XXI. International Conference "Horizons in Hydrogen Bond Research"
13 – 18 September 2015, Wrocław, Poland
(www.hbond2015.chem.uni.wroc.pl)

Updated Conference Programme

Sunday, September 13

15:00 – 21:00	Registration – Building of the Faculty of Law,
18:30	Administration and Economy (Uniwersytecka Street 7-10) Get-together party

Monday, September 14

8:00 8:45 – 9:00		Registration
6:45 – 9:00 Chairman:	Hannyl, I	Opening Ratajczak
9:00 – 9:50	OL	Jean-Marie Lehn (Nobel Prize in Chemistry in 1987)
9:00 - 9:30	OL	From supramolecular chemistry towards adaptive
		chemistry. Aspects of hydrogen bonding.
9:50 - 10:30	IL-1	Pavel Hobza (Prague, Czech Republic)
7.30 - 10.30	1L/-1	Hydrogen and sigma-hole bonding: theoretical approach.
10:30 - 11:10	IL-2	, , , , , , , , , , , , , , , , , , , ,
10:30 - 11:10	IL-2	Frank Böckler (Tübingen, Germany)
		Improving the applicability of halogen bonding in drug
11.10 11.40		discovery.
11:10 – 11:40	11 2	Coffee break
11:40 – 12:20	IL-3	Célia Fonseca Guerra (Amsterdam, The Netherlands)
		Covalence, not Resonance-Assistance, behind cooperative
12.20 12.00	TT 4	hydrogen and halogen bonds.
12:20 – 13:00	IL-4	Andrzej Sokalski (Wrocław, Poland)
		Towards non-empirical atom-atom potentials for non-
42.00 47.00		bonded interactions.
13:00 – 15:00		Lunch
Chairman:	Martin S	
15:00 – 15:40	IL-5	Angelos Michaelides (London, Great Britain)
		Quantum nature of the hydrogen bond: Insight from ab
		initio path integral molecular dynamics.
15:40 - 16:00	OC-1	Judy I-Chia Wu (Houston, Texas, USA)
		On the nature of low barrier H-bonds in enzyme catalysis/
16:00 - 16:20	OC-2	Ewa Brylska (Wrocław, Poland)
		Molecular interaction of human serum albumin with
		meloxicam – molecular modeling studies.
Chairman:	Austin J	
16:20 - 16:50		Coffee break
16:50 - 17:10		FQS Poland
		Presentation of research and development of new software
		in the field of chemistry, materials and life sciences.
17:10 - 17:30	OC-3	Oleg A. Filippov (Moscow, Russia)
		Role of hydrogen bonds in hydrogen transfer reaction of
		metal hydrides.
17:30 - 17:50	OC-4	Igor E. Golub (Moscow, Russia)
		A study of multifurcate dihydrogen bonded complexes with
		participation of boron hydrides.
17:50 - 18:10	OC-5	Tomasz Masłowski (Zielona Góra, Poland)
		What proton conductivity can tell us about H-bond
		potentials?

Tuesday, September 15

Chairman:	Elanganı	nan Arunan
9:00 - 9:40	IL-6	Sammy El-Shall (Richmond, Virginia, USA)
		Unconventional hydrogen bonding between organic ions
		and polar molecules.
9:40-10:20	IL-7	Ibon Alkorta (Madrid, Spain)
		Hydrogen bonded anion-anion aggregates.
10:20 - 11:00	IL-8	Lars Pettersson (Stockholm, Sweden)
		Water – a tale of two liquids.
11:00 - 11:30		Coffee break
Chairman:	Poul Eril	k Hansen
11:30 - 12:10	IL-9	Markus Gerhards (Kaiserslautern, Germany)
		Combined IR/UV spectroscopy on hydrogen-bonded
		systems: from peptides to photophysical reactions.
12:10 - 12:30	OC-25	Vlasta Mohaček Grošev (Zagreb, Croatia)
12010 12000	00 20	Evidence of polaron excitations in Raman spectra of oxalic
		acid dihydrate at low temperatures.
12:30 - 12:50	OC-6	Barbara Golec (Warsaw, Poland)
12.00	000	Hydrogen bond-induced changes in photophysics and
		photostability of indolenaphthyridines.
12:50		Conference photo – Leopoldian Assembly Hall, the
12.50		main building of the University
13:10 - 15:00		Lunch
Chairman:	Hans_He	inrich Limbach
15:00 – 15:20	OC-7	Erik T. J. Nibbering (Berlin, Germany)
13.00 13.20	OC-1	Correlating photoacidity to hydrogen-bond structure by use
		of the local O-H stretching probe in hydrogen-bonded
		complexes of aromatic alcohols.
15:20 - 15:40	OC-8	Mark Sigalov (Negev, Israel)
13.20 - 13.40	OC-0	Structure, intermolecular and photoinduced intramolecular
		, 1
		hydrogen bonding in 2-pyrrolylmethylidene cycloalkanones.
15:40 – 16:00	OC-9	
13:40 - 10:00	UC-9	Pierre Asselin (Paris, France)
		Jet-cooled high resolution infrared spectroscopy of
16.00 16.30	00.10	hydrated hetero clusters.
16:00 – 16:20	OC-10	Jose A. Fernandez (Leioa, Spain)
		Exploring the conformational preferences of aniline
16.00 16.40	00.11	aggregates in jets.
16:20 – 16:40	OC-11	Michał Gil (Warsaw, Poland)
		Structural distortion and fluorescence enhancement in
		diazatriphenylenes and their hydrogen-bonded complexes
16.40 45.40		in supersonic jets.
16:40 – 17:10		Coffee break
17:10 – 18:40		Poster session I (Posters: 1 – 36)

Wednesday, September 16

Chairman:	Wouter H	[errebout
9:00 - 9:40	IL-11	Walther Caminati (Bologna, Italy)
		Tunneling dynamics, proton transfer, conformational
		equilibria and Ubbelohde effect in adducts of carboxylic
		acids.
9:40-10:20	IL-12	Ehud Pines (Beer-Sheva, Israel)
		Understanding factors affecting red-shifts for the proton
		stretch vibration frequency of O-HB hydrogen bonding
10.20 10.40	00.13	complexes.
10:20-10:40	OC-12	Matthias Heger (Göttingen, Germany)
		Anharmonicity and the hydrogen bond.
10:40 - 11:00	OC-13	Ruslan E. Asfin (St. Petersburg, Russia)
		Structure of the absorption bands of complexes in the gas
		phase with different hydrogen bond strengths. Fourier
		spectra and ab initio anharmonic calculations.
11 00 11 20		
11:00 – 11:30	т м	Coffee break
Chairman: 11:30 – 11:50	Janez Ma OC-14	
11:30 – 11:30	UC-14	Stéphane Coussan (Marseille, France) From water aggregates trapped in cryogenic matrices to
		amorphous solid water.
11:50 - 12:10	OC-15	Igor Reva (Coimbra, Portugal)
11.30 12.10	00 13	Near-infrared-induced conformational cis-trans switching
		in carboxylic acids isolated in cryogenic inert matrices.
		, , , , , , , , , , , , , , , , , , ,
12:10 - 12:30	OC-16	Ragupathy Gopi (Kalpakkam, India)
		Study of blue shifting hydrogen bond in fluoroform with
		Lewis bases (HCl, H ₂ O, and C ₆ H ₆): A matrix isolation
10 20 10 50	00.15	infrared and <i>ab initio</i> studies.
12:30 - 12:50	OC-17	Aude Bouchet (Berlin, Germany)
		Binding motifs of a microhydrated neurotransmitter: IR
		spectroscopy of rare gas-tagged protonated phenylethylamine and its water clusters.
12:50 - 15:00		Lunch
Chairman:	Jan Lund	
15:00 - 15:20	OC-18	Michel Mons (Gif-sur-Yvette, France)
		NH – OC amide-amide H-bonds in peptides revisited in
		light of gas phase spectroscopy of beta-peptides.
15:20 - 15:40	OC-19	Sylwia Olsztyńska-Janus (Wrocław, Poland)
		Weakening of hydrogen bonds of biological structures by
		near infrared radiation.
15:40 – 16:00	OC-20	Kasper Mackeprang (Copenhagen, Denmark)
		The effect of large amplitude motions on the vibrational
		spectra of hydrogen bonded complexes.
16:00 – 16:30		Coffee break
10.00 - 10.30		CULICULAR

Special session to honour prof. Lucjan Sobczyk

Chairman:	Kazimierz Orzechowski		
16:30 - 17:10	IL-13	Aleksander Koll (Wrocław, Poland)	
		Polarity of hydrogen bond.	
17:10 - 17:50	IL-14	Hans-Heinrich Limbach (Berlin, Germany)	
		Acid-base hydrogen bonds in different environments: From	
		organic solvents to enzymes.	
17:50 - 18:30	IL-15	Poul Erik Hansen (Roskilde, Denmark)	
		Isotope effects in hydrogen bond research.	

Thursday, September 17

Chairman:	Konstati	n G. Tokhadze
9:00 - 9:40	IL-16	Christoph A. Schalley (Berlin, Germany)
		Multistimuli-responsive supramolecular gels.
9:40-10:20	IL-17	Ilya Shenderovich (Regensburg, Germany)
		Hydrogen bond reveals the morphology of non-crystalline solids.
10:20-10:40	OC-21	Vytautas Balevicius (Vilnius, Lithuania)
		Solid state NMR study of materials for innovative
		medicine: sub-nano structure and dynamics of spin clusters containing hydroxyl groups.
10:40 - 11:00	OC-22	Elena Bogdan (Nantes, France)
10.70 – 11.00	00-22	Experimental and theoretical evidences of intramolecular
		OH···F hydrogen bonding in saturated acyclic
		fluoroalcohols.
		indivateditois.
11:00 - 11:30		Coffee break
11:00 – 11:30 Chairman:	Zofia Mi	
	Zofia Mi IL-18	
Chairman:		elke
Chairman:		elke Sanjay Wategaonkar (Mumbai, India)
Chairman: 11:30 – 12:10	IL-18	elke Sanjay Wategaonkar (Mumbai, India) NHS interaction perspective.
Chairman: 11:30 – 12:10	IL-18	elke Sanjay Wategaonkar (Mumbai, India) NHS interaction perspective. Anne Schou Hansen (Copenhagen, Denmark)
Chairman: 11:30 – 12:10	IL-18	elke Sanjay Wategaonkar (Mumbai, India) NHS interaction perspective. Anne Schou Hansen (Copenhagen, Denmark) Comparing second and third row elements, N, O, P and S,
Chairman: 11:30 – 12:10 12:10 – 12:30	IL-18	elke Sanjay Wategaonkar (Mumbai, India) NHS interaction perspective. Anne Schou Hansen (Copenhagen, Denmark) Comparing second and third row elements, N, O, P and S, as hydrogen bond acceptor atoms.
Chairman: 11:30 – 12:10 12:10 – 12:30	IL-18	elke Sanjay Wategaonkar (Mumbai, India) NHS interaction perspective. Anne Schou Hansen (Copenhagen, Denmark) Comparing second and third row elements, N, O, P and S, as hydrogen bond acceptor atoms. Patrycja Radek (Wrocław, Poland)
Chairman: 11:30 – 12:10 12:10 – 12:30 12:30 – 12:50	IL-18	elke Sanjay Wategaonkar (Mumbai, India) NHS interaction perspective. Anne Schou Hansen (Copenhagen, Denmark) Comparing second and third row elements, N, O, P and S, as hydrogen bond acceptor atoms. Patrycja Radek (Wrocław, Poland) Wrocław Research Centre EIT+
Chairman: 11:30 - 12:10 12:10 - 12:30 12:30 - 12:50 12:50 - 14:30	IL-18	elke Sanjay Wategaonkar (Mumbai, India) NHS interaction perspective. Anne Schou Hansen (Copenhagen, Denmark) Comparing second and third row elements, N, O, P and S, as hydrogen bond acceptor atoms. Patrycja Radek (Wrocław, Poland) Wrocław Research Centre EIT+ Lunch
Chairman: 11:30 - 12:10 12:10 - 12:30 12:30 - 12:50 12:50 - 14:30 14:30 - 16:00	IL-18	elke Sanjay Wategaonkar (Mumbai, India) NHS interaction perspective. Anne Schou Hansen (Copenhagen, Denmark) Comparing second and third row elements, N, O, P and S, as hydrogen bond acceptor atoms. Patrycja Radek (Wrocław, Poland) Wrocław Research Centre EIT+ Lunch Poster session II (Posters: 37 – 73)

Friday, September 18

Chairman:	Jacek Waluk	
9:00 - 9:40	IL-19	Andrzej Katrusiak (Poznań, Poland)
		Pressure-induced anomalous transformations of hydrogen-
		bonds and their consequences for material sciences.
9:40 - 10:20	IL-20	Barbara Wyslouzil (Columbus, Ohio, USA)
		The role of hydrogen bonding in phase transition.
10:20 - 10:50	IL-21	Grażyna Bator (Wrocław, Poland)
		The unconventional C-HX hydrogen bonds. An
		application of the neutron scattering.
11:00 - 11:30		Coffee break
11:30 – 12:10	IL-22	Jože Grdadolnik (Ljubljana, Slovenia)
		Hydrogen bonding in, and structure of blocked dipeptides.
12:10 - 12:30	OC-24	Agnieszka Rybarczyk-Pirek (Łódź, Poland)
		N-oxide group as a proton acceptor in p-nitropyridine-N-
		oxide cocrystals.
12:30 – 12:50		Closing the HBond2015
		Invitation to HBond2017
12:50 – 14:30		Lunch