



Plasma-assisted catalysis: recent advances and perspectives

Monday 28 November 2011

Congress Centre 't Elzenveld, Antwerp, Belgium

Programme

08h30	Registration
09h00	Welcome address
09h10	Xin Tu and J. Christopher Whitehead (The University of Manchester, School of Chemistry, Plasma Chemistry group, Manchester, Great Britain) <i>Plasma-catalysis for waste gas conversion.</i>
09h50	Paolo Tosi (University of Trento, Department of Physics, Povo di Trento, Italy) <i>Production of liquid compounds in dielectric barrier discharges of methane containing mixtures.</i>
10h30	Coffee break
10h50	Tomohiro Nozaki (Tokyo Institute of Technology, Department of Mechanical and Control Engineering, Tokyo, Japan) <i>Recent advances in non-thermal plasma catalysis of methane.</i>
11h30	Bert Verheyde (VITO - Flemish Institute for Technological Research, Plasma Technology group, Mol, Belgium) <i>Plasma-assisted CO₂ splitting: energy efficiency and perspectives.</i>
12h00	Christophe De Bie (University of Antwerp, Department of Chemistry, Research group PLASMANT, Antwerp-Wilrijk, Belgium) <i>Modelling for a better insight in the plasma-assisted conversion of greenhouse gases.</i>
12h30	Lunch break
13h30	Richard van de Sanden (FOM Institute for Plasma Physics Rijnhuizen, Nieuwegein, The Netherlands & Eindhoven University of Technology, Department of Applied Physics, Group Plasma & Materials Processing, Eindhoven, The Netherlands) <i>Solar fuels: a plasma perspective.</i>
14h10	Jürgen Röpcke (Leibnitz Institut für Plasmaforschung und Technologie eV, Greifswald, Germany) <i>On the reactivity of plasma stimulated catalytic surfaces.</i>
14h50	Coffee break
15h10	Nuno R. Pinhão (ITN - Nuclear and Technological Institute, Unit of Physics and Accelerators, Sacavém, Portugal) <i>Improving the energy efficiency in the conversion of methane and carbon dioxide in DBD discharges.</i>
15h50	Frederic Thibault-Starzyk (Ecole Nationale Supérieure d'Ingénieurs de Caen, Laboratoire Catalyse et Spectrochimie, Caen, France) <i>In situ and operando IR spectroscopy for plasma in catalysis.</i>
16h30	Bert Sels (Catholic University of Leuven, Centre for Surface Chemistry and Catalysis, Leuven-Heverlee, Belgium) <i>Low temperature reforming in atmospheric plasmas.</i>
17h00	Concluding remarks



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Practical information

The symposium is jointly organized by the Research group PLASMANT of the University of Antwerp, the Plasma Technology group of VITO – Flemish Institute for Technological Research, the Centre for Surface Chemistry and Catalysis of the Catholic University of Leuven, and FLAMAC a division of Strategic Initiative Materials in Flanders (SIM). Organized in the framework of a "strategic basic research" project of the "IWT - Innovation by Science and Technology Agency" of the Flemish Government, and with financial support from FWO Research Foundation Flanders.



This activity will take place on Monday 28th November 2011 at the Congress Centre 't Elzenveld (Lange Gasthuisstraat 45, Antwerp, Belgium; www.elzenveld.be).

Registration and payment of the € 150 participation fee before November 15th. This fee includes coffee breaks and lunch. The registration form can be found at:

http://webh01.ua.ac.be/plasma/events/Symposium_28112011_RegistrationForm.pdf

Organizers:

- Prof. dr. Annemie Bogaerts (Universiteit Antwerpen)
- Dr. Sabine Paulussen (VITO – Vlaamse Instelling voor Technologisch Onderzoek)
- Prof. dr. Bert Sels (Katholieke Universiteit Leuven)
- Dr. Johan Paul (FLAMAC)
- Luc Van't dack (Universiteit Antwerpen)

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