b> <i>Catalyzing and Controlling Chemical Reactions with Electric Fields</i>	<b>Tsuyoshi Miyazaki</b> <i>Linear-scaling DFT simulations of complex nano-structured materials using the CONQUEST code</i>	<b>Tijs Karman</b> <i>Collisional loss of ultracold molecules</i>	<b>Cleanthes Nicolaiades</b> <i>Attosecond-resolved Quantum Chemistry: Predictions from the early years and comparison with recent experiments</i>
	<b>Emergent electronic structure methods</b> Room: Margarinfabrikken 1+2 Chair: <b>C. Hättig</b>	<b>Computational spectroscopy: from X-rays to microwaves</b> Room: Margarinfabrikken 3 Chair: <b>V. Liegeois</b>	<b>Computational biophysics</b> Room: Arbeidskontoret Chair: <b>B. Brandsdal</b>	
14:00	<b>Michiel van Setten</b> <i>Benchmarking GW for quantum chemistry applications</i>	<b>Faris Gelmukhanov</b> <i>X-ray Raman scattering of liquids</i>	<b>Inaki Tunon</b> <i>Quantum Hydride Transfer in Formate Dehydrogenase: Environment Reorganization and Primary and Secondary Hydrogen Motions</i>	
14:30	<b>Stefan Goedecker</b> <i>Wavelets for electronic structure calculations, an introduction and overview</i>	<b>Vincenzo Carravetta</b> <i>Aqueous solutions: a look at the surface</i>	<b>Maria Joao Ramos</b> <i>Understanding enzymatic reactions</i>	
15:00	<b>Luigi Genovese</b> <i>Potentialities of Wavelet formalisms for large-scale DFT calculations and beyond</i>	<b>Barbara Brena</b> <i>Calculation of X-Ray Absorption and Photoemission Spectra of Molecules in Complex Environment</i>	<b>Qiang Cui</b> <i>QM/MM analysis of metalloenzymes: developments and applications</i>	
15:30	<b>Luca Frediani</b> <i>MRChem: Quantum Chemistry at the basis set limit with Multiwavelets</i>	<b>Weijie Hua</b> <i>Computational optical and X-ray spectroscopy studies for crystals &amp; 2D materials</i>	<b>Fernanda Duarte Gonzalez</b> <i>Unraveling the Role of Non-Covalent Interactions in Recognition and Catalysis</i>	
	<b>Large-scale electronic structure models of materials</b> Room: Margarinfabrikken 2 Chair: <b>H. Nakai</b>	<b>From picoseconds to attoseconds: Nuclear and electron dynamics</b> Room: Margarinfabrikken 3 Chair: <b>F. Martin</b>	<b>Ultracold chemical physics</b> Room: Arbeidskontoret Chair: <b>P. Julienne</b>	
16:30	<b>Woo Youn Kim</b> <i>Efficient hybrid density functional calculations in real-space numerical grid methods</i>	<b>David Clary</b> <i>Quantum Tunnelling in Chemical Reactions</i>	<b>Rosario Gonzalez-Ferez</b> <i>Rydberg polyatomic molecules: Electronic structure and experimental proposal for their creation</i>	
17:00	<b>Beatriz Gonzalez del Rio</b> <i>Large-scale Ab Initio Simulations with Orbital-free Density Functional Theory</i>	<b>Francoise Remade</b> <i>Spatial and temporal localization of the vibronic and photoelectron wave packets in LiH photoexcited by intense few cycle IR pulses</i>	<b>Timur Tscherbul</b> <i>Magnetic tuning of ultracold chemical reactions: Theoretical insights</i>	
17:30	<b>Damiano Marian</b> <i>Multi-scale approach: a versatile platform for investigating novel two-dimensional-material based device concepts</i>	<b>Olga Smirnova</b> <i>Synthetic chiral light for extremely efficient laser-controlled chiral discrimination</i>	<b>Christiane Koch</b> <i>Quantum effects in cold and controlled molecular dynamics</i>	
18:00	<b>David Tomanek</b> <i>Magic with Semiconducting 2D Nanolayers</i>	<b>Morgane Vacher</b> <i>Insights into chemiluminescence from molecular dynamics simulations and machine learning analysis</i>	<b>Goulven Quemener</b> <i>Shielding ultracold molecules against losses in collision</i>	
20:30	<b>Conference dinner</b> Room: Margarinfabrikken 1+2+3			
<b>Wednesday, July 17</b>		<b>Computational spectroscopy: from X-rays to microwaves</b> Room: Margarinfabrikken 1+2 Chair: <b>A. Csaszar</b>	<b>Computational biophysics</b> Room: Margarinfabrikken 3 Chair: <b>F. Duarte</b>	<b>Janos Ladik memorial symposium</b> Room: Arbeidskontoret Chair: <b>K. Ruud</b>
8:30	<b>Csaba Fabri</b> <i>From High-Resolution Spectroscopy to Light-Dressed Molecules</i>	<b>Rafael Bernardi</b> <i>NAMD as a tool for in silico force spectroscopy</i>	<b>Mark Hoffman</b> <i>Multireference Configuration Interaction Beyond Singles and Doubles</i>	
9:00	<b>Cristina Puzzarini</b> <i>Rotational Spectroscopy Meets Quantum Chemistry for Elucidating Astrochemical Challenges</i>	<b>Michele Vendruscolo</b> <i>Systematic development of small molecules to inhibit amyloid beta aggregation in Alzheimer's disease</i>	<b>Hazel Cox</b> <i>The Limits of Stability in Three-Body Coulomb Systems</i>	
9:30	<b>Sandra Lubert</b> <i>Recent developments in dynamic spectroscopic methods for the gas and condensed phase</i>	<b>Ramon Crehuet</b> <i>Stabilization of <math>\alpha</math>-helices by side-chain to main hydrogen bonds. Can current force fields describe the hydrophobic shielding?</i>	<b>Samantha Jenkins</b> <i>Beyond Scalar Measures: Directional Chemical Perspective with Next Generation QTAIM</i>	
	<b>Plenary lectures</b> Room: Margarinfabrikken 1+2+3 Chair: <b>E. Brändas</b>			
10:30	<b>Monica Olvera de la Cruz</b> <i>Properties of Molecular Electrolytes</i>			
11:15	<b>Kersti Hermansson</b> <i>OH, seriously, ... Molecules + materials = difficult!</i>			