



ERA-Chemistry - 5th Flash Conference
Big Tasks of Water – Building and Destroying Molecules in Water
Frauenchiemsee, 18 – 22 October 2009

	Time		Speaker	Title
	18:00	19:30	Dinner	
Oct 18	19:30	20:00	Welcome and Opening	
Sunday	20:00	21:30	Plenary "Karlheinz Schmidt lecture" H. Eugene Stanley, Boston, USA	Liquid Water, the "Most Complex" Liquid: New Results in Bulk, Nanoconfined, and Biological Environments
What is so special in water? The present state of art				
Oct 19	8:40	9:25	Richard Buchner University of Regensburg, Germany	Water Dynamics and Hydration Processes - The View of Dielectric Spectroscopy
Monday	9:25	10:10	Ad van der Avoird, Nijmegen, Netherlands	The properties of water from first principles
	10:10	10:40	Alan Bizjak, Ljubljana, Slovenia	Theory for simple three-dimensional model of water
	10:40	11:00	Coffee Break	



Self-organisation in water – chemical aspects				
Oct 19	11:00	11:45	Juan-Manuel Garcia-Ruiz, Granada, Spain	Self-organization in aqueous precipitation systems: Silica biomorphs and silica gardens
Monday	11:45	12:30	Daniel Harries, Jerusalem, Israel	Osmolyte impact on water structure: a mechanism for controlling Peptide Folding
	12:30	13:00	Antonio Romerosa Nievas, Almería, Spain	Non-lineal organometallic microgels in water
	13:00	16:00	Lunch and Posters (14:00)	
The role of water for material design, biomaterials etc.				
Oct 19	16:00	16:45	John Finney, London, U.K.	Water-related driving forces in self-organization: hydrophobia and hydrophilia as allies?
Monday	16:45	17:30	Ivan Brovchenko, Dortmund, Germany	State diagram and thermodynamic properties of hydration water
	17:30	18:00	Frédéric Hapiot, Artois, France	Cyclodextrins: New Opportunities for Aqueous Catalysis
Dinner (18:00)				
Purification of water				
Oct 20	8:40	9:25	C. Oliver Kappe, Graz, Austria	High-Temperature Reactions in Microwave-Heated Water
Tuesday	9:25	9:55	Stéphanie Pigeot-Remy, Lyon, France	Photocatalysis and Desinfection



	9:55	10:25	Michèle Besson, Lyon, France	Catalytic oxidative and reductive technologies for elimination of organic and biological contaminants in water
	10:25	10:45	Coffee Break	
Controlling chemical reactions in water and confined water				
Oct 20	10:45	11:30	Ferenc Joó, Debrecen, Hungary	Water in organometallic catalysis - just another solvent?
Tuesday	11:30	12:15	Thilo Hofmann, Vienna, Austria	Natural and engineered nanoparticles in aquatic systems
	12:15	13:00	Véronique Rataj, Lille, France	Water: a wonderful solvent for the formulation of microstructured catalytic oxidizing reaction media
Sightseeing Herrenchiemsee (14:00 to 18:00)				
Dinner (18:00) and Posters (19:00)				
Replacing organic solvents by water – a major step towards green chemistry				
Oct 21	8:40	9:25	Chao-Jun Li, Montreal, Canada	Forming C-C Bond via C-H Functionalization in Water
Wednesday	9:25	10:10	Pedro M. P. Gois, Portugal	Direct C-H bond activation and multicomponent reactions: Two useful approaches to form C-C bonds <i>in/on</i> water



	10:10	10:40	Csilla Enikő Nagy, Debrecen, Hungary	Synthesis and catalytic properties of water-soluble gold-n-heterocyclic carbene complexes
	10:40	11:00	Coffee Break	
Novel hydrothermal processes				
Oct 21	11:00	11:45	Frédéric Goettmann, ICSM, France	About organic chemistry in superheated water
Wednesday	11:45	12:30	Gerd Brunner, TU Hamburg, Germany	Hydrolytic and hydrothermal processes in near-critical and supercritical water
	12:30	13:00	Anne Loppinet-Serani, Bordeaux, France	Biomass valorisation with supercritical water
Lunch (13:00)				
Informational workshop about the Open Call of ERA-Chemistry (14:30)				
New aspects of industrial water-based processes				
Oct 21	16.00	16:45	Mika Mänttari, Lappeenranta, Finland	Purification of waste waters and recovery of valuable compounds from water based solutions by membrane filtration
Wednesday	16:45	17:30	Raphael Semiat, Haifa, Israel	Clean water at affordable cost for all
	17:30	18:00	Nicolas Grosjean, Lyon, France	Elimination of DMF in water by catalytic wet air oxidation
	19:00	23:00	Conference Dinner	