Sunday Provisional					Provisional S		ınday	al, and may change until 30 November.				
13:30-14:00 14:00-14:50 14:50-15:30						inger Medallist (2005) Plenary Lecture: Michele Parrinell ıry Lecture: Ursula Röthlisberger "From Enzymatic React	ions to Photoexcited Proteins: Q		ems"			
5:30-16:00 6:00-16:50 6:50-17:30						Schrödinger Medallist (2002) Plenary Lecture: Walt Dirac Medallist (2003) Plenary Lecture: Peter Sc	hreiner "When can Organic Birac					
18:00-20:00 Provisional						Drinks an	d Light Meal					
Monday 08:00-08:50	Informatics		Enzyme Catalysis		Molecular Structure Plenary Lecture: Jill Gi		Electronic Structure onday tonation States and Proton Shul		Industrial Catalysis		Reaction Mechanisms	
	Protein Evolution and Protein De				The Theory and Modelling of		Interesting Properties of Large	Molecular Systems			Chemical Reaction Mechanisms	
9:00-09:30	SL Richard Goldstein I Neil Ostlund	Deciphering patterns of site substitutions in protein evolution HyperProtein: A New Software Tool at the Interface Between Molecular Modeling and			SL John Brady I Valerie Daggett	Studies of the Structuring of Water by Carbohydrates and Other Solutes Towards Characterization of Protein Folding/Unfolding at Atomic Resolution	SL Shigeru Nagase I Kwang S. Kim	Large Spaces and Flexible Structures Provided by Nanomolecular Systems Nanomaterials, Nanodevices, and Nanosensors: De Novo Design Approach based on Nanorecognition.		Metal and Oxide-Supported Metal Catalysis: Materials and Reactivity Aspects Unraveling molecular mechanisms in heterogeneous catalysis models through strong theory and experiment		Mechanistic Investigations on the Sidewall-Addition to Carbon Nanotubes
0:00-10:30	I David Pollock	Bioinformatics Structure, Function, and Context-Dependent			I Michael Levitt		reak I William A. Lester, Jr.	Recent Developments in Quantum Monte Carlo for Electronic Structure: Methods and Applications to	I Peijun Hu	interaction A Density Functional Theory Study of CO Oxidation on	I Paul Geerlings	Reactivity Descriptors from Density Functional Theory: Application in Organic and Inorganic
		Evolution in Vertebrate Mitochondrial Genomes				Molecular Dynamics of Membrane Systems: Membrane		Bio and Other Systems.		Au-Based Catalysts METAL ATOMS AND CLUSTERS ON OXIDE THIN FILMS:		Chemistry Direct dynamics simulations of atomic-level gas-
11:00-11:30	I Christopher Voigt	Synthetic Design of Bacterial Pathogens A Poisson-Boltzmann Solver running on the			I Tom Woolf	Proteins, Salt, Peptide Folding, and Fusion Structure and mechanism of the ATPase VCP/p97:	I Hans Peter Lüthi	conjugated Systems.	I Gianfranc Pacchioni	MODEL SYSTEMS OF SUPPORTED CATALYSTS	I Bill Hase	phase organic reaction mechanisms. post- transition state dynamics
11:30-12:00	IC Siegfried Höfinger	specialized computer chip MD-GRAPE-2: a case study on the effect of explicit consideration of counter ions. Direct Assessment of Interresidue Forces in			I Axel Brunger	computational challenges for structure determination at low resolution		Scalable Electronic Structure Theory: Methods and Applications Fragment molecular orbital (FMO) method for all		Heterogeneity of surface of oxide-based catalysts. Cluster DFT Studies Density functional model studies of local structure and	I David Sherrill	Energy Landscapes from Pi-Stacking to Bond- Breaking Toward ab Initio Theoretical Predictions of Chemical
2:30-14:00 4:00-14:50	IC Jörg Grunenberg	Biomolecules Using Theoretical Compliance Constants			IC Patricia Hunt	Molecular Liquids	I Kazuo Kitaura unch	electron calculations of very large molecules.	I Georgi N. Vayssilov	chemical behavior of metal species in zeolites	I Greg Tschumper	Reactions
5:00-15:20	C Holger Merlitz	High Throughput in-silico screening against flexible protein receptors.			C Arthur Mc Gready	Novel Computational Methodology for analysing protein ligand/binding sites by use of Vicinity Analysis		Excitation energy transfers in condensed phases	C Justin T. Fermann	хох	C Daniel Peeters	Some substituent effects in Diels-Alder reactions
5:20:15:40	C T. Khayamian	Wavelet Neural Network Modeling in Quantitative Structure Property Relationship			с ххх	ххх	C Rubén Contreras	Scalar Couplings as Probe to Study s- Hyperconjugative Interactions in 1-F,4-X-Cubanes and 1-X-3-CH3-bicyclo[1.1.1]-pentanes: A DFT and	C Kaido Sillar	Computational modelling of the reaction centres in extended systems: The study of the acid sites in zeolite ZSM-5 using the ONIOM method	C Noah ASARE-DONKOR	SEMI - EMPIRICAL PM3(tm) MOLECULAR ORBITAL (MO) STUDY OF ETHYLENE INSERTION INTO THE M CH3 BOND OF HOMOGENEOUS ANSA BIS (INDENYL) GROUP IV METALLOCENE CATALYSTS
								Experimental Study.				Simulation of proton transfer dynamics
5:40-16:00	C Francesco Luigi Gervasio	Flexible Docking in Solution Using Metadynamics			C Jörg Grunenberg	Direct Assessment of Interresidue Forces in Biomolecules Using Theoretical Compliance Constants	C Jurgen Stohner	Parity Violation in Chiral Molecules: Immediate Consequences in Molecular Spectroscopy.	C Edward Jeffery	Keto-enol isomerisation on the surfaces of transition metals: A periodic DFT study	C Anatoly Stepanov	in the hydrogen bond of benzoic acid dimmers at low temperatures
5:00-16:20							reak					Electron Transfer Induced Dissociation of Chloro-
5:20-16:40	C Mehran Jalaie	Molecular Chopper: An Automated Scaffold Linker Replacement Program.			C Dusanka Janezic	Analytical - Numerical Approach to Molecular Dynamics Integration	C Ulrike Salzner	Excited and Charged States of Conjugated p- Systems	C Thomas Strassner	Inverse Isotope Effects of a late Transition Metal Olefin Polymerization Catalyst- a DFT Study	C Marialore Sulpizi	Electron Transfer Induced Dissociation of Chloro- Cyano-Benzene Radical Anion: Driving Chemical Reactions via Charge Restraint
5:40-17:00	C Marcus C. Durrant	Darwin meets Schrödinger: Quantum-Directed Virtual Evolution.			C Hendrick Heinz	Atomic Charges for Classical Simulations of Polar Systems	C Kristine Pierloot	Role of the molybdopterin ligand in the catalytic activity of oxomolybdenum enzymes: a theoretical investigation on (Tp)MoO(S-S) model compounds.	C Rudy Coquet	Methane activation over MoO3(010), an ab initio study	C Shin NAKAMURA	Theoretical Study of Organic Functional Molecules; on the Role of Conical Intersection
7:00-17:20	C Gemma L. Holliday	Analysing Nature's Catalytic Diversity			C Olivier Lamarche	An Anisotropic Force Field based on Quantum Chemical Topology	C Robert Berger	Two-component approach to parity violating energy differences between mirror-image molecules	C Micael Baudin	The role of transient distortions in modeling reactivity of metal oxide surfaces.	C T. Veszprémi	Dimerization and trimerization of Phosphaacetylene. A mechanistic study
rovisional												
esday ::00-08:50						Plenary Lecture: Hugh Kubinyi "Ch						
9:00-09:30	Computational Chemistry - A Vita	What we can and can not do in Computational Chemistry in support of Drug	Quantum Mechanical Predictio	Principles of Enzyme Proficiency and Design: Computational Studies of Enzyme		Base flipping and sequence specificity by the	Electronic Structure of Molecule SL Eluvathingal D. Jemmis	Analogies Between Boron and Carbon: Electronic Structure and Electron Counting			Reaction Mechanisms in the Cor SL Jiali Gao	ndensed Phase III: Biological Systems
9:30-10:00	I Jonathan S. Mason	Discovery. 3D Pharmacophoric and Biological Fingerprints – Combining information from ligands and protein		Catalysis QM/MM Studies of Organic and Enzymatic	I Michael Felg	(cytosine-C5)-methyltransferase from HhaI Implicit Modelling of Heterogeneous Cellular	I G. Narahiri Sastry	Rules. Computational studies on siblings en-route to fullerenes: Study of curved polycyclic aromatic			I Kenneth Merz	The Role of Quantum Mechanics in Structure-Based
:00-10:30	. Solution of Hospital	targets to enhance drug discovery applications.	· Timen so geneen	Reactions	· Indicatives	Proteins	reak	hydrocarbons			· Nomed Tel	Drug Design
0:30-11:00	I Tim Clark	Modeling, QSAR and QSPR based on the electron density.	I Graham Richards	Pattern recognition and grid computing in drug discovery	I Ian Gould	Molecular Dynamics simulations of LysRS -An Asymmetric State	I Jerzy Leszczynski	Interactions of the DNA Fragments with Solvents and Metal Ions			I Piotr Paneth	Modeling of Enzyme-catalyzed Reactions Based on Kinetic Isotope Effects
1:00-11:30	I Rod Hubbard	Theory in practice: experiences in predictive structure-based drug discovery	I Arieh Warshel	How do enzymes really work ;Using Computer Simulations to Examine and Eliminate catalytic Proposals	I Jianpeng Ma	New Methods for Simulating, Refining, and Modeling Supermolecular Complexes at Multi-resolution and Multi- length Scales	I Paul v R Schleyer				I Jean-Claude Rayez	New perspective in transition state theory
1:30-12:00	I Esin Aki Sener	3D-QSAR studies of topoisomerase II inhibitors using catalyst	I Yun-Dong Wu	A Theoretical Study on the Mechanism of the Reductive Half-reaction of Xanthine Oxidase	I Monte Pettitt	The role of solute-solvent attraction on the dewetting of large hydrophobic solutes	I Henry S. Rzepa	Foliacenes: Ab initio modelling of metallocomplexes exhibiting a unique form of 16-electron, metal-induced aromaticity			I Charles H. Reynolds	Mechanistic Approaches to Drug Discovery
:00-12:30	I Martin Stahl	Fragment Spaces in 2D and 3D de novo design	I Max C. Holthausen	Mechanistic Insights into the Hydroxylation Activity of Bioinorganic Models for Dinuclear Cu- Proteins	I Robert B. Best	Identifying dynamically relevant reaction coordinates in biomolecular transitions	I Alexander I. Boldyrev	Multiple Aromaticity - A New Tool in Deciphering Chemical Bonding in Main Group Clusters			I Qiang Cui	Theoretical analysis of mechanochemical coupling in myosin
:30-14:00 :00-14:50					PI	Lienary Lecture: Martin Quack "Electroweak Quantum Ch	unch emistry and Dynamics of Parity	Violation in Chiral Molecules"				
:00-15:20	C Horst Bögel	Web-based Computational Network using Java- Tools and Java-WebStart technology.	C Nino Russo	Potential Energy Surfaces for Reactions Catalysed by Metal Containing Enzymes from Density Functional Computations	C Wolfgang Wenzel	Reproducible in-silico Protein Folding at the all atom level	C Shyi-Long Lee	Computational study for the hydrogen bonding 1:1complexes of tetrahydrofuran with water, hydrogen fluoride or ammonia			C Geza Fogarasi	Water-mediated Tautomerism in Cytosine: an ab Initio Dynamics Study
:20:15:40	C Jamie Platts	Polar Surface Area: Problems and Opportunities.	C Stefano Piana	Molecular mechanism of caspase activity regulation.	C Maria Colombo	A study of the structural stability of the apo- and holo- form of the C-terminal domain of the mouse prion protein	C David Danovich	Triple Bonds of Carbon and Silicon – A Comparative Study Using Modern Valence Bond Theory.			C K.J. Jalkanen	Modeling study the mechanism of DNA repair by the photolyase protein
:40-16:00	C Christoph Steinbeck	Open Content Databases and Open Source Libraries for Chemoinformatics.	C Thomas H. Rod	High-level QM/MM free energies for enzymatic reactions.	C Tamás Beke	Secondary structure elements of b-peptides using quantum chemical calculations	C Klaus Hermann	Ab initio DFT Cluster Studies for Oxygen 1s NEXAFS Spectra at V2O5 and V2O3 Surfaces.	5		C Xiang-Yuan Li	New Theory for Nonequilibrium solvation and Numerical Solution of Poisson Equation
:00-16:20	C John B.O. Mitchell	QSAR Study of Structure-Odour Relationships Using EVA Descriptors.	C Ivano Tavernelli	Excited state ab initio MD study of photochemical processes in model compounds	C Roberto D. Lins	Interactions in Peptide Folding	C Chin-Hui Yu	Tuning the Hydrogen Bonds through Cooperative Effects.			C Benjamin Gladwin	Final Times, First Passage Times and Long Time Scale Least Action
6:00-16:20												
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ednesday :00-08:50 :50-09:40						Po Wed nary Lecture: Paul Madden "From First-principles to Mate Medallist (2004) Plenary Lecture: Jan Martin "Computat	isters Inesday Irial Behaviour: Towards Predict Iional Thermochemistry: The Rig					
ednesday :00-08:50 :50-09:40	Selected Contributed Lectures IV	v	Selected Contributed Lectures	· V	Dirac	Po Wed nary Lecture: Paul Madden "From First-principles to Mate Medallist (2004) Plenary Lecture: Jan Martin "Computat	isters Inesday Inesday Predict	pht Fesult for the Right Reason?"	Selected Contributed Lectu	ires II	Selected Contributed Lectures I	
ednesday ::00-08:50 ::50-09:40 ::40-10:10	Selected Contributed Lectures IV	A density functional theory study of guanine quartets.	Selected Contributed Lectures C Annu Söderholm		Dirac	Po Wed hary Lecture: Paul Madden "From First-principles to Mate Medallist (2004) Plenary Lecture: Jan Martin "Computat B	inesday rial Behaviour: Towards Predict tional Thermochemistry: The Rig reak Selected Contributed Lectures 1	pht Fesult for the Right Reason?"	Selected Contributed Lectu C Michelle Kuttel	ires II Stretching Dynamics of Pyranose Polysaccharides	Selected Contributed Lectures I	
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esday -08:50 -09:40 -10:10 -10:30 -10:50 -11:10 -11:30 -11:50 -12:10 -14:00 -10:30	C Tanja van Mourik C N. Absi C Alexei V. Arbuznikova C Dmitri G. Fedorov C Hideo Sekino	A density functional theory study of guanine quartets. Divide and conquer strategy for molecular electronic integrals over Exponential Type Orbitals "Double local hybrid" exchange-correlation potentials: construction and evaluation in DFT calculations of magnetic-resonance parameters. A general fragment-based method for quantum-chemical calculations of large molecules Polarizability Evaluation by Density Functional Theory (DFT) with Long Range Corrected (LRC) Number A computational investigation of the structure of phenyloxenium ions.	C Albérico B.F. da Silva C Ming Wah Wong C Yukihiko Nagae C Nesilhan Canbek C O. Anatole von Lilienfeld Radicals in Biology SL Leo Radom I Russell Boyd I Sason Shaik I Arvi Rauk IO Per Siegbahn I Vincenzo Barone IO Hendrik Zipse I Leif Eriksson IO David Smith	3D Structure-Activity Relationships of Non-Steroidal Androgen Receptor Ligands. A study on the influence of molecular properties in the psychoactivity of cannabinoid compounds. Diels-Alder Reactions Using Chiral Oxazaboroildinone Catalysts: The Roles of p-stacking, Hydrogen Bonding and Donor-Acceptor Interactions. Hydrated Structure of Ammonia-Water Molecule Pair via the Free Energy Gadient Method. Computational Modeling of Interactions of Glutamic Acid with Metal Ions. Optimization of Effective Atom Centered Potential Optimization of Effective Atom Centered Potential Potential Mediated Reactions Chemical Models for Biological Catalysis One Reagent Many Pathways: Reactivity Patterns of Cytochrome P450 Enzymes and Analogous Catalysts. 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