

AQUACHEM FINAL MEETING AND CIAM WORKSHOP



Salle "Gallais"
Laboratoire de Chimie de Coordination, UPR CNRS 8241
205 Route de Narbonne, Toulouse

November 29 – December 1, 2007



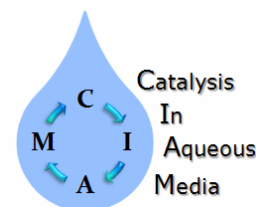
Thursday, November 29

**AQUACHEM (RTN N° MRTN-CT-2003-503864)
FINAL MEETING, PART I**



15.30 - 16.00	Maurizio PERUZZINI, ICCOM, Florence, Italy: “Opening and summary of the MC-RTN AQUACHEM activities”
16.00 - 16.20	Riccardo WANKE, IST, Lisbon, Portugal: “Complexes of Cu(I) incorporating New functionalised tris(pyrazolyl)methane Ligands and Water Soluble Phosphines”
16.20 - 16.40	Rugiada GIROTTI, UAL, Almeria, Spain: “Water Soluble Ruthenium Complexes Containing PTA Derivatives Ligands: Photochemical Activity”
16.40 - 17.00	Guoying ZHAO, UD, Debrecen, Hungary: “Hydrogenation of Carbon Dioxide to Formic Acid Catalyzed by Water-Soluble Rh and Ru Phosphine Complexes”
17.00 - 17.30	COFFEE BREAK
17.30 - 17.50	Mikael ERLANDSSON, ICCOM, Florence, Italy: “PTA: Putting Transition metals into Action in water”
17.50 - 18.10	Malgorzata BRINDELL, UEN, Erlangen, Germany: “Solution behavior of (ImH)[trans-Ru ^{III} Cl ₄ (dmsO)(Im)] and its reduced form under physiological conditions”
18.10 - 18.30	Emma PETERSEN, UAL, Almeria, Spain: “Deboronation of phosphines containing amine acids. Theoretical and experimental results”

“CATALYSIS IN AQUEOUS MEDIA” WORKSHOP



19 -	Registration, welcoming reception, poster set-up
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Friday, November 30

9.00 – 10.25	Session I – Chairman: Rudi van Eldik
9.00 - 9.45	Ronny NEUMANN, WIS, Rehovot, Israel “Organic Chemistry in Water – Polyethylenimine Based Compounds as Facilitators for Catalytic Transformations in Water”
9.45 – 10.05	Laurent RUHLMANN, UP11, Orsay, France “Photocatalytic reduction and recovery of silver by Dawson-derived sandwich complex. Mechanistic implications”
10.05 – 10.25	Radek CIBULKA, ICT, Prague, Czech Republic “Flavin based oxidation catalysts”
10.25 – 11.05	COFFEE BREAK and POSTER SESSION
11.05 – 12.50	Session II – Chairman: Armando Pombeiro
11.05 – 11.25	Chiara DINOI, LCC, Toulouse, France “Efficient oxidation of thiophene derivatives catalyzed by organomolybdenum”

	and -tungsten oxido complexes”
11.25 – 11.45	Sijbren OTTO, UC, Cambridge, UK “Catalysts from Dynamic Combinatorial Libraries in Water”
11.45 – 12.05	Gian Luigi PULEO, SNSP, Pisa, Italy “Influence of water in the aldol reaction promoted by prolinamide derivatives of bile acids as asymmetric organocatalysts”
12.05 – 12.50	Jean Pierre GENET, LSSOPN, Paris, France “Recollections and New Developments in Transition Metal-Catalyzed Reactions in Aqueous Medium-Synthetic Applications”
13.00 – 15.00	LUNCH-POSTERS
15.00 – 16.25	Session III – Chairman: Natalia V. Belkova
15.00 – 15.45	Agusti LLEDOS, UAB, Bellaterra, Spain “Reactions in a reactive medium: Mechanistic features of organometallic hydrogenations in water”
15.45 – 16.05	Oleg FILIPPOV, INEOS, Moscou, Russia “Solvent Effects in Dihydrogen Bonding: A Computational Analysis”
16.05 – 16.25	Kati VILONEN, TTK, Espoo, Finland “Enzymatic isomerization reactions in aqueous solvent – need of activity coefficients for calculations?”
16.25 – 17.00	COFFEE BREAK and POSTER SESSION
17.00 – 18.25	Session IV – Chairman: Antonio Romerosa
17.00 – 17.20	David COQUIERE, UG, Groningen, The Netherlands “DNA-Based Catalytic Enantioselective C-C Bond Forming in Water”
17.20 – 17.40	Ambroz ALMASSY, UD, Debrecen, Hungary “Synthesis and catalytic activity of water-soluble Au(I)-NHC complexes”
17.40 – 18.25	Luca GONSALVI, ICCOM, Firenze, Italy “Aqueous phase catalysis, organometallic reactivity and much more: the renaissance of the water soluble monodentate phosphine PTA”

Saturday, December 1

9.00 – 10.25	Session V – Chairman: Robin Perutz
9.00 - 9.45	David COLE-HAMILTON, EastCHEM, St. Andrews, Scotland “Tackling a 30 year old problem: Fast reactions of medium chain-length alkenes under aqueous biphasic conditions with rapid phase separation”
9.45 – 10.05	Frédéric HAPIOT, UCCS, Lens, France “Biphasic Catalysis Promoted by Modified Cyclodextrins: Current Scope and Future Developments”
10.05 – 10.25	Andreas JENTYS, TUM, Garching, Germany “Hydrogen production by aqueous-phase reforming of Glycerol on supported metal catalysts”
10.25 – 11.05	COFFEE BREAK and POSTER SESSION
11.05 – 12.50	Session VI – Chairman: Ovadia Lev
11.05 – 11.25	Nicolas LEGAGNEUX, C2P2, Villeurbanne, France “Pd(TPPTS) ₃ reactions with butenols and butadiene in water”
11.25 – 11.45	Jacqueline COLLIN, ICMO, Orsay, France “A recyclable multi-substrates catalytic system for enantioselective reduction of ketones in water”
11.45 – 12.05	Vanessa LANDAETA, ICCOM, Firenze, Italy “Synthesis and Characterization of Novel Iridium Complexes

	with Water-Soluble Phosphine Ligands”
12.05 – 12.50	Ferenc JOO, UD , Debrecen, Hungary “Transition Metal-N-Heterocyclic Carbene Complexes as Catalysts of Hydrogenation, Transfer Hydrogenation, Hydration and Redox Isomerization in Homogeneous and Biphasic Media”
13.00	LUNCH

**AQUACHEM (RTN N° MRTN-CT-2003-503864)
FINAL MEETING, PART II**



15.00 - 15.05	Maurizio PERUZZINI, ICCOM , Florence, Italy: Short notes of the AQUACHEM Coordinator
15.05 - 15.20	Natalia BELKOVA, INEOS , Moscow, Russia: Presentation of the AQUACHEM activity at INEOS
15.20 - 15.35	Antonio ROMEROSA, UAL , Almeria, Spain: Presentation of the AQUACHEM activity at UAL
15.35 - 15.50	Armando POMBEIRO, IST , Lisbon, Portugal: Presentation of the AQUACHEM activity at IST
15.50 - 16.05	Rudi VAN ELDIK, UEN , Erlangen, Germany: Presentation of the AQUACHEM activity at UEN
16.05 - 16.30	COFFEE BREAK
16.30 - 16.45	Robin PERUTZ, YORK , York, United Kingdom: Presentation of the AQUACHEM activity at YORK
16.45 - 17.00	Agusti LLEDOS, UAB , Bellaterra, Spain: Presentation of the AQUACHEM activity at UAB
17.00 - 17.15	Ovadia LEV, HUJ , Jerusalem, Israel: Presentation of the AQUACHEM activity at HUJ
17.15 - 17.30	Ferenc JOO, UD , Debrecen, Hungary: Presentation of the AQUACHEM activity at UD
17.30 - 17.45	Anne-Marie CAMINADE, LCC , Toulouse, France: Presentation of the AQUACHEM activity at CNRS-LCC/a
17.45 - 18.00	Rinaldo POLI, LCC , Toulouse, France: Presentation of the AQUACHEM activity at CNRS-LCC/b
18.00 - 18.15	Luca GONSALVI, ICCOM , Florence, Italy: Presentation of the AQUACHEM activity at ICCOM
18:30 -	Brainstorm and discussion of possible future activities

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MINUTES OF THE FINAL AQUACHEM MEETING

November 29, 2007 – Final AQUACHEM Meeting I

1. Opening remarks

The opening remarks were given by the Aquachem Coordinator Dr Maurizio Peruzzini. On behalf of all participants, the Coordinator thanked the Organising Team at LCC for hosting the event. A complete analysis of the Scientific and Training achievements was then presented, in particular highlighting the matching of the main deliverables as from the contract, witnessing the high degree of integration and collaboration among the partners reached after four years of Aquachem joint activity. Of particular interest was the high productivity of the YS secondment activities which have generated not only new collaborations and consolidate joint projects, but also resulted in many high level scientific publications in peer-reviewed journals based directly on the work of the ER/ESRs. The number of joint publications will at the end overcome that forecasted as deliverable (20) in the original proposal. A large number of single team articles and communications to conferences stemming directly from Aquachem activities has been produced and is collected in the final report as well as the Aquachem webpage.

Great delight was expressed by all partners in receiving the information that the third year financial report was approved and part of the EC contribution sent to the Coordinator financial office.

Finally, the Coordinator delivered thanks to all partners for their collaboration and achievements and special thanks to the team in Florence, especially to the Network Manager Dr Luca Gonsalvi.

2. Presentations by the Young Scientists

Eight oral presentations were made by the ER/ESRs attending the meeting and CIAM workshop during both events, and in some cases poster were also presented during the poster sessions. All presentations clearly showed that in all cases the YS have carried out high level research both within the borders of Aquachem formal activity (ie. Transition Metal Chemistry and Catalysis in Water) and beyond as witnessed by the various aspects and fields of application of the compounds synthesised and techniques

applied in the various laboratories. Both scientific and complementary training of the YS could be appreciated by the audience also from the point of view of good communication and language level.

November 30, 2007 – December 1

CIAM Workshop

December 1 – Final AQUACHEM Meeting II

The final Aquachem meeting was nicely complemented by the Second Aquachem Workshop, fully dedicated to Catalysis in Aqueous Media (CIAM). Six plenary lectures and fifteen oral communications were delivered, showing the high degree of multi-disciplinarity of such a field as organometallic aqueous chemistry. The contribution of the Network of Excellence IDECAT was also thanked for financial support. The book of abstracts of the workshop is available in the Internal Pages (password protected) of the Aquachem website.

3. Presentations by the Group Leaders

All group leaders showed a summary of the main achievement within the Aquachem activities for the main aspects of Science, Training and Management (the latter by the Coordinator's team). In general, all partners acknowledged the EC contribution and support for the opportunity to work as a network able to spur new research interests and collaborations some of which are planned to be continued after the expiration of Aquachem consortium. Again the work of the coordinator and his team was gratefully acknowledged.

4. Round Table Discussion and Conclusions

In the final roundtable discussion the partners highlighted the pros and cons after four years of joint activity. The YS present were involved in the discussion. Whereas a general appreciation of the science and training was shown, concerns were raised by some partners about the short term-high pay of the YS which in some cases exceeded the average salaries of the leading scientists, and in all cases hampered the full exploitation of the YS skills gained after the initial training, and a general suggestion

was to favour longer appointments for the same pay, thus allowing for a more balanced recruitment policy within each group giving the possibility to the YS to take full advantage of their stay, and terminate when possible the work started.

Another issue raised by some of the partner was the complicated system for financial report chosen by EC in the 6th FP, and the long delay needed to get refunding of the expenses, which often implied borrowing resources from other projects when possible or striving to stay within local team balances in the most unfavorable cases.

In the final round-up both the Coordinator and the Network Manager pointed out the feeling of general improvement of the procedures observed along the four years of activity, and agreed that all the suggestions and remarks would have been delivered to the EC within the Final Report.