HYDROGEN FOR THE FUTURE

Marie Curie Research Training Network 'Hydrogen'

The 3rd RTN Meeting

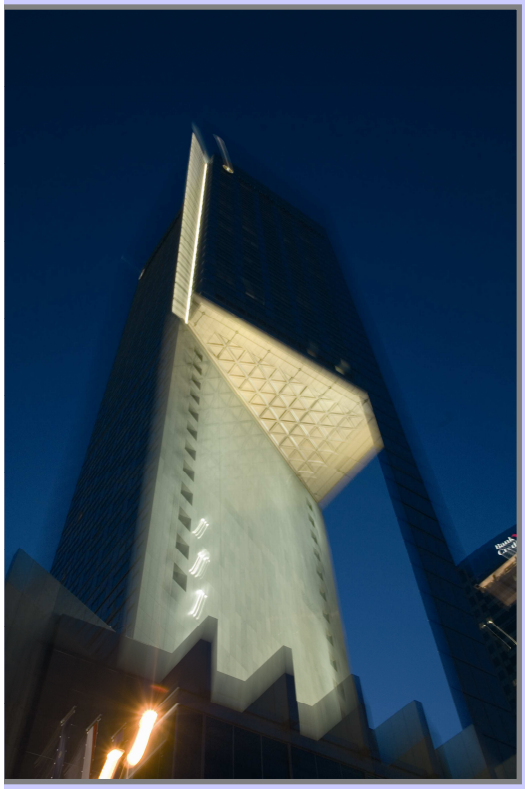
21–25 Oct 2009

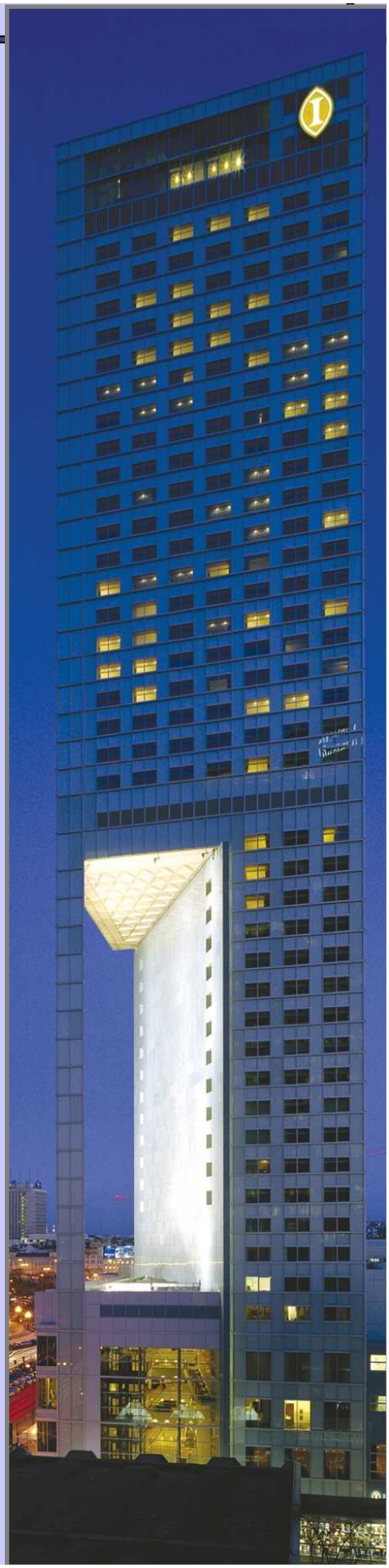
Hotel Intercontinental

Warsaw POLAND

EU 6FP: MRTN-CT-2006-032474

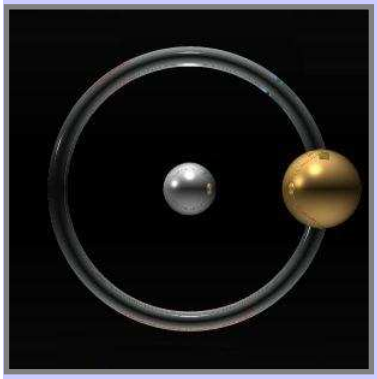
INTERCONTINENTAL*****
Emilii Plater Str. No. 49
00-125 Warsaw POLAND





HYDROGEN FOR THE FUTURE, The 3rd RTN Meeting, 21–25 Oct 2009, Warsaw Poland

HYDROGEN: ENERGY OF THE FUTURE



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MARIE CURIE RTN: 2006–2011

hydrogen a Marie Curie Research Training Network

http://www.mcrtn-hydrogen.eu/

I: Amsterdam NL 2007
II: Reykjavik ICE 2008
III: Warsaw PL 2009
IV: Leiden NL 2010

^{84}Po Polonium

Maria SKŁODOWSKA–CURIE (1867–1934)

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The Univeristy of Warsaw

http://www.uw.edu.pl/

LTNFM: ICM & Faculty of Chemistry

http://ltnfm.icm.edu.pl/

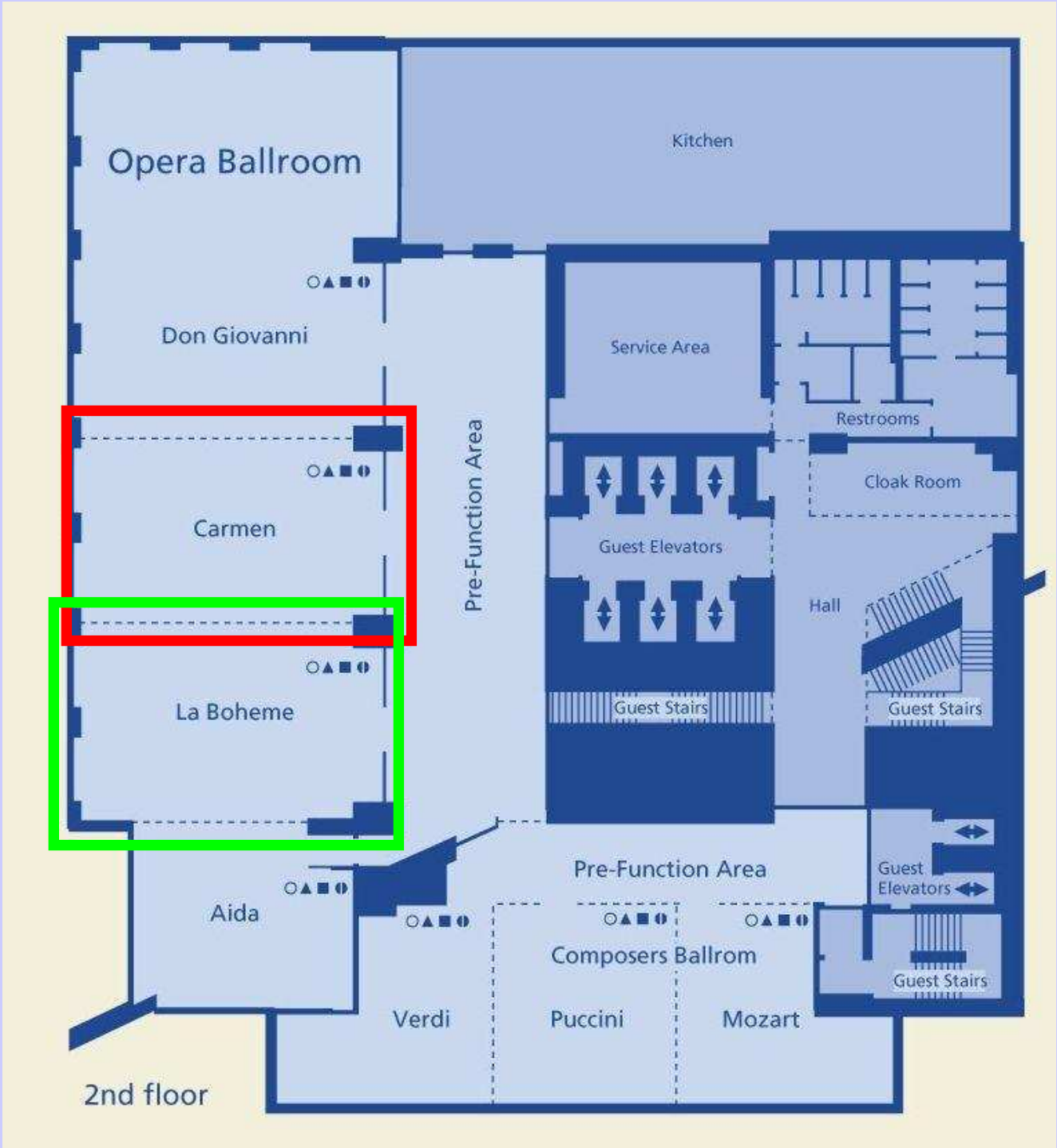
21.10 ‘Day 0’

17:30–18:30 visit to unique Warsaw pH-otoplasticon, Aleje Jerozolimskie Str., No. 51 (2 groups max. 24 pers.)

18:40 bus leaving from hotel for Museum of Maria Skłodowska–Curie, Freta Str., No.16
19:00–20:00 visit at Museum incl. film show

20:00→ wandering thru Old Town of Warsaw
There will be NO bus service back to hotel

Lecture Halls



CARMEN: Oct 22 LA BOHEME: Oct 23, 24, 25

22.10 'Day 1', room CARMEN (2nd floor)

9:15-9:25 Welcome – Marek Niezgódka
9:25-9:55 Wojciech Grochala *„Welcome to Poland, welcome to Warsaw!"*
9:55-10:00 Organizers' "Reminders for the day"
10:00-11:00 SESSION 1 Chair: Adriana Paracchino
Florian Le Formal (EPFL) *Solar Driven Water Splitting : Principle and An Example with Hematite.*
Jeremie Brillet (EPFL) *Innovative nanostructured photoanodes for Solar energy conversion.*
11:00-11:20 morning coffee break
11:20-12:20 SESSION 2: Chair: Nicola Naujoks
Adriana Paracchino (EPFL, guest speaker) *Exploration of a new class of p-type oxides for hydrogen evolution in photoelectrochemical water splitting.*
Rafael Martins (CHA) *Nanostructuring Photoanodes for Hydrogen Production via Water Splitting.*
12:30-13:30 lunch: restaurant *Downtown*, 1st floor
13:30-14:30 SESSION 3: Chair: Geert-Jan Kroes
Peter J. Kluepfel (UI) *Self-interaction corrected energy functionals -- An interpolating between two regimes of electronic structure.*
Alvaro Valdes de Luxan (LEI) *Cluster study of the Photo-Oxidation of Water on TiO_2 Surface.*
14:30-14:50 afternoon coffee break
14:50-15:50 SESSION 4: Chair: Ilaria Pino
Isabela Man (DTU) *Competitive chlorine and oxygen evolution at rutile(110) surfaces (DFT).*
Ivan Ljubic (OX) *Towards Understanding Mechanism of Reversible Hydrogen Storage in Transition Metal Doped Sodium Alanate.*
15:50-16:00 prize for the best ESR & ER speech of the day
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17:30 leaving from hotel to the Palace of Culture and Science (sunset view of Warsaw from its very roof, groups of 8 persons)
19:00–22:00 Informal meeting Hard Rock Cafe, Złota Str., No. 59 ('open bar')

23.10 'Day 2', room LA BOHEME (2nd floor)

8:30-9:50 PI Meeting
9:55-10:00 Organizers' "Reminders for the day"
10:00-11:00 SESSION 1. Chair: Ewa Banach
Flavio Pendolino (EMPA) *The "Boron effect" in the decomposition of light metal borohydride.*
Tomasz Jaroń (WAR, guest speaker) *Storage of hydrogen in lightweight $Y(BH_4)_3$.*
11:00-11:20 morning coffee break
11:20-12:20 SESSION 2. Chair: Andrew J. Churchard
Radostina V. Genova (WAR) *Probing hydrogen storage properties of materials based on yttrium and ytterbium.*
Ewa Banach (SHL) *Synthesis and characterization of Al/ZIF-8 composites.*
12:30-13:30 lunch: restaurant *Downtown*, 1st floor
13:30-14:30 SESSION 3. Chair: Alvaro Valdes de Luxan
Jian-cheng Chen (LEI) *H_2 dissociation and formation of AlH_3 on c(2×2)-Ti/Al(100) surfaces.*
Andrew J. Churchard (WAR) *Molecular catalysts for thermal decomposition of complex hydrides.*
14:30-14:50 afternoon coffee break
14:50-15:50 SESSION 4. Chair: Isabela Man
Nicola Naujoks (CHA) *Investigating hydrogen storage in thin films and nanoparticles.*
Loránd Románszki (CHA) *3-D porous templates to study hydrogen storage in nanoparticles by QCM.*
15:50-16:00 prize for the best ESR & ER speech of the day
****
17:30 bus leaving from hotel to Oycowizna restaurant, Słoneczna Str., No. 241, 05-506 Lesznowola/ Magdalenka (*ca.* 15 km from hotel)
19:00–23:00 conference banquet
23:00 bus leaving back to hotel

NOTE LECTURE HALL CHANGE

24.10 'Day 3', room LA BOHEME (2nd floor)

9:55-10:00 Organizers' "Reminders for the day"
10:00-11:00 SESSION 1. Chair: Michael Zach
Lucjan Piela (WAR) *H_2 molecule in detail*.
Dinko Chakarov (CHA) *It happens on the surface.*
11:00-11:20 morning coffee break
11:20-12:20 SESSION 2. Chair: Marten Bjorketun
Igor Zoric (CHA) *Thermodynamics and kinetics of hydriding and dehydriding of metallic nanoparticles: Does the size matter?*
Ronald Griessen (VU, Netherlands) *Tuning thermodynamics of M-H (nano)systems with elastic constraints.*
12:30-13:30 lunch: restaurant *Downtown*, 1st floor
13:30-14:30 SESSION 3. Chair: Peter P. Edwards
Armand Budzianowski (WAR) *Tiny crystals and giant pressure: David and Goliath in the lab.*
Dominik Kurzydłowski (WAR) *New Polymorphs of Silane, SiH_4, Accessed by High Pressure: A Computational Study.*
14:30-14:50 afternoon coffee break
14:50-15:50 SESSION 4. Chair: John A. Turner
Hans Geerlings (SHL) *A short introduction to CO_2 capture and sequestration.*
Peter P. Edwards (OX, UK) *Can we make a materials difference to a sustainable energy future?*
15:50-16:00 prize for the best training speech of the day

Poster mini–session during whole day:
Przemysław Malinowski (WAR); Karol Fijałkowski (WAR).
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16:15 bus leaving from hotel for Museum of Warsaw Uprising
16:30–19:00 visit at Museum (2 groups, ENG guides)
19:15 bus leaving back to hotel

25.10 'Day 4', room LA BOHEME (2nd floor)

9:55-10:00 Organizers' "Reminders for the day"
10:00-11:00 SESSION 1. Chair: Arndt Remhof
Łukasz Dobrzycki (WAR) ***Headache of hydrogen position determination by diffraction techniques.***
Mariana Derzsi (WAR) ***Lighter balls kicking heavier ones: what can we learn from neutron's impact on H–rich materials?***
11:00-11:20 morning coffee break
11:20-12:20 SESSION 2. Chair: Hannes Jonnson
Sebastien Rives (LEI) ***MD simulation of hydrogen storage in sII clathrates hydrates: Effect of promoter molecules and diffusion of*** H_2.
John A. Turner (NREL, USA) ***Hydrogen Production from Photoelectrochemical Cells: Theoretical considerations and experimental results.***
12:30-13:30 lunch: restaurant ***Downtown*****, 1st floor**
13:30-14:30 SESSION 3. Chair: Mariana Derzsi
Hannes Jonnson (UI) ***The rate of thermally activated transitions, such as diffusion and chemical reactions.***
Marten Bjorketun (DTU) ***Hydrogen evolution: a first-principles perspective.***
14:30-14:50 afternoon coffee break
14:50-15:50 SESSION 4. Chair: Armand Budzianowski
Arndt Remhof (SFLMTR) ***Hydrogen dynamics in light borohydrides.***
Stanisław M. Filipek (IChF PAN, WAR) ***Unusual behavior of the most simple element; hydrogen-metal systems under high pressures.***
15:50-16:00 prize for the best training speech of the day
16:00-16:15 closing remarks & farewell
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17:00- leaving (cars, taxi) for gokart contest in Bemowo Mall (18:00-20:00, private fun, optional) http://www.pole-position.pl/