Lille, France July 5-10, 2009

6wcoc

6th World Congress on Oxidation Catalysis

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Towards an integrated approach in innovation and development

Programme

Lille – France
July 5-10, 2009

www.6wcoc.org

Welcome to Lille for the sixth World Congress on Oxidation Catalysis (6WCOC).
Originating from the European Workshop on Selective Oxidation held at Louvain-la-Neuve, Belgium, 1985, five successful congresses have been organized: at Rimini (Italy) 1989; Benalmadena (Spain) 1993; San Diego (USA) 1997; Postdam (Germany) 2001 and Sapporo (Japan) 2005.

As suggested by its subtitle, '**Towards an integrated approach in innovation and development**', and with your help, the 6WCOC offers an update of innovation in fundamental and applied aspects of oxidation catalysis. In organizing the sessions, we tried to consider the level of maturity and thus readiness for implementation for commercial processes. The 560 received contributions were distributed accordingly.

We hope that you will enjoy the five invited lectures, 23 keynotes, 116 oral and 350 posters covering preparation, characterization, catalytic properties and chemical engineering in heterogeneous, homogeneous and bio-enzymatic catalyses.

We wish you a pleasant congress and fruitful discussions.

On behalf of the Organizing Committee,

Prof. Elisabeth BORDES-RICHARD and Prof. Patricio RUIZ (Chairs),
Prof. Eric GAIGNEAUX and Prof. Edmond PAYEN (Vice-Chairs),
Dr Axel LÖFBERG (Secretary)

Congress topics

1 - Fundamentals and analysis
- **1A—Fundamentals (surface science, mechanisms, modelling, etc.)**
- **1B—Catalysts preparation. Novel catalysts. New advanced methods.**
- **1C—Nanosized and nanostructured catalysts**
- **1D—Characterization and in situ/operando analyses of catalysts Catalyst screening, including combinatorial**

2 - Towards transferability: from fundamental to application
- **2A—New developments and new processes**
- **2B—Reactors and processing**

3 - Transferred technologies & industrial processes:
- **3A—Petrochemical: raws and intermediates**
- **3B—Fine chemicals and pharmaceuticals**
- **3C—Sustainable catalytic processes for environment and energy**

6WCOC Committees

Local Organizing Committee

Chairs: Prof. Elisabeth Bordes-Richard
and Prof. Patricio Ruiz
Vice-Chairs: Prof. Eric Gaigneaux
and Prof. Edmond Payen
Secretary: Dr Axel Löfberg
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Prof. Etienne Craye, Director of Ecole Centrale de Lille
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Topics Expert Panels

1—Fundamentals and analysis:

1A—Fundamentals (surface science, mechanisms, modelling, etc.)

Prof. Daniel Duprez (F), Prof. Norbert Kruse (B)

Expert Panel members: Prof. Gabriele Centi (I), Prof. José Luis Garcia Fierro (E), Prof. H.-J. Freund (D), Prof. Vadim V. Guliants (USA), Prof. Leon Lefferts (NL), Prof. Daniel Mansuy (F), Prof. István E. Markó (B), Dr Cesar Mateo (E), Prof. Matthew Neurock (USA), Prof. Marie-Françoise Reyniers (B), Prof. Joachim Sauer (D), Prof. Malgorzata Witko (PL)

1B—Catalysts preparation. Novel catalysts. New advanced methods. Nanosized and nanostructured catalysts

Dr Catherine Louis (F), Prof. Bao-Lian Su (B)

Expert Panel members: Prof. Jean-Marie Basset (F), Dr Magali Boutonnet (S), Dr Vicente Cortès-Corberan (E), Dr Sophie Hermans (B), Dr Gerhard Mestl (D), Prof. Eduardo Miro (Arg), Dr Georgiy B. Shul'pin (RU), Prof. Wataru Ueda (J)

1C—Characterization and in situ/operando analyses of catalysts

Dr Marco Daturi (F), Prof. Serge Hoste (B)

Expert Panel members: Dr Miguel Bañares (E), Dr Simon Bare (USA), Prof. Angelika Brückner (D), Prof. Valerii Bukhtiyarov (RUS), Prof. Jean-François Lambert (F), Prof. Can Li (CN), Prof. Gopinathatn Sankar (UK), Dr Jeroen A. van Bokhoven (CH), Prof. Israel E. Wachs (USA), Prof. Bert Weckhuysen (NL)

1D—Catalyst screening, including combinatorial

Dr Claude Mirodatos (F), Prof. Bert Sels (B)

Expert Panel members: Prof. Avelino Corma (E), Dr Jochen Lauterbach (USA), Prof. Johannes Lercher (D), Dr Jan Lerou (USA), Prof. Wilhelm F. Maier (D), Prof. József L. Margitfalvi (H), Dr Johan Paul (B)

2—Towards transferability: from fundamental to application

2A—New developments and new processes

Prof. Michel Devillers (B), Dr Jean-Marc Millet (F)

Expert Panel members: Prof. Michele Aresta (I), Dr José A.S. Cavaleiro (P), Dr Peter Guengerich (USA), Prof. Kieran Hodnett (IRL), Pr Wolfgang F. Hölderich (D), Dr Oxana A. Kholdeeva (Ru), Prof. Wolfgang Kroutil (A), Prof. Andreas Martin (D), Prof. Miguel Menendez (E), Prof. José M. Lopez Nieto (E), Prof. Umit Ozkan (USA), Dr Carlo Perego (I), Dr Franck Rosowski (D), Prof. Andreas Schmid (CH), Dr. Stuart Taylor (UK), Prof. Angelo Vaccari (I)

2B—Reactors and processing

Prof. Guy Marin (B), Prof. Daniel Schweich (F)

Expert Panel members: Dr Luca Basini (I), Prof. Gerhard Emig (D), Dr Marvin Estenfelder (I), Dr Gianpiero Groppi (I), Prof. Freek Kapteijn (NL), Dr Lioubov Kiwi-Minsker (CH), Dr Udo Kragl (D), Prof. Angeliki Lemonidou (GR), Prof. Tapio Salmi (FIN), Prof. Jesús Santamaría (E), Prof. Götz Veser (USA)

3—Transferred technologies & industrial processes:

3A—Petrochemical: raws and intermediates

Dr Jean-Luc Dubois (F), Dr Veron Nsunda (B)

Expert Panel members: Dr Stephan Altwasser (D), Dr M. Ayala (MX), Prof. Douglas Buttrey (USA), Prof. Fabrizio Cavani (I), Dr John Couves (UK), Dr Josef J. Dannacher (CH), Dr Jean-Pierre Dath (B), Dr Uwe Dingerdissen (D), Dr Wladimir Ferraz de Sousa (BR), Dr Anne Gaffney (USA), Dr Anders Holmen (N), Dr Jesús Lázaro Muñoz (E), Dr Philippe Marion (F), Prof. Sang-Eon Park (KR), Dr Gregory S. Patience (CAN), Prof. Javier Pérez-Ramírez (E), Dr Takashi Ushikubo (Japan)

3B—Fine chemicals and pharmaceuticals

Dr Michèle Besson (F), Prof. Dirk De Vos (B)

Expert Panel members: Dr Paul L. Alsters (NL), Prof. Isabel Arends (NL), Dr Anne Galarneau (F), Dr Yasutaka Ishii (J), Dr Eric Lacroix (F), Dr Tamas Mallat (CH), Prof. Vasile I. Parvulescu (RUM), Prof. Giorgio Strukul (I)

3C—Sustainable catalytic processes for environment and energy

Dr Joël Barrault (F), Prof. Benoît Heinrichs (B)

Expert Panel members: Dr Pilar de Frutos Escrig (E), Dr Koichi Eguchi (J), Prof. Pio Forzatti (I), Prof. Marco W. Fraaije (NL), Prof. Raymond J. Gorte (USA), Prof. Jean-Marie Herrmann (F), Prof. Sven G. Järås (S), Dr Jean-Pierre Joulin (F), Prof. Janez Levec (SLO), Prof. Eduardo Lombardo (ARG), Prof. Mario Montes (E), Prof. James J. Spivey (USA), Prof. Xenophon.E. Verykios (GR)

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Exhibitors

The following companies are present as exhibitors at 6WCOC:

ION-TOF GmbH, Münster - Germany
www.iontof.com

Hiden Analytical Ltd, Warrington - United Kingdom
www.hidenanalytical.com

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www.agilent.com & www.sra-instruments.com

Wiley, Oxford - United Kingdom
www.wiley.com

Amtec GmbH, Chemnitz - Germany - www.amtec-chemnitz.de

Social Programme

Registration desk and informal reception - Sunday July 5th 2009.

The **registration desk** will be installed at the **Tri Postal** from 15:00 to 19:00 h. Congress documents, badge and transportation Pass will be delivered to participants.
At 19:00 h, after Tri Postal closure to public, an **informal reception** will be offered to the participants of 6WCOC.

The **Tri Postal** is a building located next to the Lille Flandres railway station. Until 2003 it has been the central post handling and distribution center for Lille. In 2004 it was transformed in a cultural center hosting major exhibitions mostly of contemporary art and concerts for **Lille2004, cultural capital of Europe**. The great success of this event made of **Tri Postal** a landmark in cultural life of Lille.
Presently, the **Tri Postal** hosts an exhibition in the frame of **Lille3000, Europe XXL** presenting artists coming from the eastern part of Europe: ***Invisible frontiers***. You will have the opportunity to visit this exhibition from 15:00 to 19:00.

Official reception - Monday July 6th, evening

The Official Reception is offered by **Martine AUBRY, Mayor of Lille and President of Lille Metropole**. It will take place at the **Palais des Beaux-Arts** (Fine Arts museum).

Due to the size of its permanent collections, the Palais des Beaux -Arts of Lille is considered as the second largest general-interest museum in France, just after the Louvre in Paris. The building, completed between 1885 and 1892, is typical of the monumental architecture of the late 19th century.
Fully renovated in 1997, its 22,000 m² house prestigious collections of European painting (Rubens, Van Dyck, Goya, Delacroix…), a few key examples of 19th century French painting, a large collection of drawings (including 40 sheets by Raphaël), a sculpture gallery (Carpeaux, Rodin, Claudel, Bartholdi…) and 17th and 18th century ceramics.
The permanent collections of the museum will be open up to 21:00 during the cocktail.

Busses will leave the congress site after the last session (around 18:45 h). See invitation for further details of the programme of the reception.

Excursion - Wednesday July 8th, afternoon & evening

The Excursion will take place in **Belgium** in order to outline the joint organization of 6WCOC by a belgian an a french laboratory.

You will discover some of the masterpieces of past and present belgian engineering: the boat elevators of the **Canal du Centre**. In the mid 1990's, the 19th century elevators (World Heritage site by UNESCO) were replaced by one giant boat lift at **Strépy-Thieu**. During the visit, you will visit the machinery, and see a short film of the history of these installations. You will then embark on boats and experience the 73m travel down (or up) the elevator. A short navigation will enable you to see one of the four historic boat-lifts.

After the visit at the Canal du Centre a stop on the way back to Lille will take place at the **Chateau de Beloeil**, a beautiful castle which is, since the XIVth century, the residence of princes de Ligne . After the visit of the castle and its french garden, a refreshment will be offered to participants in the **Orangerie**.

If you have not booked the excursion (included in registration fee) when registrating, you may still participate by contacting the registration desk on Monday, July 6th.
Busses will leave the congress site after lunch (at 13:30).
Participants must bring their Passport or ID card (contact the Information Desk if you do not have Schengen visa).
Return to Lille is planned at ca. 23:00.

Congress dinner - Thursday July 9th evening

The Congress dinner will take place in the **Great Hall** of the **Chamber of Trade and Industry of Grand Lille** (CCI Grand Lille).

The CCI Grand Lille is located in the center of Lille next to the Opera. It is a typical example of french-flemish architecture. The belfry symbolises the power and importance of commerce in the region.

If you have not booked the Congress Dinner (80 €) when doing registration, you may still buy tickets at the registration desk on Monday July 6th, and until 12:00 h on Tuesday July 7th.

Monday, July 6, 2009

1	Plenary session	Alpha Hall
9:00 -	OPENING CEREMONY	
09:20 IL1-IL	Atomic Aspects on Surface Chemical Reaction *K. Asakura*	

2	Plenary session	Alpha Hall
10:40 KN1-2B	Challenges in applied oxidation catalysis *G. Mogensen, K. Herbst, F. Huber, S. Dahl, M. Østberg, M. Skjøth-Rasmussen*	
11:05 KN2-1B	Clean Synthesis of oximes and amides over novel titanosilicate catalysts *S. Zhao, N. Li, W. Xie, Z. Zhao, Y. Liu, H. Wu, X. Li, M. He, P. Wu*	
11:30 KN3-2A	H2 generation through short contact time - catalytic partial oxidation technologies: from Fundamentals to Application *L. Basini, G. Campanelli, R. Cimino, C. Ficili, A. Guarinoni, A. Lainati, R. Ponzo*	
11:55 KN4-3B	One-pot generation of reactive oxidants for fine chemicals productions: molecular transportation of active oxygen from the catalytic surface to the bulk. *B. Sels, D. De Vos, P. Jacobs*	

3	Parallel session	1A	Beta Hall
14:00 O79-1A	The effect of the supporting oxide on the activity of vanadia catalysts *J. Sauer, V. Ganduglia-Pirovano, C. Popa, V. Brazdova, T. Todorova, Y. Shimodaira*		
14:20 O1-1A	The Detailed Kinetics and Mechanism of Ethylene Epoxidation on an Oxidised Ag/α-Al2O3 Catalyst *K. Waugh, M. Hague*		
14:40 O2-1A	Oxygen Mobility of Pt-promoted Doped CeO2-ZrO2 Solid Solutions: Characterization and Effect on Catalytic Performance in Syngas Generation by Fuels Oxidation *V. Sadykov, V. Muzykantov, N. Mezentseva, A. Bobin, C. Mirodatos*		
15:00 O3-1A	Quantum mechanics and reactive dynamics multi-paradigm simulations of selective oxidations by metal oxide catalysts. *W. Goddard, K. Chenoweth, S. Pudar, M. Cheng, A. van Duin, R. Nielsen*		
15:20 O4-1A	The Past and Future of (Catalytic) Autoxidations *U. Neuenschwander, N. Turrà, J. Peeters, P. Jacobs, I. Hermans*		
15:40 O6-1A	Polymer-Supported-Metal Complexes: Catalysts for the CWHPO of Phenol *I. Castro, D. Sherrington, A. Fortuny, A. Fabregat, F. Stüber, J. Font, C. Bengoa*		

4	Parallel session	1B	Alpha Hall
14:00 O7-1B	Preferential CO oxidation in H2-rich gas over Au/CeO2 catalysts: Effects of nanoscale CeO2 shapes and Au species on the activity *G. Yi, Z. Xu, G. Guo, K. Tanaka, Y. Yuan*		
14:20 O8-1B	Ce-Fe and Au/Ce-Fe catalysts for total and preferential oxidation of CO (TOX and PROX) *O. Laguna, M. Centeno, G. Arzamendi, L. Gandía, F. Romero Sarria, J. Odriozola*		
14:40 O9-1B	Design of hybrid titania nanocrystallites as supports for gold oxidation catalysts *V. Mendez, V. Caps, S. Daniele*		
15:00 O10-1B	MWCNTs supported Au, Pd and Au/Pd in the liquid phase oxidation of alcohols *A. Villa, D. Wang, P. Spontoni, L. Prati, D. Su*		
15:20 O11-1B	Supported gold catalysts for the decomposition of Volatile Organic Compounds: Total oxidation of propene as model reaction *K. Fajerwerg, L. Pandian, C. Potvin, C. Méthivier, L. Delannoy, C. Louis*		
15:40 O12-1B	Design of nano-sized Pd and PdAu catalysts by the photo-assisted deposition method using single-site photocatalyst *H. Yamashita, Y. Miura, S. Shironita, T. Kamegawa, K. Mori*		

5	Parallel session	2A	Gamma Hall
14:00 O13-2A	Remarkable Effect of Solvents in the Epoxidation of Alkenes Catalyzed by Titanoslicate Zeolites *T. Tatsumi, W. Fan, T. Yokoi, R. Watanabe*		

14:20 O14-2A	Ammoxidation of 2,6-dichlorotoluene – from first trials to pilot plant studies *A. Martin, V. Kalevaru, Q. Smejkal*
14:40 O15-2A	DISY: toward a new process for the Direct Synthesis of Hydrogen Peroxide. *G. Paparatto, R. Buzzoni, F. Rivetti*
15:00 O16-2A	Enhanced Oxidation of 2,2'-Azino-di-(3-ethylbenzthiazoline-6-sulphonic acid) by Myoglobin Immobilized on Mesoporous Materials. *H. Essa, E. Magner, J. Cooney, B. Hodnett*
15:20 O17-2A	Oxidation of Alkane using PtO/Eu2O3/TiO2/SiO2 Catalyst with O2 and H2 in Acetic Acid under Mild Conditions. *I. Yamanaka, Y. Suzuki, M. Toita*
15:40 O18-2A	Reaction Products and Pathways in the Selective Oxidation of C2-C4 alkanes on MoVTeNb mixed oxide catalysts *J. Lopez Nieto, b. Solsona, P. Concepción, F. Ivars, A. Dejoz, I. Vazquez*

6	**Parallel session**	**3B**	**Delta Hall**

14:00 O19-3B	Aromatic diselenides as catalysts in the oxidations of alcohols; new mechanistic insights and the unexpected effect of substituents *J. van der Toorn, G. Kemperman, R. Sheldon, I. Arends*
14:20 O20-3B	A general biomimetic iron-imidazole system for the epoxidation of olefins *K. Schröder, B. Bitterlich, T. Schulz, M. Tse, A. Spannenberg, K. Junge, M. Beller*
14:40 O21-3B	Homogeneous oxidation catalysis by Proline-based manganese complexes *M. Moelands, M. Lutz, A. Spek, G. van Koten, B. Klein gebbink*
15:00 O22-3B	Oxidation of indole with CPO and GOx immobilized on mesoporous molecular sieves *M. Hartmann, D. Jung*
15:20 O23-3B	Selective epoxidation of unsaturated fatty esters over oxoperoxophosphotungstic catalysts under solvent free conditions *E. Poli, N. Bion, J. Barrault, Y. Pouilloux, J. Clacens*
15:40 O24-3B	Aerobic oxidation of dibenzylamine by in situ formed gold nanoparticles *L. Aschwanden, T. Mallat, J. Grunwaldt, F. Krumeich, A. Baiker*

7	**Parallel session**	**1C**	**Gamma Hall**

16:30 O25-1C	Redox reaction events monitored at single molecule level: Direct observation of the influence of diffusion phenomena on catalysis *G. De Cremer, V. Martinez, M. Roeffaers, D. De Vos, J. Hofkens, B. Sels*
16:50 O26-1C	High Energy Diffraction and Open Cell Architectures to study Catalysts in Action: Towards more 'Operando-like' conditions. *M. O'Brien, A. Beale, S. Jacques, M. Di Michiel, T. Buslaps, V. Honkimaki, B. Weckhuysen*
17:10 O27-1C	Spatially Resolved Reactor Profiles of Species and Temperatures as Novel Tool for Mechanistic Studies in High Temperature Oxidation Catalysis *R. Horn, O. Korup, M. Geske, U. Zavyalova, R. Schlögl*
17:30 O28-1C	Resolving the Contributions of Surface Lewis and Bronsted Acid Sites during NOx/NH3 SCR : An Operando TP-IR Spectroscopy Investigation *K. Doura, I. Malpartida, M. Daturi, I. Wachs*
17:50 O29-1C	In situ X-ray absorption study of the total oxidation of propane over CuO-CeO2/Al2O3 *K. Alexopoulos, M. Reyniers, H. Poelman, S. Cristol, V. Balcaen, P. Heynderickx, D. Poelman, G. Marin*
18:10 O30-1C	In-situ study of ozone interaction with Ag-Al catalysts: first evidence of active sites nature *B. Cojocaru, V. Parvulescu, V. Parvulescu, J. Hu, R. Richards, H. Daly, C. Hardacre*

8	**Parallel session**	**1B**	**Alpha Hall**

16:30 O31-1B	Novel Propane Ammoxidation Catalyst Containing neither Mo nor Sb *E. Mamedov, S. Shaikh, A. Araujo*
16:50 O32-1B	Ni-based mixed metal oxides for the effective oxidative dehydrogenation of ethane to ethylene *E. Heracleous, D. Sfakianakis, A. Lemonidou*
17:10 O33-1B	The synthesis of oxidation catalysts using a block copolymer template. *Z. Lin, W. Weng, C. Kiely, N. Dummer, J. Bartley, G. Hutchings*
17:30 O34-1B	The design of a new ZrO2-supported V/P/O catalyst for n-butane oxidation to maleic anhydride: the build-up of the active phase during the thermal treatment *A. Caldarelli, S. Luciani, N. Ballarini, F. Cavani, F. Trifirò, C. Cortelli, R. Leanza*

17:50 O35-1B
Evaluation and characterisation of DuPont V-P-O/SiO2 catalysts
N. Dummer, W. Weng, C. Kiely, A. Carley, J. Bartley, C. Kiely, G. Hutchings

18:10 O36-1B
Particle Size Effect in Selective Oxidation of Propane to Acrylic Acid over Nanostructured MoVOx-based Catalysts
Y. Kolen'ko, W. Zhang, T. Wolfram, A. Celaya Sanfiz, F. Girgsdies, D. Su, A. Trunschke, R. Schlögl

9 Parallel session 1B Beta Hall

16:30 O37-1B
Catalytic Partial Oxidation of CH4 over Ni-Substituted Barium Hexaaluminate Catalysts
T. Gardner, E. Kugler, J. Hissam, A. Campos, J. Spivey, A. Roy

16:50 O38-1B
Methane oxidation by lattice oxygen of Ni/BaTi1-xInxO3-□ catalysts.
V. Garcia, M. Caldes, O. Joubert, F. Mondragón, A. Moreno

17:10 O39-1B
New advanced uranium oxide catalysts
Z. Ismagilov, N. Shikina, V. Kuznetsov, S. Kuntsevich, V. Rogov, V. Ushakov, N. Rudina, V. Zaikovskii

17:30 O40-1B
Oxidation of methane in water at ambient conditions
A. Sorokin, E. Kudrik, P. Afanasiev, J.M.M. Millet, D. Bouchu

17:50 O41-1B
Modified cryptomelane-type manganese dioxide nanomaterials for preferential oxidation of CO in presence of hydrogen
W. Hernández Enciso, M. Centeno, M. Montes, J. Odriozola

18:10 O42-1B
Copper grafted on SBA-15 as efficient catalyst for the selective oxidation of methane by oxygen
Y. Wang, D. An, Q. Zhang

10 Parallel session 3C Delta Hall

16:30 O43-3C
Highly efficient deep desulfurization of fuels by chemical oxidation
M. Capel-Sanchez, P. Perez-Presas, J. Campos-Martin, J. Fierro

16:50 O44-3C
Control of Oxygen Mobility in Doped LaFeO3 as SOFC Catalysts
N. Lakshminarayanan, H. Choi, J. Kuhn, J.M.M. Millet, U. Ozkan

17:10 O45-3C
Effect of metal support-interaction on oxidation catalysis of volatile organic compounds
K. Eguchi, N. Kamiuchi, T. Mitsui, T. Matsui

17:30 O46-3C
Performances of soluble metallic salts in the catalytic wet air oxidation of sewage sludge
M. Bernardi, D. Cretenot, S. Deleris, C. Descorme, J. Chauzy, M. Besson

17:50 O47-3C
Photo catalytic generation of sulphate radicals using zinc oxide to oxidise phenolic contaminants in waste water
P. Shukla, I. Fatimah, S. Wang, H. Ang, M. Tadé

18:10 O48-3C
Cu-doped ceria regenerative catalyst for preferential oxidation of CO in H2-rich streams
A. Razeghi, N. Hosseinpour, A. Khodadadi, Y. Mortazavi

Tuesday, July 7, 2009

11	Plenary session	Alpha Hall
08:30 IL2-IL	Catalytic selective oxidation: the forefront in the challenge for a more sustainable industrial chemistry *F. Cavani*	
09:20 KN5-3A	Effect of oxidation time on maleic anhydride production rate during redox operations *A. Shekari, G. Patience*	
09:45 KN6-1B	Preparation of Au-Pd/C catalysts by controlled adsorption of metallic species in aqueous phase for selective oxidations *A. Deffernez, S. Hermans, M. Devillers*	

12	Plenary session	Alpha Hall
10:40 KN7-1B	Morphology-dependent redox and catalytic properties of CeO2 nanostructures: wires, rods and particles *N. Ta, J. Li, H. Li, Y. Li, W. Shen*	
11:05 KN8-3C	Eco-friendly TiO2-AC photocatalyst for the selective photooxidation of 4-Chlorophenol *J. Matos, A. García, J. Chovelon, T. Cordero, C. Ferronato*	
11:30 KN9-1B	Oxidation reactions using air as oxidant thanks to silica nanoreactors containing GOx/Peroxidases bienzymatic systems *P. Laveille, L. Truong Phuoc, J. Drone, G. Renard, F. Fajula, A. Galarneau*	
11:55 KN10-3B	An Efficient Oxidative Alkyne-Alkyne Homocoupling by a Dicopper-Substituted Silicotungstate *N. Mizuno, K. Yamagushi, K. Kamata*	

13	Parallel session	1B	Alpha Hall
14:00 O49-1B	Volatile Organic Compound Oxidation using Transition Metal Catalysts *M. Kennedy, A. Fletcher, M. Thomas*		
14:20 O50-1B	Synthesis of Co supported catalysts using "memory effect" of Mg–Al hydrotalcite for VOCs oxidation *C. Gennequin, H. Tidahy, S. Siffert, R. Cousin, J. Lamonier, A. Aboukaïs*		
14:40 O51-1B	The role of VOx species in chlorobenzene oxidation by flame- and wet-made V2O5/TiO2 *B. Schimmöller, R. Delaigle, D. Debecker, E. Gaigneaux, S. Pratsinis*		
15:00 O52-1B	In-situ synthesis of mixed-oxide supported nanoparticles: Effect of crystal size on the redox and catalytic properties. *D. Sellam, M. Bonne, S. Arrii-Clacens, G. Lafaye, S. Royer, N. Bion, S. Tezkratt, P. Marécot, D. Duprez*		
15:20 O53-1B	A practical demonstration of electronic promotion in the reduction of ceria coated PGM catalysts *N. Acerbi, S. Tsang, S. Golunski, P. Collier*		
15:40 O54-1B	Morphology-dependent Catalysis of Co3O4 for CO Oxidation *X. Xie, Y. Li, Y. Lv, W. Shen*		

14	Parallel session	1C	Beta Hall
14:00 O55-1C	Model Pd catalysts at work *R. Westerström, N. Seriani, F. Mittendorfer, J. Harl, G. Kresse, J. Andersen, A. Stierle, M. Schmid, E. Lundgren*		
14:20 O56-1C	In-situ X-ray studies of allylic alcohol oxidation over model and dispersed Pd and Au/Pd catalysts. *A. Lee, S. Hackett, J. Naughton, K. Wilson*		
14:40 O57-1C	A comparative in situ XPS study of PtRuCo catalyst for CH3OH and CO oxidation using water *S. Zafeirtatos, F. Paloukis, B. Moreno, E. Vass, G. Papakonstantinou, D. Teschner, M. Hävecker, E. Chinarro, J. Jurado, A. Knop-Gericke, S. Neophytides, R. Schlögl*		
15:00 O58-1C	The surface dynamics of Vanadium oxide-based catalysts: the generation of the active species in V/P/O and V/O-TiO2 *S. Luciani, N. Ballarini, A. Brentari, F. Cavani, E. Degli Esposti, C. Cortelli, F. Cruzzolin, R. Leanza, E. Bordes-Richard*		
15:20 O59-1C	Activity and selectivity investigations of copper catalysis by CP-Reaction methods *C. Contiu, J. Berg, A. Drochner, H. Vogel*		
15:40 O60-1C	The synergy effect in the bismuth molybdate based catalysts: the approach from conductivity. *M.T. Le, I. Van Driessche, S. Hoste, H. Nguyen, D. Truong, A. Riisager, R. Fehrmann*		

15	Parallel session	3A	Gamma Hall
14:00 O61-3A	Study of Ni-Nb-O catalysts for oxidative dehydrogenation of ethane to ethylene: origin of efficiency and study of stability versus time on stream. *B. Savova, S. Loridant, D. Filkova, J.M.M. Millet*		
14:20 O62-3A	New Silver- and Vanadium-containing Multimetal Oxides for Oxidation of Aromatic Hydrocarbons *F. Rosowski, S. Altwasser, C. Dobner, H. Hibst, S. Storck, J. Zühlke*		
14:40 O63-3A	Production of Acrolein and Acrylic Acid through dehydration and oxydehydration of Glycerol with Mixed Oxide Catalysts *J. Deleplanque, J. Dubois, J. Devaux, W. Ueda*		
15:00 O64-3A	Catalytic Oxicracking as a Route to Olefins-Oxidative Conversion of Hexane over Mo-Li/MgO *C. Boyadjian, I. Babich, L. Lefferts, K. Seshan*		
15:20 O65-3A	Ethanol Oxidation over Zeolite supported Silver Bimetallic Catalysts *R. Al-Hajri, D. Chadwick*		
15:40 O66-3A	Surface modification of cordierite oriented toward the synthesis of a catalyst for a transesterification reaction *H. Galindo, Y. Carvajal, A. Gaffney, S. Suib*		

16	Parallel session	2A	Delta Hall
14:00 O67-2A	Selective oxidation of monosaccharides using Pt and Pd-containing catalysts *E. Sulman, V. Doluda, N. Lakina, A. Bykov, V. Matveeva, A. Sidorov, L. Bronstein, P. Valetsky*		
14:20 O68-2A	Aerobic selective oxidation of alkenes in the liquid phase using gold catalysts *K. Guillois, P. Lignier, B. Istria, J. Ringuet, F. Chieux, V. Caps*		
14:40 O69-2A	Aerobic oxidation of aliphatic and benzylic alcohols *A. Koeckritz, M. Checinski*		
15:00 O70-2A	SiO2-TiO2 mesoporous xerogels – efficient catalysts for the mild oxidation of organic compounds with hydrogen peroxide *A. Cojocariu, A. Aboulaich, H. Mutin, A. Vioux, E. Dumitriu, F. Fajula, V. Hulea*		
15:20 O71-2A	CNTs as a support for palladium in H2O2 direct synthesis from H2 and O2 *S. Abate, D. Di Bella, S. Perathoner, G. Centi, R. Arrigo, A. Villa, D. Su, R. Schloegl*		
15:40 O72-2A	Oxidation of phenol in presence of lacunary Keggin anions – degradation resistant inorganic porphyrin analogues *R. Karcz, K. Pamin, J. Poltowicz, J. Haber*		

17	Poster session	A	Main Hall
16:00 -	Posters from topics 1A, 1B (partial), 2A and 3C		

Wednesday, July 8, 2009

18	Plenary session	Alpha Hall
08:30 IL3-IL	Using time-resolved methods to monitor and understand catalytic oxidation reactions *E. Kondratenko*	
09:20 KN11-2B	Analysis of a multitubular membrane reactor for the oxidative dehydrogenation of ethane to ethylene *M. Rodriguez, D. Ardissone, E. Heracleous, A. Lemonidou, E. Lopez, M. Pedernera, D. Borio*	
09:45 KN12-1A	Copper complexes with donor ligands in the oxidation processes with free radicals participation. *I. Tarkhanova, M. Gantman, V. Smirnov*	

19	Plenary session	Alpha Hall
10:40 KN13-3C	Preferential oxidation of CO in a H2-rich stream in a REDOX two-zone fluidized bed reactor *M. Lobera, C. Tellez, J. Herguido, M. Menendez*	
11:05 KN14-1B	Polyoxometalate-Based Heterogeneous Catalysts for Liquid Phase Selective Oxidations: Comparison of Different Strategies for the Design and Synthesis *O. Kholdeeva, N. Maksimchuk, G. Maksimov*	
11:30 KN15-3C	Development of DPNR catalysts for combined soot oxidation and NOx reduction *R. Matarrese, L. Castoldi, L. Lietti, P. Forzatti*	

Thursday, July 9, 2009

20	Plenary session	Alpha Hall
08:30 IL4-IL	Process Intensification through Integrated Reactor Concepts and Nanoscale Catalyst Engineering *G. Veser*	
09:20 KN16-1D	Dopant Effects on the Performance of VPO-Catalysts: an Integrated High Throughput Experimentation Approach *S. Schunk, N. Brehm, A. Sundermann, S. Altwasser, F. Rosowski*	
09:45 KN17-1B	The role of surface ab plane of Mo-V-Nb-Te-O M1 phase catalysts for ammoxidation of propane to acrylonitrile *V. Guliants, N. Shiju, P. Biswas, J. Woo, X. Liang, A. Weimer, C. Liang, S. Dai, R. ter Veen, T. Grehl, H. Brongersma*	

21	Parallel session	1B	Alpha Hall
10:40 O73-1B	Hydrogen peroxide oxidation of hydrocarbons catalyzed by Al-containing compounds: an accelerating effect of acids *D. Mandelli, K. Chiacchio, Y. Kozlov , G. Shulpin*		
11:00 O74-1B	Hydrocarbon oxidation by homogeneous and heterogeneous manganese(II) and iron(III) catalysts with H2O2 *A. Stamatis, G. Bilis, D. Giasafaki, M. Louloudi*		
11:20 O75-1B	Olefin epoxidation with organic hydroperoxides over nanocrystalline TS-1 exhibiting hierarchical porosity *D. Serrano, R. Sanz, P. Pizarro, I. Moreno*		
11:40 O76-1B	New highly efficient heterogeneous catalysts of Ru-hydroxyapatite substituted with halogens (F, Cl, Br) for aerobic oxidation of alcohols *Y. Zhang, J. Wang, A. Wang, X. Wang, T. Zhang*		
12:00 O77-1B	Controlled synthesis of vanadia supported on SBA-15 by the use of an automated laboratory reactor *K. Pelzer, D. Wang, A. Trunschke, R. Schlögl*		

22	Parallel session	1A	Beta Hall
10:40 O78-1A	Enhancement by Selective Doping and Inhibition by Amorphous Overlayers in MoV(Nb)TeO based Catalysts *R. Grasselli, C. Lugmair, A. Volpe, A. Andersson, J. Burrington*		
11:00 O80-1A	Factors limiting acrylic acid yield in the selective oxidation of propane over MoVTeNb oxides *F. Naraschewski, A. Jentys, J. Lercher*		
11:20 O81-1A	Bulk phase or supported vanadium-(iron)-oxide as catalyst for the selective oxidation of methanol to formaldehyde? *R. Häggblad, M. Massa, A. Andersson*		
11:40 O82-1A	Mechanism of the oxygen involvement in nicotinic acid formation under b-picoline oxidation on vanadia-titania catalyst. *E. Ovchinnikova, Y. Chesalov, G. Popova, T. Andrushkevich*		
12:00 O5-1A	Liquid Phase Glycerol Catalytic Oxidation over Gold Based Catalysts: Activity and Dynamic Measurement of Dissolved Oxygen Concentration *R. Ducoulombier, P. Fongarland, M. Capron, B. Katryniok, M. Bonne, J. Girardon, N. Mimura, S. Paul, S. Royer, P. Marécot, F. Dumeignil*		

23	Parallel session	1D	Gamma Hall
10:40 O83-1D	Development of NiCeO2ZrO2MgAl2O4 biogas reforming catalysts *S. Corthals, J. Van Nederkassel, J. Geboers, H. De Winne, B. Moens, B. Sels, P. Jacobs*		
11:00 O84-1D	Catalytic materials for propane oxidative dehydrogenation: preparation, characterization and functional tests *M. Botavina, G. Martra, Y. Agafonov, N. Gaidai, S. Coluccia, A. Lapidus*		
11:20 O85-1D	Oxidative dehydrogenation of propane over NiOx catalysts supported on high-surface area mesoporous silicas *S. Karakoulia, K. Triantafyllidis, A. Lemonidou*		
11:40 O86-1D	Composite anode materials based on NiO: combinatorial synthesis, characterization and performance in steam reforming of methane and oxygenates *N. Mezentseva, V. Sadykov, G. Alikina, R. Bunina, S. Beloshapkin, J. Ross*		
12:00 O87-1D	High Throughput screening of anode and cathode materials for single-chamber Solid Oxide Fuel Cells (SOFC) *C. Gaudillere, D. Farrusseng, P. Vernoux, L. Olivier, C. Mirodatos*		

24	Parallel session	3C	Delta Hall
10:40 O88-3C	Ir/Ce0.9Gd0.1O2-x as a new potential anode component in Solid Oxide Fuel Cells integrating the concept of Gradual Internal Reforming of methane *H. Belatel, P. Gelin, J. Toyir, A. Kaddouri*		

11:00 O89-3C
CO2 Reforming of Methane over Mixed Catalysts Ce-Zr-Ni-Me.
B. Koubaissy, A. Roger, A. Kiennemenn, A. Pietraszek

11:20 O90-3C
CO2 reforming of CH4 over Ni containing trioctahedral phyllosilicates as catalyst precursors
M. Sivaiah, J. Barrault, S. Petit, C. Batiot-Dupeyrat , S. Valange

11:40 O91-3C
Hydrogen production by ethanol steam reforming over cerium-nickel mixed oxides
C. Pirez, L. Jalowiecki-Duhamel, M. Capron, F. Dumeignil, E. Payen

12:00 O92-3C
Catalytic production of methane from CO2 and H2 at low temperature: insight on the reaction mechanism
M. Soria, M. Jacquemin, N. Bion, D. Duprez, P. Ruiz

25 Parallel session 1B Alpha Hall

14:00 O93-1B
Structure-activity correlations in Pd/Ga2O3 methanol steam reforming catalysts
S. Penner, H. Lorenz, W. Jochum, M. Stöger-Pollach, D. Wang, R. Schlögl, B. Klötzer

14:20 O94-1B
The deposition of coke during carbon dioxide reforming of methane over intermetallides
L. Arkatova

14:40 O95-1B
Rhodium-based catalysts supported over FeCrAlloy foams prepared by a novel electrodeposition method.
F. Basile, P. Benito, G. Brenna, P. Del Gallo, G. Fornasari, D. Gary, M. Monti, E. Scavetta, D. Tonelli, A. Vaccari

15:00 O96-1B
Catalytic oxidation over microwave synthesized Ti containing 3-D mesoporous silica
S. Jeong, N. Jiang, S. Park

15:20 O97-1B
Total oxidation of aromatic VOC on V2O5-(MoO3)-(WO3)/TiO2 catalysts prepared by a non-hydrolytic sol-gel method
D. Debecker, R. Delaigle, K. Bouchmella, P. Eloy, E. Gaigneaux, P. Mutin

15:40 O98-1B
An efficient Fe modified TiO2 photocatalyst for the oxidative degradation of recalcitrance water contaminants
C. Castro, A. Centeno, S. Giraldo

26 Parallel session 1A Beta Hall

14:00 O99-1A
TAP study on the total oxidation of propane over a CuO-CeO2/Al2O3 catalyst
V. Balcaen, R. Roelant, H. Poelman, D. Poelman, G. Marin

14:20 O100-1A
About the active phases of KNO3/MgO catalyst in soot combustion.
R. Jiménez, X. García, A. Gordon

14:40 O101-1A
Determination of the degree of oxidation of the working RuOx/Ru catalyst in CO oxidation.
N. Breuer, W. Busser, M. Muhler

15:00 O102-1A
Electrochemical catalysis for propane combustion using nanometric sputter-deposited Pt films
L. Lizzaraga, M. Guth, A. Billiard, P. Vernoux

15:20 O103-1A
Mechanistic and structural factors determining the selectivity of Pt-Rh gauzes in Andrussow process
V. Kondratenko, M. Pohl, G. Weinberg, D. Su

15:40 O104-1A
Modeling of the partial oxidation of methane to syngas over a Pt/PrCeZrOx catalyst supported into single channel of monolith.
E. Gubanova, Y. Schuurman, V. Sadykov, C. Mirodatos, A. van Veen

27 Parallel session 2B Gamma Hall

14:00 O105-2B
Olefins production by catalytic partial oxidation of ethane and propane over Pt/LaMnO3 catalyst
S. Cimino, F. Donsì, G. Russo, D. Sanfilippo

14:20 O106-2B
Kinetic Modeling of Ammonia Oxidation Over Metal Oxide catalysts in an Annular Reactor for a Green Nitric Acid Production
G. Biausque, Y. Schuurmann

14:40 O107-2B
High performance Wet Air Oxidation (WAO) of organic pollutants using a Catalytic membrane reactor
M. Alame, A. Abusaloua, M. Pera-Titus, N. Guilhaume, S. Miachon, K. Fiaty, J. Dalmon

15:00 O108-2B
Catalytic total oxidation of a side-product for an autothermal restoring hydrogen process
P. Kerleau, Y. Swesi, V. Meille, I. Pitault, F. Heurtaux

15:20 O109-2B
Development of a continuous steroid biotransformation process and product extraction within microchannel system
P. Znidarsic-Plazl, I. Plazl

15:40 Laccase-Catalyzed L-DOPA Oxidation on Macro and Microreactor Scale
O110-2B *M. Tišma, B. Zelic, Đ. Vasic-Racki, P. Žnidaršic-Plazl, I. Plazl*

28	Parallel session	3C	Delta Hall

14:00 Combustion of FBC-applied Diesel PM Using Perovskite Catalyst under Diesel Exhaust Conditions
O111-3C *D. Lee, J. Sung, J. Park, S. Lee, S. Oh, K. Lee*

14:20 Catalytic combustion of CH4 and H2 into micro-monoliths
O112-3C *S. Specchia, S. Burelli, L. Vella, V. Specchia*

14:40 Oxidation of dimethyl ether over spinel oxide catalysts: microstructured vs. tubular catalytic reactor
O113-3C *M. Kerzhentsev, O. Sukhova, I. Ismagilov, E. Matus, L. Tsikoza, M. Kuzovkin, S. Khairulin, Z. Ismagilov*

15:00 Effect of Pt/Pd atomic ratio on CH4 combustion activity and palladium redox properties of PdPt/Al2O3 catalysts
O114-3C *P. Castellazzi, G. Groppi, P. Forzatti*

15:20 Methane catalytic combustion over Co, Mn and Fe exchanged zeolite CaA
O115-3C *E. Asedegbega, E. Díaz, A. Vega, S. Ordonez*

15:40 The role of alpha-sites in N2O decomposition over FeZSM-5. Comparison with the N2O oxidation of benzene to phenol
O116-3C *L. Pirutko, V. Chernyavsky, E. Starokon, A. Ivanov, A. Kharitonov, G. Panov*

29	Poster session	B	Main Hall

16:00 Posters from topics 1B (partial), 1C, 1D, 2B, 3A, 3B
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Friday, July 10, 2009

30	Plenary session	Alpha Hall
08:30 IL5-IL	Biocatalytic oxidation: an alternative or a curiosity? *W. Kroutil, I. Lavandera, T. Orbegozo, M. Lara, F. Mutti, S. M Glueck, C. V. Voss, C. C. Gruber, D. Koszelewski, D. Clay*	
09:20 KN18-1C	Simultaneous Synchrotron X-ray Scattering and Optical Spectroscopy: The first fivefold in situ-coupling technique for on-line monitoring of catalyst synthesis *J. Radnik, U. Bentrup, J. Leiterer, F. Emmerling, A. Brueckner*	
09:45 KN19-1A	Surface oxide formation governing catalytic reactivity: CO oxidation on Rh under realistic condition *J. Gustafson, R. Westerström, A. Mikkelsen, X. Torrelles, O. Balmes, J. Andersen, C. Baddeley, E. Lundgren*	

31	Plenary session	Alpha Hall
10:40 KN20-1A	Encapsulation of platinum by iron oxide promotes CO oxidation. *Y. Sun, Z. Qin, M. Lewandowski, S. Shaikhutdinov, H. Freund*	
11:05 KN21-1C	Do synthetic Fe-zeolites mimic biological Fe-Porphyrins: Analogies between nitrosyl complexes formed on Fe centers of ZSM -5 and on Fe(Porph). *M. Rivallan, B. Bromley, L. Kiwi-Minsker*	
11:30 KN22-2A	Oxidation of lower alkanes at ambient conditions in a micro reactor *K. Seshan, C. Trionfetti, A. Agiral, H. Gardeniers, L. Lefferts*	
11:55 KN23-3A	The Dehydration of Glycerol in the Presence of Oxygen over Vanadium Phosphate Oxide Catalysts: the Effect of Catalyst Precursor Pretreatment Temperature *F. Wang, W. Ueda, J. Dubois*	
12:20 -	CLOSING CEREMONY	

6th World Congress on Oxidation Catalysis - Lille - July 5 to 10, 2009

	Sunday, July 5	Monday, July 6	Tuesday, July 7	Wednesday, July 8	Thursday, July 9	Friday, July 10
8:00		Registration				
			Plenary session Alpha Hall	Plenary session Alpha Hall	Plenary session Alpha Hall	Plenary session Alpha Hall
8:30			Invited Lecture 2 **Prof. F. Cavani**	Invited Lecture 3 **Prof. E. Kondratenko**	Invited Lecture 4 **Prof. G. Veser**	Invited Lecture 5 **Prof. W. Kroutil**
9:00		**Opening Ceremony**				
9:20		Invited Lecture 1 **Prof. K. Asakura**	K5 2A	K11 2B	K16 1D	K18 1C
09:45			K6 1B	K12 3A	K17 1B	K19 1A
10:10		Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
		Plenary session Alpha Hall	Plenary session Alpha Hall	Plenary session Alpha Hall	Parallel sessions Alpha / Beta / Gamma / Delta	Plenary session Alpha Hall
10:40		K1 2B	K7 1B	K13 3C	1B O73 / 1A O78 / 1D O83 / 3C O88	K20 1A
11:00						
11:05		K2 1B	K8 3C	K14 1B	O74 / O80 / O84 / O89	K21 1C
11:20						
11:30		K3 2A	K9 1B	K15 3C	O75 / O81 / O85 / O90	K22 3A
11:40						
11:55						
12:00		K4 3B	K10 3B		O76 / O82 / O86 / O91	K23 3A
12:20		Lunch	Lunch	Lunch	O77 / O5 / O87 / O92	Closing Ceremony
				Excursion	Lunch	Lunch
13:40		Parallel sessions	Parallel sessions		Parallel sessions	

		Beta	Alpha	Gamma	Delta	Alpha	Beta	Gamma	Delta		Alpha	Beta	Gamma	Delta	
14:00		1A O79	1B O7	2A O13	3B O19	1B O49	1C O55	3A O61	2A O67		1B O93	1A O99	2B O105	3C O111	
14:20		O1	O8	O14	O20	O50	O56	O62	O68		O94	O100	O106	O112	
14:40		O2	O9	O15	O21	O51	O57	O63	O69		O95	O101	O107	O113	
15:00	Registration desk	O3	O10	O16	O22	O52	O58	O64	O70		O96	O102	O108	O114	
15:20	"Tri Postal"	O4	O11	O17	O23	O53	O59	O65	O71		O97	O103	O109	O115	
15:40		O6	O12	O18	O24	O54	O60	O66	O72		O98	O104	O110	O116	
16:00		Coffee break				Coffea break & Poster session A					Coffea break & Poster session B				
		Parallel sessions													
		Gamma	Alpha	Beta	Delta										
16:30		1C O25	1B O31	1B O37	3C O43										
16:50		O26	O32	O38	O44										
17:10		O27	O33	O39	O45										
17:30		O28	O34	O40	O46										
17:50		O29	O35	O41	O47										
18:10		O30	O36	O42	O48										
18:30		Bus transfer to Palais des Beaux Arts													
19:00	Informal reception Tri Postal	Official Reception Palais des Beaux-Arts													
19:30											Congress Dinner Chambre de Commerce et d'Industrie Grand Lille				

1A-60	Theoretical analysis of stabilization and activation of oxygen in alkali earth cation exchangeable zeolites *A. Larin, G. Zhidomirov, D. Trubnikov, D. Vercauteren*
1A-107	The use of N-hydroxyphthalimide for the mild and selective oxidation of cellulose fibers. *S. Coseri, G. Nistor, V. Harabagiu, B. Simionescu*
1A-123	Activity of substituted hexaaluminates Catalysts in carbon dioxide reforming of methane *K. Ikkour, D. Sellam, S. Tezkratt, s. Menad, O. Cherifi*
1A-149	Oxidation Catalysts for CO Detection Using Thermocatalytic and Metal Oxide Semiconductor Gas Sensors *A. Vasiliev, N. Samotaev*
1A-189	Heterogeneous catalytic epoxidation of propylene to propylene oxide over TS-1 and gold catalysts *S. Shin, D. Chadwick*
1A-194	Catalytic decomposition of acetylene over CoFe2O4/ NiFe2O4 core shell *M. Bahgat, M. Khedr, S. Abdelmoaty*
1A-213	Assessment of synergetic and precursor effects in propane total oxidation over Cu- and Ce-based catalysts. *P. Heynderickx, J. Thybaut, H. Poelman, D. Poelman, G. Marin*
1A-216	Effect of yttria stabilized zircinia fractal dimension on catalytic performance of CO oxidation *P. Strizhak, A. Tripolskyi, T. Gurnyk, E. Moroz, F. Tuzikov, V. Kolko*
1A-258	Spin catalysis in the process of H2S oxidation with quinones and quinoid groups on the surface of active carbon: a quantum chemical insight. *V. Khavryuchenko, O. Khavryuchenko, V. Lisnyak*
1A-271	Acidic-Basic and Redox Centers of Biomimetic Catalysts PPFe3+OH/AlSiMg and perFTPhFe3+OH/Al2O3 *I. Nagieva, L. Gasanova, T. Nagiev*
1A-306	STM and XPS Study of Formation and Thermal Stability of Platinum Model Catalysts Prepared by 'Wet Chemistry' Methods on Alumina Thin Films *A. Nartova, I. Beck, A. Bukhtiyarov, R. Kvon, V. Bukhtiyarov*
1A-324	Activity of the modified zeolite catalysts in the oxidative conversion of n-propyl alcohol *D. Tagiyev, S. Fatullayeva*
1A-415	Reaction mechanisms and chemistry of homogeneous and heterogeneous catalytic wet air oxidation (CWAO) of phenol *F. Arena, G. Trunfio, J. Negro, C. Saja, F. Bevacqua, L. Spadaro*
1A-426	Supported vanadium oxide catalysts in selective oxidation of formaldehyde: Effect of the support *G. Popova, E. Danilevich, V. Kaichev, L. Plyasova, T. Andrushkevich, V. Bukhtiyarov*
1A-429	Mechanism of the selective CO oxidation over the Ag-Co and Co-Ce mixed oxide catalysts *F. Balikçi Derekaya, Ç. Güldür*
1A-439	Electrocatalytic oxidation of thiosulfate on pressian blue film palladized aluminum electrode as a novel substrate *A. Azadbakht, H. Razmi , A. Abbasi*
1A-450	Direct propene epoxidation with O2: Homogeneous gas phase reactions initiated by heterogeneous MoO3/SiO2 catalyst *D. Debecker, B. Farin, E. Gaigneaux*
1A-466	Oxygen Species behaviour and the mechanism for n-butane oxidation over vanadium phosphate catalysts *Y. Taufiq-Yap, W. Tang*
1A-505	Studies of carbonaceous matter oxidation over alumina supported Mo and Pt-Mo catalysts *Z. Sarbak, K. Surma*
1A-506	Manganese minerals for H2O2 decomposition and phenol oxidation *Z. Sarbak*
1A-511	Crucial Role of Vanadium in La2NixV(1-x)O(4+d) Catalyst for Selective Oxidation of Propane *S. Crapanzano, I. Babich, L. Lefferts*
1A-553	Kinetic modeling and TAP study of the O2 H2 reaction over Pt/Al2O3 catalyst *A. Kouakou, Y. Reneme, F. Dhainaut, S. Pietrzyk, P. Granger*

1A-554	Pt-Bi/C catalyzed oxidation of glycerol: Reaction mechanism and kinetic modelling *N. Wörz, A. Brandner, P. Claus*
1A-574	Ammonia Oxidation on Pt/Al2O3 coated monolith: Experiments vs. Modelling *A. Scheuer, A. Schuler, A. Drochner, H. Vogel, M. Votsmeier, J. Gieshoff*
1A-578	One-Step Synthesis of Phenol from Benzene over Cu/Ti/HZSM-5 Catalysts *Y. Ichihashi, Y. Kamizaki, N. Terai, K. Taniya, S. Tsuruya, S. Nishiyama*
1A-580	The Oxidative Conversion of Methanol and Ethanol over ZSM-5 *L. Akhalbedashvili, A. Mskhiladze, G. Todradze*
1A-599	Determination of kinetic parameters for complete methane oxidation over supported palladium catalysts by means of the SSITKA method *M. Rotko, A. Machocki, B. Stasinska*
1A-650	Oxygen mobility in La2-xCexCuO4 phase estimated by TPR and CO oxidation *E. Golubina, R. Grizhenko, L. Voronova, V. Lunin*
1A-717	Microkinetic Analysis of Methane Activation Processes on Rh for Short-Contact-Time Hydrogen Production *M. Maestri, A. Beretta, P. Forzatti, G. Groppi, E. Tronconi, D. Vlachos*
1A-729	Detailed Description of Heterogeneous Reaction Kinetics over Oxide Surfaces: Ignition and Oxidation of Methane and Hydrogen *M. Sinev, V. Arutyunov, V. Lomonosov, A. Ivanova, A. Karnaukh, S. Kostenko*
1A-739	A computational study of propane activation over the ab planes of the Mo-V-Te-Nb-O M1 phase catalyst *A. Govindasamy, Y. Xu, V. Guliants*
1A-751	Influence of the La1-xFeO3 perovskites stoichiometry on its structure and catalytic activity in total CH4 oxidation *J. Faye, A. Baylet, M. Trentesaux, S. Royer, F. Dumeignil, P. Marécot, S. Valange, J. Tatibouët*
1A-764	Fundamentals of Partial Oxidation of Hydrocarbons in Catalytic Membrane Reactors *E. Kondratenko, H. Wang, V. Kondratenko, J. Caro*
1A-816	Catalytic combustion of methane over M/Ce0.75Zr0.25O2 catalysts with M=Fe, Co, Ni, and Rh *S. Thaicharoensutcharittham, V. Meeyoo, T. Rirksomboon, P. Rangsunvigit, B. Kitiyanan*
1A-830	Selective oxidation catalyst : Determination of the active site and reaction mechanism. *K. Hamaroui, S. Cristol, J. Paul*
1A-844	The CO oxidation over oxygenated ruthenium revisited *D. Rosenthal, F. Girgsdies, O. Timpe, G. Weinberg, R. Schlögl*
1A-853	The role of acidity in the decomposition of chlorinated organics over V2O5/TiO2 based catalysts. *S. Albonetti, R. Bonelli, J. Epoupa Mengou, S. Scirè, F. Trifirò*
1A-869	Fe-ZSM-5 activity in N2O decomposition: active sites formation and deactivation revisiting *B. Bromley, M. Rivallan, L. Kiwi-Minsker*
1A-872	Gold-catalyzed selective oxidation of alkenes in the liquid phase with molecular oxygen *K. Guillois*, P. Lignier, B. Istria, J. Ringuet, F. Chieux, V. Caps*
1A-883	Catalysts based on Ni, Pd and Pt on the Partial Oxidation of Methane - Mechanism Investigation *L. Tosta Simplício, S. Teixeira Brandão, R. Batista da Silva Jr.*
1A-887	Structure and reactivite of Ni/Mg-Al catalysts in the partial oxidation of methane *D. Kaddeche, R. Chebout, A. Djaidja, A. Barama*
1A-897	Analysis of Vanadia Catalysts on SBA-15 by X-ray Absorption Spectroscopy: theoretical DFT and experimental studies *M. Cavalleri, K. Hermann, A. Knop-Gericke, M. Hävecker, R. Herbert, C. Hess, A. Oestereich, J. Döbler, R. Schlögl*
1A-922	Mechanism of photooxidation of alcohol over Nb2O5 *T. Shishido, T. Miyatake, K. Teramura, T. Tanaka*
1A-939	Total oxidation of p-xylene over wire-supported Pd: mechanism and catalyst deactivation *K. Kumbilieva, N. Gaidai, A. Dryahlov, N. Nekrasov, L. Petrov, A. Lapidus*
1A-994	Selective oxidation of propene to acrolein in the low temperature region using an a-Bi2Mo3O12 catalyst *L. Callanan, J. Nel, C. Schwartz*
1A-1002	Selective methane oxidation to synthesis gas over low loaded Rh/Al2O3 catalysts *M. Najbar, J. Dutkiewicz, N. Homs, P. Kornelak, P. Ramirez de la Piscina, V. Choque*

1A-1016	Oxidation in Three-Liquid-Phase Microemulsion Systems Using "Balanced Catalytic Surfactants" *J.M. Aubry, V. Nardello-Rataj, L. Caron, C. Borde, M. Fressancourt*
1A-1023	Temperature dependence of the N2O reaction in Fe-ZSM-5 zeolite: a combined DFT and experimental study *H. Guesmi, D. Berthomieu, B. Coq, L. Kiwi-Minsker*
1A-1029	MoOx-based catalysts massique and supported on □-alumina, for the oxidative dehydrogenation (ODH) of ethane to ethylene - Influence of vanadium and phosphorus on physicochemical and catalytic properties. *N. Haddad, E. Bordes-Richard, A.Barama*

17 Poster session A Topic: 1B Main Hall

1B-53	Methane oxidation over mesoporous Pd/Al2O3-ZrO2 catalysts: Effect of the preparation parameters. *C. Amairia, S. Fessi, A. Ghorbel*
1B-92	Vapor-phase oxidation of aliphatic alcohols over modified zeolite catalysts *A. Aliyev, T. Shakhtakhtinsky, A. Ghorbanpour, Z. Alikhanova, K. Guseynov, R. Agayeva, A. Sarijanov, S. Medzhidova, K. Matiyev*
1B-192	Oxidation of alkanes and olefins with H2O2 in acetonitrile catalyzed by mesoporous titanium-silicate Ti-MMM-2 *A. Bonon, D. Mandelli, O. Kholdeeva, M. Barmatova , Y. Kozlov , G. Shulpin*
1B-247	Mesoporous supported Sb-V-O catalysts for the ammoxidation of Propane into Acrylonitrile *E. Rojas, M. Guerrero-Perez, M. Bañares*
1B-279	Heterometallic alkoxide complexes of rhenium as precursors of solid nanoporous catalysts *O. Nikonova, M. Sundberg, G. Seisenbaeva*
1B-287	Microwave-Assisted Gel-Combustion Synthesis of Nanocrystalline Catalytic Metal Films *U. Zavyalova, R. Horn, O. Korup, R. Schlögl*
1B-299	Novel polymer-based nanocatalysts for phenol CWAO *V. Matveeva, E. Sulman, V. Doluda, N. Lakina, A. Bykov, L. Bronstain, P. Valetsky*
1B-323	Epoxidation of cyclohexene catalysed by methylated Ti-MCM-41 nanoparticles *K. Lin, P. Pescarmona, P. Jacobs*
1B-361	Partial methane oxidation over Co-ZSM-5: the influence of preparation method on selectivity and activity *N. Beznis, B. Weckhuysen, H. Bitter*
1B-442	Toluene oxidation on chromium and copper modified SiO2 and SBA-15 catalysts *M. Popova, A. Szegedi, T. Tsoncheva, L. Ivanova*
1B-534	Self-adjusting preparation of nanosized transition metal oxide catalysts on H-ZSM-5 and Ga/H-ZSM-5 matrix and formation of active centres in reduction of N2O with CH4 *L. Borkó, N. Vlasenko, Z. Koppány, Z. Schay, P. Strizhak, L. Guczi*
1B-545	Fabrication of Hydrophobic Mesoporous Silica material Using a Fluorine Containing Silylation Agent and Its Application as an Advantageous Host Material for TiO2 Photocatalyst *Y. Kuwahara, K. Maki, T. Kamegawa, K. Mori, H. Yamashita*
1B-567	Hierarchically mesoporous Ce-doped titanium oxides supported nanosized gold particles for water-gas shift reaction, low-temperature CO oxidation and photocatalysis *Z. Yuan, V. Idakiev, G. Shao, J. Cao, T. Tabakova, K. Tenchev, T. Ren*
1B-668	Chromium Terephthalate Metal-Organic Framework MIL-101 for Tetralin Oxidation in Liquid phase *S. Bhattacharjee, J. Kim, K. Jeong*
1B-684	Vanadium supported on Titanium pillared clay catalysts: Effect of the sulfation of the support in the epoxidation of allylic alcohol (E)-2-Hexen-1-ol *J. Arfaoui, L. Khalfallah Boudali, A. Ghorbel*
1B-725	Preparation of functionalized Clays as supports of polyoxomolybdates and their application in diphenylsulfide selective oxidation *K. Ben Tayeb, M. Muñoz, C. Cabello, G. Romanelli, I. Botto, P. Vazquez, M. Capron, C. Lamonier, E. Payen*
1B-731	Synthesis of pillared clays from Al13-Fe and Al13-Fe-Ce polymers in solid state using microwaves and their catalytic activity in the phenol oxidation reaction *R. Molina, S. Moreno, A. Olaya*
1B-735	Catalytic wet peroxide oxidation of phenol over Al-Fe-Ce pillared clays: Effect of ultrasound *S. Moreno, R. Molina, A. Pérez*
1B-776	Use of a Remote Plasma Enhanced Chemical Vapor Deposition for the preparation of catalytic coatings on metallic substrates for structured catalytic reactors. *A. Essakhi, A. Löfberg, P. Supiot, B. Mutel, S. Paul, V. Le Courtois, E. Bordes-Richard*
1B-800	Preparation of Perovskite-type Oxide with High Surface Area and its Cordierite Monolith Catalyst *M. Suh, S. Ihm*

1B-907	Preparation of structured oxidation catalysts based on Ni-Co/mesoporous silica washcoated over metallic and ceramic structured supports. *E. Pietri, M. Montes, O. González*
1B-911	Discoloration of acid black 1 and acid yellow 36 by Cu-doped mesoporous TiO2 monoliths *S. López-Ayala, M. Rincón*
1B-924	Oxidation of alcohols over the chromium and chromium-aluminum pillared clay in presence of TBHP *I. Benatallah, S. Sabour, L. Tafet, O. Bekhti-Mohammedi*
1B-955	Pt exchanged high surface area zeolite for low temperature CO oxidation in presence of SO2 and COS *P. Chankapure, P. Doggali, D. Valechha, S. Lokhande, S. Rayalu, N. Labhsetwar*
1B-962	Evaluation of hydrothermal and mechanical stability of SBA-16 micrometric silica particles for its application as catalytic support *S. Urrego, M. Mesa, L. Sierra*
1B-970	Titania doping of mesostructured silicates as efficient supports for gold CO oxidation catalysts *Y. Wang, V. Caps, A. Tuel*
1B-972	Ti-MCM-41. Effect of titanium loading on the catalytic activity in different oxidation processes. *J. Melero, J. Iglesias, M. Sanchez-Sanchez, K. Ouchani, N. Espinosa*

17 Poster session A Topic: 2A Main Hall

2A-34	Characterization of peroxidase from the Egyptian cultivar Citrus jambhiri cv. Adalia *S. Mohamed, M. El-Badry, E. Drees, A. Fahmy*
2A-229	Highlight on iron oxides properties: a new generation of hydrocarbon combustion catalysts *G. Laugel, J. Arichi, B. Louis, M. Molière, A. Kiennemann, F. Garin*
2A-237	Catalytic Combustion of Fiber Mat Catalytic Burners *K. Song, H. Kim, N. Jung*
2A-261	Catalytically Selective Oxidation of Alcohols over Crystalline Mo–V–O Complex Oxide *F. Wang, W. Ueda*
2A-291	N-butanol dehydrogenation to n-butyraldehyde by selective catalytic oxidation. *M. Güemez, A. Iriondo, J. Requies, J. Cambra, P. Arias, V. Barrio, J. Fierro*
2A-345	[NaP5W30 O110]14- As Efficient and Eco-friendly Catalyst for Synthesis of Acylals *F. Bamoharram, M. Heravi, M. Roshani, T. Mirghafari*
2A-346	Stereospecific Hydroxylation of Alkane Catalysed by Vanadium Carboxylate using O2 *I. Yamanaka, H. Kobayashi*
2A-420	Synergistic effect between gold and vanadia in the total oxidation of chlorobenzene *R. Delaigle, A. Coget, P. Eloy, E. Gaigneaux*
2A-532	Laccase-mediated oxidation of amino-substituted benzoic acids *J. Polak, A. Jarosz-Wilkolazka, R. Pogni, R. Basosi*
2A-568	The liquid-phase oxidation of cyclohexanone with oxygen, catalysed by Keggin-type polyoxometalates. A cleaner alternative to the current process for adipic acid synthesis. *K. Raabova, N. Ballarini, F. Cavani, L. Ferroni, A. Frattini, P. Accorinti, S. Alini, P. Babini*
2A-575	New rutile-type Ga/V/Sb mixed oxides, catalysts for propane ammoxidation to acrylonitrile *N. Ballarini, A. Castelli, F. Cavani, N. Di Matteo, F. Trifirò*
2A-610	Degradation of methylene blue, p-nitrophenol and Escherichia coli with commercial and sol-gel TiO2 under UV-A and visible light – A comparative study. *L. Tasseroul, C. Páez, S. Nonet, B. Heinrichs*
2A-624	Catalytic oxidation of hydrocarbons on mesoporous anode materials of solid oxide fuel cells *V. Parvulescu, S. Somacescu, N. Cioatera, P. Osiceanu, S. Todorova, G. Kadinov, B. Su*
2A-660	Studies on Oxygen generation from water and oxygenation of hypoxic blood by Photocatalytic process *S. Aryasomayajulu, P. Thangaraj, K. Chandrasekhar*
2A-665	Vanadium-Titanium oxide catalysts in gas phase oxidation of 5-ethyl-2-methylpyridine *Y. Alkayeva, K. Cyzeski, G. Zenkovets, A. Shutilov*
2A-666	Oxidation of alcohols with molecular oxygen or air catalyzed by FeCl3 and other iron compounds under visible light irradiation *D. Mandelli, L. Shulpina, M. Bizarra, G. Shulpin*

2A-720	Catalytic properties of Al-HMS-n materials in the tertiary butylation of phenol *K. Bachari, N. Tahir, A. Saadi, D. Halliche, O. Cherifi*
2A-768	Partial oxidation of methane over bi-functional Rh/LaMnO3 catalysts at low noble metal content. *P. Barbato, S. Cimino, G. Landi, L. Lisi, G. Russo*
2A-773	Palladium based membrane reactor for direct hydroxylation of aromatic compounds – Co-catalytic effect by active metals *K. Sato, S. Hamakawa, T. Inoue, M. Nishioka, M. Natsui, F. Mizukami*
2A-791	Oxidative dehydrogenation of alcohols to carbonyl compounds over V-Mg-O catalysts *I. Belomestnykh, G. Isaguliants*
2A-834	The use of H2O2 over titanium-grafted mesostructured silica catalysts: a step further towards sustainable epoxidation *M. Guidotti, C. Pirovano, N. Ravasio, B. Lazaro, J. Fraile, J. Mayoral, A. Galarneau*
2A-852	Synergistic Effects of Nanocluster Catalysts in the Synthesis of Niacin (Vitamin B3) *R. Raja, J. Thomas, J. Blaine, E. Gianotti, R. Adams*
2A-862	Cobalt, Cupper and Vanadium Complexes Covalently Linked with Silica as Supported Catalysts for Oxidation of Cyclohexane by Dioxygen *G. Mishra, A. Kumar, P. Tavares*
2A-931	Performances of MoOx/TiO2/SiO2 catalysts in the gas phase selective photocatalytic oxidation of cyclohexane *P. Ciambelli, D. Sannino, V. Vaiano, G. Carotenuto, M. Di Serio, E. Santacesaria*
2A-940	Advanced Characterization in Oxidative Desulfurization *A. Bourane, H. Muller, E. Shafi, A. Hajji, O. Koseoglu*
2A-988	Preparation of WO3 nanostructures and effect of structures on photo catalytic application *M. Alaei, A. Mahjoub, A. Rashidi*
2A-1007	Synthetic and thermodynamic features of styrene oxidation with H2O2 catalyzed by novel imidazolium-containing manganese porphyrins *R. DePaula, M. Simoes, M. Neves, J. Cavaleiro*

17 Poster session A Topic: 3C Main Hall

3C-44	Photocatalytic oxidation of toluene on UV-irradiated TiO2 in presence of activated carbon *J. Matos, A. García, J. Chovelon, T. Cordero, C. Ferronato*
3C-47	Glutamic acid modified Fenton system for degradation of BTEX contamination at different pH values *F. Yehia, N. Kandile, A. Badawi, A. Mady*
3C-96	Co-Mn–La perovskites modified with Ag for the catalytic combustion of n-hexane *C. Campos, M. Jiliberto, E. Delgado, O. Peña, G. Pecchi*
3C-129	Selective oxidation of methanol to dimethoxymethane over V2O5-TiO2/SO42-catalysts prepared by various methods *H. Zhao, S. Bennici, J. Shen, A. Auroux*
3C-158	Selective oxidation of methanol over Alkaline earth metal and lanthanum oxide promoted gold catalysts *B. Hereijgers, B. Weckhuysen*
3C-201	Photocatalytic Degradation of the Aqueous Solution of Acid Orange 7 Dye on Quartz Supported, Gd-modified TiO2 in the Fluidized Bed Reactor *T. Lindemann, G. Kryukova, M. Wilde, K. Richter*
3C-226	Catalytic wet air oxidation and sequential adsorption-catalytic wet air oxidation of paracetamol on activated carbons. *I. Quesada-Peñate, U. Jáuregui-Haza, C. Julcour-Lebigue, A. Wilhelm, H. Delmas*
3C-251	Methane Partial Oxidation Mechanism over Pt-Ru Catalysts *R. Lanza, S. Järås, P. Canu*
3C-270	Decomposition of organic compounds on TiO2 modified with ferrous oxalate via photocatalysis and photo-Fenton *B. Tryba, E. Kusiak, M. Piszcz, P. Brożek, A. Pattek-Janczyk, A. W. Morawski*
3C-286	Production of Hydrogen via Partial Oxidation of Methanol over Cu-ZnO/Al2O3/Cordierite Monolithic Catalysts *A. Kapran*
3C-307	Effect of the composition of stabilized ZrO2 based composites on their catalytic properties in oxidative conversion of methane *S. Orlyk, T. Shashkova, V. Chedryk*
3C-325	Catalytic oxidation of Volatile Organic Compounds (VOCs) (isopropanol/o-xylene) on zeolites and Pt/zeolites *R. Beauchet, J. Mijoin, P. Magnoux*

3C-337	Methanol oxidation over CuO-ZnO-Al2O3 and Pd catalysts *G. Arzamendi, J. Echave, P. Navarro, M. Montes, M. Domínguez, M. Centeno, J. Odriozola, L. Gandía*
3C-359	Zeolites based catalyst for Polycyclic Aromatic Hydrocarbon catalytic destruction: influences of SOx and NH3 *S. Marie-rose, J. Mijoin, T. Belin, P. Magnoux, M. Taralunga, X. Chaucherie, E. Fiani*
3C-379	Cu - Cr/γ-alumina catalysts for combustion of the exhaust gases from the selective oxidation of methanol. *K. Ivanov, D. Dimitrov*
3C-382	Catalytic oxidation of ammonium ions with nitrite ions in water over Pt/TiO2 *Y. Kamiya, C. Wang, Y. Sakamoto*
3C-414	Influences of metallic and support phases during Catalytic Wet Air Oxidation of phenol over ceria and doped-ceria supported platinum and ruthenium catalysts. *S. Keav, S. Nousir, J. Barbier, A. Martin, D. Duprez*
3C-461	Catalytic oxidation of simulated PSA off gas over LaxSr1-xMnAl11O19 (x=0, 0.2, 0.4, 0.6, 0.8, 1) hexaaluminate catalysts *S. Kim, J. Lee , H. Eom, D. Lee, M. Kim, K. Lee*
3C-463	Rh-perovskite catalysts for tar conversion in biomass gasification *P. Ammendola, R. Chirone, L. Lisi, B. Piriou, G. Ruoppolo*
3C-514	Calcium deficient and stoichiometric hydroxyapatites promoted by Cobalt, new catalysts for the removal of oxygenated Volatile Organic Compounds *B. Aellach, A. Ezzamarty, J. Leglise, J. Lamonier*
3C-523	Selective oxidation of H2S to sulphur over Vanadia Supported Catalysts *M. Soriano, P. Concepción, J. Jiménez-Jiménez, E. Rodríguez-Castellón, A. Jiménez-López, J. López Nieto*
3C-562	Leaching of platinum and ruthenium from noble metal supported catalysts in the Catalytic Wet Air Oxidation of N,N-dimethylformamide. *N. Grosjean, C. Descorme, M. Besson*
3C-606	Why Heterogeneous Photocatalysis is alternatively able to work both in selective mild oxidation and in cracking total oxidation in full agreement with Green Chemistry principles. *J. Herrmann*
3C-646	Laser induced Photo-catalytic degradation of organic contaminants from water using semiconductor metal oxides *M. Gondal, K. Hayat, M. Sayeed*
3C-675	VOC Deep Oxidation over Co3O4/10 mole% gadolinia-doped ceria : Correlation between redox properties and catalytic activity *L. Lu, C. Pirovano, R. Vannier, J. Giraudon, J. Lamonier*
3C-685	Green synthesis of acrylonitrile by microwave-promoted ammoxidation of glycerol *V. Calvino-Casilda, O. Guerrero-Perez, M. Bañares*
3C-686	Direct hydroxylation of benzene to phenol by nitrous oxide on aluminum-iron binary phosphate *F. Bautista, R. Navarro, M. Montoro, D. Luna, J. Marinas*
3C-691	Unexpected efficiency of FeMo catalyst in direct oxidation of methanol to 1,1-dimethoxymethane: an old catalyst for a new one pot reaction *J. Gornay, G. Tesquet, B. De la Goublaye de Ménorval, M. Capron, J. Dubois, F. Dumeignil*
3C-694	Direct conversion of ethanol to 1,1-diethoxyethane over bifunctional catalysts *J. Gornay, B. De la Goublaye de Ménorval, X. Sécordel, S. Cristol, M. Capron, J. Dubois, F. Dumeignil*
3C-700	Ammoxidation of ethylene to acetonitrile over chromium exchanged zeolite catalysts: Effect of the preparation method *F. Ayari, M. Mhamdi, D. Debecker, G. Delahay, E. Gaigneaux, A. Ghorbel*
3C-746	Photooxidation of Cyclohexane over Pt loading on WO3 and TiO2 Mixing Catalysts under Visible Light Irradiation *S. Saijo, M. Taniguchi, K. Taniya, Y. Ichihashi, S. Tsuruya, S. Nishiyama*
3C-783	Thermal Stability of Ce/Zr Mixed Oxides for the Gas-Phase Oxidation of Chlorinated VOCs *B. de Rivas, C. Sampedro, R. López-Fonseca, M. Gutiérrez-Ortiz, J. Gutiérrez-Ortiz*
3C-784	Development of advanced catalysts for methane oxidation in the catalytic combustion chamber of gas turbine *Z. Ismagilov, N. Shikina, S. Yashnik, A. Zagoruiko, M. Kerzhentsev, V. Ushakov, S. Khairulin, V. Sazonov, V. Parmon, V. Zakharov, B. Braynin, O. Favorski*
3C-806	Reduction of CH4 and CO2 emmissions in the atmosphere over Ni/ MgO and Ni/MgO-ZrO2 catalysts oxides. *N. Yahi, S. Menad, K. Ikkour, S. Tezkratt, O. Cherifi*
3C-811	Partial Oxidation of Ethanol over Ceria-Zirconia Based Catalysts *V. Meeyoo, T. Rirksomboon, S. Pengpanich*
3C-825	Hydrogen Production via Partial Oxidation of Isooctane and Ethanol over Ni/Ce0.75Zr0.25O2 Catalyst *S. Pengpanish, T. Rirksomboon, V. Meeyoo*

3C-842	A comparative study of the catalytic behaviour of MnO2, Mn2O3 and Mn3O4 in the catalytic wet oxidation of phenol *W. Ouahbi, J. Delgado, R. El mail, J. Rodríguez-Izquierdo, M. Cauqui*
3C-843	The effect of Rh load on Rh/aAl2O3 catalyst for the catalytic partial oxidation of CH4 *A. Donazzi, A. Beretta, G. Groppi, P. Forzatti, V. Dal Santo, L. Sordelli, V. De Grandi, R. Psaro, M. Occhiuzzi, D. Gazzoli*
3C-845	Effects of fuel to oxidant ratio on activity of Ce0.75Zr0.25O2 catalyst promoted by transition metals for CO and C3H8 oxidation *M. Sadr Nourmohamadi, A. Khodadadi, Y. Mortazavi*
3C-854	Catalytic oxidation of chlorobenzene over perovskite supported platinum catalysts. *A. Elhachimi, J. Giraudon, J. Lamonier*
3C-881	Oxidation of CO in the presence of H2 over Catalysts containing nanocrystalline CeO2 *A. Turshin, M. Yakimova, Y. Makarfi, A. Lermontov, O. Polajaeva, V. Ivanov, V. Tretiyakov*
3C-913	Total oxidation of toluene in presence of NOx on alkali promoted cobalt zirconia catalysts *A. Aissat, S. Siffert, D. Courcot, A. Aboukaïs*
3C-976	H2 production by Steam Reforming of Ethanol over novel foam-supported catalysts based on Rh/MgAl2O4/Al2O3 *F. Basile, I. Bersani, G. Brenna, P. Del Gallo, R. Faure, G. Fornasari, D. Gary, F. Rossignol, T. Chartier, A. Vaccari*
3C-982	Promoting effect of Ti or Zr nanoparticles in Rh/SiO2 supported catalyst for the partial oxidation of methane *A. Karelovic, X. García, P. Ruiz, A. Gordon*
3C-990	LaMeO3 (Me=Fe, Cu, Mn, Ni) perovskites as a catalysts in catalytic wet peroxide oxidation of phenolic solutions *O. Pestunova, L. Isupova, V. Parmon*
3C-1000	Photocatalytic degradation of formaldehyde by cementitious materials loaded with titanium dioxide *A. Hadj-Aïssa, E. Puzenat, A. Plassais, J. Herrmann, C. Haehnel, C. Guillard*
3C-1003	Inhibiting effect of the reaction products in the partial oxidation of methanol *S. González Carrazán, R. Wojcieszak, R. Mateos Blanco, P. Eloy, C. Mateos Pedrero, P. Ruiz*
3C-1018	Total oxidation of chlorinated and non chlorinated aromatics over manganese–cupper mixed oxide supported on titania *B.H. Vu, J. Belkouch, A. Ould-Dris, B. Taouk*
3C-1021	"Ship-in-a-bottle" synthesis of metalloporphyrins in MCM-41 for use as photosensitizers *M. Silva, M.E. Azenha, M.M. Pereira, H.D. Burrows, M. Sarakha*
3C-1026	17α Ethynylestradiol Degradation by TiO2 Photocatalysis in surface water *D. Koumeir, C. Guillard, E. Puzenat, S. Guittonneau*
3C-1044	An insight into the H2 production by partial oxidation of ethanol over Pt/CeO2-ZrO2: catalyst role, deactivation and recovery *R. Olivera Fraile, V. Cortés Corberán*

1B-76	Molecular Precursor as an Alternative Route to Au/TiO2 Composites *M. Rohe, K. Merz*
1B-89	Effect of divalent metal component (MeII) on the catalytic performance of MeIIFe2O4 catalysts in the oxidative dehydrogenation of n-butene to 1,3-butadiene. *H. Lee, J. Jung, H. Kim, Y. Chung, T. Kim, S. Lee, S. Oh, Y. Kim, I. Song*
1B-120	Catalytic Aziridine Synthesis from Styrenes and Ammonia *C. Varszegi, M. Ernst, B. Sels, E. Schwab, D. De Vos*
1B-140	Effect of calcination temperatures of Ni/Al systems on catalytic performances for methane dry reforming reaction *F. Touahra, Z. Abdelssadek , K. Bachari, O. Cherifi , A. Saadi, D. Halliche*
1B-181	Ironporphyrine Catalysts Immobilized for «green» Oxidation of Lower Paraffin and Unsaturated Hydrocarbons *U. Nasirova, I. Nagieva, C. Mustafaeva, L. Gasanova, T. Nagiev*
1B-200	Towards Better Design of the (MoVW) Mixed Oxide Catalysts for the Reaction of Acrolein Oxidation *G. Kryukova, G. Zenkovets, K. Richter*
1B-250	Propane and n-butane oxidative dehydrogenation over VOx HMS catalysts. *P. Cicmanec, R. Bulanek, M. Setnicka, L. Capek*
1B-277	One-step synthesis of novel nanostructured SnO2 catalyst for CO oxidation *Q. Zhao, M. Zhang, L. Ke*
1B-298	The specific features of defect structure and reactivity of oxygen in lanthanum manganite based nanocomposites. *T. Kuznetsova, V. Matyshak, V. Sadykov, N. Bulgakov*
1B-328	Novel, Heterogeneous, Single-site Biomimetic Amino Acid Complexes for the Oxidation of Hydrocarbons *J. Dzierzak, R. Raja*
1B-330	Pt/C and Au-Pt/C catalysts prepared by controlled adsorption of metallic species on carbon in aqueous phase *N. Meyer, A. Deffernez, S. Hermans, M. Devillers*
1B-331	Deactivation of photocatalytic activity of TiO2 *D. Dolat, J. Choina, B. Tryba, A. Morawski*
1B-343	Performance of Mo-V-Te-Nb-O catalysts promoted with Pd oxide in the partial oxidation of propane to acrylic acid *S. Kum, B. Jo, S. Moon*
1B-357	Hydrothermal synthesis of Mo- doped SnO2 nanoparticles for selective epoxidation of cycloocten *A. Anaraki Firooz, A. Mahjoub, A. Khodadadi, M. Afsharpour*
1B-362	Methanol to formaldehyde oxidation over sodium modified Mo-based catalysts *K. Ivanov, S. Krustev, I. Mitov*
1B-372	Solvent-free oxidation of benzyl alcohol using Au-Pd catalysts prepared by sol immobilisation *N. Dimitratos, J. Lopez-Sanchez, D. Morgan, A. Carley, R. Tiruvalam, C. Kiely, D. Bethell, G. Hutchings*
1B-374	Oxidation of glycerol using gold palladium alloy supported nanocrystals *J. Lopez-Sanchez, N. Dimitratos, J. Anthonykutty, A. Carley, R. Tiruvalam, A. Herzing, C. Kiely, D. Knight, G. Hutchings*
1B-409	The influence of primary, secondary and tertiary alkohols on the preparation process of carbon modified TiO2 photocatalysts *E. Kusiak, B. Tryba, M. Janus, A. Morawski*
1B-432	Selective Oxidative Dehydrogenation of Propane over γ-Alumina Supported Vanadium-Chromium Oxide Catalysts *M. Al-Kinany, H. Al-Megren, S. Aldrees, S. Al-Shihri, A. Al-Hamdan, B. Al-Hudaib, F. Al-Shehry*
1B-440	Enlarging the surface area of Bismuth Molybdate containing materials as catalyst of propylene selective oxidation. *D. Truong Duc, H. Nguyen Ha, R. Fehrmann, A. Riisager, M.T. Le*
1B-467	A novel Ru catalyst for the Efficient Catalyst for Oxidation of Alcohols by Molecular Oxygen. *M. Kantam, S. Reddy, B. Sreedhar, C. Venkat Reddy, F. Figueras*
1B-468	Mechanochemistry in preparation of oxide catalysts *V. Zazhigalov, I. Bacherikova, S. Khalameida, N. Litvin, K. Wieczorek-Ciurowa, L. Depero, A. Kowal*

1B-485	Unsupported and silica supported CuFe2(P2O7)2 catalysts for selective oxidation of methane to formaldehyde. *M. Stolcova, M. Hronec*
1B-493	Graphite as a superior support for Pd catalyst for the direct synthesis of hydrogen peroxide from H2 and O2 *B. Hu, Q. Zhang, Y. Wang*
1B-503	Silica based composites in catalysis of methane oxidative coupling: influence of phase composition *G. Nipan, A. Dedov, A. Loktev, V. Ketsko, T. Koltsova, A. Tyunyaev, K. Parkhomenko, I. Moiseev*
1B-517	Improving visible-light photocatalytic activity of pophyrin-sensitized TiO2 by Ag-doping *C. Paez, L. Tasseroul, J. Pirard, B. Heinrichs*
1B-519	Partial oxidation of methane over nano-sized nickel ferrites at low temperature *R. Benrabaa, H. Boukhlouf, S. Barama, A. Barama*
1B-520	Methanol oxidation over Au/SiO2 catalysts *A. Nuhu, A. Carley, S. Taylor, M. Bowker*
1B-528	CH4-CO2 reforming over Ni3Al intermetallide promoted by transition metals *L. Arkatova, L. Kurina, Y. Naiborodenko, N. Golobokov, N. Kasatsky*
1B-535	Bio-oxidation of primary alcohols to the corresponding aldehydes *T. Orbegozo, I. Lavandera, S. Bacher, J. De Vries, W. Kroutil*
1B-540	Oxidative dehydrogenation of propane over V2O5/TiO2-SiO2 catalysts *G. Carotenuto, M. Di Serio, R. Tesser, E. Santacesaria*
1B-550	Copper-ceria catalyst over industrial zirconia for preferential CO oxidation in hydrogen-rich mixtures *P. Strizhak, E. Moroz, G. Kosmambetova, A. Guralsky, V. Pakharukova, A. Boronin, V. Kriventsov*
1B-569	A Novel Method For Producing The Csx(W,Nb)5O14 Structure . *A. Simon, E. Kondratenko*
1B-583	Highly Active Vanadium Systems for the Partial Oxidation of n-decane *M. House, E. Huguet, N. Govender, J. Bartley, X. Baucherel, M. Watson, F. Prinsloo, G. Hutchings*
1B-594	Effect of calcination temperature of Au/Fe2O3 catalysts used for the selective oxidation of CO *A. Gurbani, J. Ayastuy, M. González-Marcos, M. Gutiérrez-Ortiz*
1B-598	Morphology and stability of colloidal gold synthesized using various reductants *A. Alshammari, A. Köckritz , V. Kalevaru , A. Martin*
1B-611	Effect of pretreatment on the catalytic activity of Fe-silicalites in ammoxidation of propane *R. Bulanek, E. Badurova, L. Capek*
1B-616	Ceria supported Gold/Iron oxide catalysts for VOCs catalytic combustion. *S. Albonetti, R. Bonelli, C. Femoni, P. Riccobene, S. Scirè, C. Tiozzo, F. Trifirò, S. Zacchini*
1B-617	Catalytic properties of mesostructured cerium dioxide doped with praseodymium in oxidation of hydrocarbons *S. Somacescu, I. Sandulescu, I. Popescu, P. Osiceanu, B. Su, V. Parvulescu*
1B-626	Metal complexes immobilized on mesostructured silica as biomimetic oxidation catalysts *V. Parvulescu, M. Mureseanu, R. Ene, N. Cioatera, I. Trandafir, C. Ene, M. Andruh*
1B-627	Manganese-containing supported catalysts of VOC oxidation, prepared by one-pot reaction in molten nitrates *M. Raciulete, A. Guevara-Lara, P. Afanasiev*
1B-630	Direct synthesis of hydrogen peroxide over Au-Pd/titanate nanotubes for green selective oxidation *L. Torrente Murciano, D. Chadwick*
1B-644	Catalytic Oxidation of Alkenylaromatics over Ship-in-a-bottle Synthesized Metalloporphyrin in Zeolite-Y *E. Jeong, N. Jiang, S. Park*
1B-655	Surface palladium - support phases in the catalysts Pd/Ce1-xZrxO2 of low temperature CO oxidation *A. Boronin, A. Ivanova, E. Slavinskaya, R. Gulyaev, I. Danilova, V. Zaikovskii, A. Noskov*
1B-656	The catalytic activity of nanoscopic Mo1V0,4Me0,12Pd4.10-4On (with Me=W,Te,Sb and n<4) for isopropanol oxidation. Active M2-Anderson phase in Te and Sb catalysts. *S. Barama, R. Vannier, O. Bakhti-Mohammedi, E. Bordes-Richard*
1B-657	Styrene epoxidation over spinel Mn3O4 nanocatalysts *A. Askarinejad, A. Morsali, M. Bagherzadeh*

1B-658	Low Cost, Thermally Stable La0.9Ba0.1CoO3 Perovskite type Catalysts for the Control of CO Emissions *P. Doggali, P. Chankapure, D. Valechha, S. Lokhande, S. Tijare, S. Bakardjieva, J. Šubrt , S. Rayalu , N. Labhsetwar*
1B-669	Influence of Doping Ta and Nb Metals on the Solar Photocatalytic Activity of S-Doped TiO2 *H. Znad, Y. Sakiyama, Y. Kawase*
1B-670	Controlled synthesis of heteropolyanionic porous supports and catalysts for the selective oxidation of isobutane into methacrylic acid. *W. Chu, M. Sultan, B. Katryniok, S. Paul*
1B-677	Integration of oxidative coupling of methane (OCM) and dehydrogenation of ethane for enhancement 0f C2H4/C2H6 ratio over Mn-Na2WO4/SiO2 catalyst *S. Safa, A. Khodadadi, Y. Mortazavi*
1B-687	Synthesis and study of Catalytic Activity of iron(III)-bis(2-oxazolinyl)Methane complex by Urea Hydrogen Peroxide in Oxidation of Sulfides *M. Bagherzadeh, N. Kazem*
1B-699	Colloid-imprinted carbon as a highly efficient anode electrocatalyst support in direct formic acid fuel cell *B. Fang, J. Kim, M. Kim, M. Kim , J. Yu*
1B-701	Supported Pt-Ru catalyst synthesized through a novel efficient approach for electroxidation of methanol *M. Kim, N. Chaudhari, B. Fang , J. Yu*
1B-707	On the effective preparation of MoV-X-O mixed oxides catalysts (X= Te or Sb) and their catalytic behavior in selective propane oxidation. *S. Hernández Morejudo, F. Ivars Barceló, J. López Nieto*
1B-743	Activity enhancement of LaCo0.95Pd0.05O3 regenerative catalyst for oxidation of pollutants in exhaust of natural gas engines *H. Ziaei-Azad, P. Esmaeilnejad-Ahranjani, A. Khodadadi, Y. Mortazavi*
1B-795	Photocatalytic Oxidation of Cyclohexene Using Immobilized Vit.B12 within Nanoreactors of Al-MCM-41 in presence of O2 *F. Nouroozi, F. Farzaneh, M. Ghandi*
1B-799	Supported Rh on ZrO2 –Al2O3 nanocomposite catalyst for catalytic partial oxidation of methane to syngas *S. Boullosa-Eiras, T. Zhao, Y. Yu, D. Chen, A. Holmen*
1B-812	Grafting reaction of platinum complexes on supported heteropolyoxometalates. Application to the partial oxidation of methane and lower alkanes *F. Lefebvre, N. Legagneux, E. Grinenval, J. Basset*
1B-821	Oxygen activation on heterogeneous copper catalysts: alkene epoxidation *N. Scotti, N. Ravasio, G. Busca, E. Finocchio, F. Zaccheria, V. Dal Santo, R. Psaro, L. Sordelli*
1B-823	New trends in design of catalysts for ethylene glycol oxidation into glyoxal *O. Vodyankina, A. Knyazev, O. Magaev, A. Kreiker, M. Salaev, V. Malkov, A. Stadnichenko, A. Boronin*
1B-870	Ni/CeO2 and Ni/CeO2-ZrO2 nanopowders with high catalytic activity for partial oxidation of methane *A. Kodjaian, I. Fabregas, M. Zimicz, D. Lamas, N. Amadeo, S. Larrondo*
1B-875	Sulfur organic compounds oxidation in the presence of niobium and vanadium peroxocomlexes in bi-phase system *A. Anisimov, A. Tarakanova*
1B-878	Catalytic oxidation by layered materials: Kaolinite covalently grafted with Iron (III)-pyridine carboxylic complexes *E. de Faria, G. Ricci, N. Bizaia, E. Nassar, P. Calefi, M. Vicente, R. Trujillano, A. Gil, S. Korili, K. Ciuffi*
1B-884	Gold nanoparticles in silicalite-1 from depolimerization synthesis. *N. Sanchez-Flores, G. Angeles, G. Pacheco-Malagon, H. Armendariz, J. Fripiat*
1B-886	The influence of water vapour on the oxidation of CO in the presence of the cryptomelane-type silver-manganese catalyst *W. Gac, S. Pasieczna-Patkowska, W. Zawadzki, A. Vaz*
1B-890	Nanostructured ceria-based catalysts for methane combustion *N. Cioatera, V. Parvulescu, A. Rolle, R. Vannier, B. Su*
1B-891	Selective alcohol oxidation using Au-Pd catalysts on nanocrystalline ceria prepared by supercritical antisolvent precipitation *A. Carley, J. Edwards, P. Medziak, T. Davies, S. Taylor, A. Herzing, C. Kiely, G. Hutchings*
1B-894	Gold Nanoparticles for the Selective Oxidation of Alcohols to Aldehydes: Effect of the Capping Agent. *A. Quintanilla, V. Butselaar-Orthlieb, K. Kwakernaak, W. Sloof, M. Kreutzer, F. Kapteijn*
1B-903	PREPARATION OF Pd CATALYSTS SUPPORTED ON SILICON NITRIDE BY MOCVD METHOD FOR TOTAL OXIDATION OF METHANE *G. Garcia Cervantes, F. Cadete Santos Aires, P. Diaz Herrera*
1B-905	Phenol Degradation with metalloporphyrins adsorbed on TiO2 and visible light irradiation *L. Alvarado, G. Granados, E. Páez, F. Martínez*

1B-910	Vanadium phosphate seeds and their influence on the transformation of VO(H2PO4)2 into catalyst precursors VOHPO4•0.5H2O *R. AL-Otaibi, N. Dummer, J. Bartley, G. Hutchings*
1B-919	Gold Species Supported on Nanostructured Ceria, obtained by hydrothermal synthesis *B. Acosta, R. Rangel, F. Castillón, M. Estrada, A. Simakov*
1B-921	The partial oxidation of CH4 to syngas over rhodium and nickel modified hexaaluminates *N. Touahri, R. Chebout, P. Ruiz, A. Benadda, A. Barama*
1B-930	LaCoO3 and LaFeO3 promoters for enhanced oxidation of CO formed in dense-catalyst region of FCC regenerators *N. Hosseinpour, Y. Mortazavi, A. Khodadadi, A. Bazyari, S. Habibzadeh*
1B-932	Comparative study of catalysts M/CeO2 (M is a metal from IB group: Au, Ag, Cu) for total oxidation of propene. *H. El Ayadi, M. Lamallem*
1B-947	Catalytic oxidation of sulfides by H2O2/MoO42-in three-phase-microemulsion systems: singlet oxygen mechanism versus direct oxygen transfer *M. Collinet-Fressancourt, V. Nardello-Rataj, C. Borde, J. Aubry*
1B-948	Development of catalytic surfactants for sustainable oxidations with H2O2 in three-phase microemulsion systems *M. Collinet-Fressancourt, V. Nardello-Rataj, C. Borde, J. Aubry*
1B-961	Highly Active Ferric Hydroxide Supported Pd catalysts for Selective Oxidation of CO in H2-Rich Stream *B. Qiao, A. Wang, J. Lin, X. Wang, J. Wang, T. Zhang*
1B-977	Photocatalytic degradation of 2,4,6-trichlorophenol by titania pillared layered silicates *A. Szegedi, R. Barthos, J. Valyon*
1B-999	Combustion of ethanol on manganese nickel oxide catalysts *M. Ouaguenouni, A. Benadda, A. Djadoun, A. Barama*
1B-1012	Synthesis and characterization of tetravalent metals (Ce, Ti, Zr) pyrophosphates catalysts: application in ODH of n-butane to butadiene. *E. Mokrane, A. Aissat, A. Abiaad, A. Aboukais, A. Barama*
1B-1013	Kinetics of acetylene decomposition over reduced strontium hexaferrites catalyst for the production of carbon nanotubes *A.A.Fargali, M.H. Khedr, M.K.Zayed, A. F. Moustafa*
1B-1014	Perovskite oxide catalysts for oxidative dehydrogenation of ethylbenzene *Y. Sekine, R. Watanabe, H. Aida, M. Matsukata, E. Kikuchi*
1B-1015	Fe doped La2O3 catalyst for oxidative coupling of methane *K. Tanaka, Y. Sekine, M. Matsukata, E. Kikuchi*
1B-1019	Selective catalytic oxidation of methanol to formaldehyde over iron molybdate catalysts prepared by different methods *K. H. Hassan, P.C.H. Mitchell*
1B-1027	Significant effect of excess Mn in LaMn1+xO3+δ on CO and propane oxidation activity enhancement for automotive pollution control *P. Esmaeilnejad-Ahranjani, Y. Mortazavi, A. Khodadadi*
1B-1030	Synthesis and Characterization of CuO/ZnO-Al2O3 Catalyst Washcoat with ZrO2 Sol for Autothermal Reforming of Methanol in a Fuel Cell Microreactor *K.-S. Lin, C.-Y. Pan, C.-T. Yeh*

29	**Poster session**	**B**	**Topic: 1C**	**Main Hall**

1C-66	Characterization of coked and regenerated USHY zeolites by temperature programmed oxidation. *A. Benamar, A. Miloudi*
1C-182	Oscillatory Behavior During Methane Oxidation over Pd catalysts: The Role of Carbon *V. Bychkov, Y. Tyulenin, M. Slinko, V. Korchak*
1C-245	Efficient Catalytic Phosphate Ester Cleavage by Binuclear Zinc(II) Pyrazolate Complexes as Functional Models of Phosphatases *L. Penkova, F. Meyer, I. Fritsky*
1C-327	Hydrocarbon interaction with BN-supported Ga2O3, In2O3, SnO2 studied by in situ electrical conductivity measurements *G. Postole, M. Caldararu, B. Bonnetot, A. Auroux*
1C-371	Methanol Oxidation over Iron-Molybdate Catalysts. Industrial Scale Experiments. *K. Ivanov, D. Dimitrov*
1C-398	Methanol Selective Oxidation over V2O5/TiO2 catalyst *V. Kaichev, G. Popova, Y. Chesalov, E. Danilevich, A. Saraev, I. Prosvirin, T. Andrushkevich, V. Bukhtiyarov, D. Zemlyanov, A. Knop-Gericke, R. Schlögl*

1C-399	Vanadium-containing oxynitrides – A new class of highly effective ammoxidation catalysts *C. Janke, J. Radnik, U. Bentrup, A. Martin, A. Brückner*
1C-422	Structural rearrangement of the Wells-Dawson heteropolycompund during the oxygen assisted catalytic reaction of the 2-butanol *E. Arendt, K. Mc Evoy, E. Charlier, E. Gaigneaux*
1C-430	n-Butane Oxidation over Gamma-Al2O3 Supported Vanadium Phosphate Catalysts *L. Leong, Y. Taufiq-Yap, I. Ramli*
1C-484	Probing of active Cu centres in CuY zeolite used for the oxidative carbonylation of methanol to dimethyl carbonate: An in situ-FTIR spectroscopic study *J. Engeldinger, C. Domke, U. Bentrup, M. Richter*
1C-522	Surface characteristics of CeO2-SnO2 catalysts obtained by co-precipitation. *T. Yuzhakova, Á. Rédey, M. Caldararu, J. Kovács, C. Hornoiu, A. Vasile, G. Postole, P. Chesler*
1C-542	In situ toluene complete oxidation on supported EuFeO3 monitored with 151Eu and 57Fe Mössbauer spectroscopy: Evidences about the cooperation of A and B species *M. Florea, M. Alifanti, V. Kuncser, G. Filoti, V. Parvulescu*
1C-547	Methanol oxidation catalyzed by Dawson-type polyoxometalates *L. Dermeche, R. Thouvenot, S. Hocine, C. Rabia*
1C-619	Assessing key parameters for tailored phase formation in MoVTeNbOx catalysts by simultaneous in situ XRD/Raman studies during calcination *M. Schneider, S. Winkler, A. Brückner*
1C-681	Effect of Varying Reflux Durations on the Physical and Chemical Properties of Vanadium Phosphate Catalysts via Vanadyl Hydrogen Phosphate Sesquihydrate *L. Leong, K. Chin, Y. Taufiq-Yap*
1C-702	Oscillations during partial oxidation of methane to synthesis gas over Al2O3 supported Ru catalyst *W. Weng, M. Wang, H. Zheng, X. Yi, C. Huang, H. Wan*
1C-704	Supported rhenium based materials: catalysts for methanol to methylal partial oxidation *X. Secordel, M. Capron, E. Berrier, S. Cristol*
1C-711	Pretreatment and characterization of Ni-alumina catalysts for oxidative dehydrogenation of ethane: structure vs. activity relationship *L. Smoláková, L. Capek, R. Bulánek, P. Cicmanec*
1C-745	Reaction mechanism of photocatalytic selective oxidation of cyclohexane in the presence of molecular oxygen over orthovanadate-like (V=O)O3 species on Al2O3 *K. Teramura, T. Hosokawa, T. Ohuchi, T. Shishido, T. Tanaka*
1C-755	XPS and LEIS study of O2- conducting oxide powders and membranes used for the partial oxidation of hydrocarbons in a dense membrane reactor *A. Löfberg, E. Bordes-Richard, L. Gengembre, R. ter Veen, T. Grehl, H. Brongersma*
1C-774	Active centers of methane–deuterium exchange reaction over Re-, Re-Pt/γ-Al2O3 catalysts. *E. Ismailov, S. Suleymanov, R. Zarbaliyev, M. Maharramov, M. Rustamov*
1C-820	Dynamic nature of surface sites on VxOy/SBA-15 catalysts *S. Wrabetz, J. Kröhnert, G. Tzolova-Müller, C. Hess, F. Jentoft, R. Schlögl*
1C-850	In situ investigations of selective oxidation reactions over Ag catalysts *T. Rocha, S. Zafeiratos, M. Hävecker, A. Oestereich, R. Blume, D. Teschner, A. Knop-Gericke, R. Schlögl*
1C-856	The active role of water in the selective oxidation of acrolein on mixed oxide catalysts *N. Blickhan, T. Jekewitz, S. Endres, A. Drochner, H. Vogel*
1C-857	Low temperature oxidation of CO and hydrocarbons studied by operando FTIR spectroscopy. *F. Colinot, P. Bazin, F. Meunier, M. Daturi, S. Rousseau, G. Blanchard*
1C-858	The study of composition of calcium and zirconium catalysts for oxidative conversion of methane *M. Hamidzadeh, M. Jafarbegloo, M. Razfar*
1C-866	Mechanism of Catalytic Decomposition of Pentachlorophenol by a Heterogeneous [Heme-Fe]-SiO2 Catalyst *K. Christoforidis, M. Louloudi, E. Milaeva, Y. Deligiannakis*
1C-901	Test of copper or silver impregnated aluminum pillared clay in CO oxidation *F. Turgut Basoglu, S. Balci*
1C-904	Defect chemistry and semiconductor-type 'core-shell' model for (Mo,V)-mixed oxides catalysts. *P. Jakes, R. Eichel, A. Drochner, H. Vogel*
1C-929	Catalytic epoxidation of cyclohexene over 2% TiO2-SiO2 *I. Khaldi, D. Lahcene, A. Choukchou-Braham, R. Bachir*

1C-954	CeTi oxides mesoporous catalysts characterization and use for the oxidation of butane in presence of CO2 *R. Galiasso Tailleur, A. Corma Canos*
1C-975	Oxidation catalytic performance of Al-pillared synthetic Ni-saponites *R. Trujillano, M. Vicente, V. Rives, S. Korili, A. Gil, K. Ciuffi, E. Nassar*
1C-1006	Kinetics and operando spectroscopic study of low-temperature methane combustion over a Pd/garma-Al2O3 catalyst *Y. Han, S. Chilukoti, K. Ramesh, J. Chang , Z. Tian*
1C-1020	Low temperature shift reaction CuO/ZnO/Al2O3 catalyst for oxidation of carbon monoxide to carbon dioxide / preparation, x-ray spectroscopic study and activity test. *K. Hassan*
1C-1028	In situ Characterization of Heterogeneous Catalysts Using Time-resolved X-ray Diffraction And X-ray Absorption Spectroscopy *J. C.Hanson, X-Q Wang , W. Wen, L. Barrio, G. Zhou, M. Estrella, J. A. Rodriguez*
1C-1032	Solid state transformations in molybdate catalysts studied by combined diffraction and spectroscopy *C. Kongmark, V. Martis, C. Pirovano, A. Löfberg, W. van Beek, G. Sankar, R.-N. Vannier, E. Bordes-Richard*
1C-1033	Resonance Raman spectroscopic study of alumina supported vanadium oxide catalyst *H.-S. Kim, S. Zygmunt, L. A. Curtiss, P. C. Stair*

29	**Poster session**	**B**	**Topic: 1D**	**Main Hall**

1D-365	The study of composition of M-Na-Mn/SiO2 catalysts for oxidative conversion of methane *M. Hamidzadeh, S. Mahmoodi, M. Ehsani*
1D-480	Selective oxidation of pyridine to pyridine-N-oxide with hydrogen peroxide over Ti-MWW catalyst *W. Xie, Y. Liu, C. Yue, S. Zhao, N. Li, M. He, P. Wu*
1D-500	Catalytic performance of copper-containing hexagonal mesoporous molecular sieves in styrene epoxidation using tert-butylhydroperoxide *X. Lu, Y. Yuan*
1D-510	Redox Properties of Oxidation Catalysts Probed by Cyclic TPR/TPO Experiments. *T. Franzke, N. Prondzinski, M. Muhler*
1D-710	Epoxidation of propylene with nitrous oxide. *B. Moens, P. Jacobs, B. Sels*
1D-742	Meta-Xylene Ammoxidation using Vanadium Oxide Catalyst *Y. Jeon, S. Park, J. Kim, Y. shul*
1D-848	Catalyst screening for the oxidative coupling of methane in high temperature parallel fixed bed reactors *L. Olivier, A. Van Veen, C. Mirodatos*
1D-871	Phenanthrene Catalyzed Oxidation of Alcohol to Aldehyde with Molecular Oxygen *A. Al-hunaiti, P. Lahtinen, M. Leskelä, T. Repo*
1D-885	Partial oxidation of methane to formaldehyde over Fe/MCM-41 catalysts. *B. Moens, J. Van Noyen, H. De Winne, W. Vermeiren, P. Jacobs, B. Sels*

29	**Poster session**	**B**	**Topic: 2B**	**Main Hall**

2B-230	One-step production of phenol by oxidation of benzene with oxygen and hydrogen in fluidized bed reactors *M. Gimeno, J. Soler, C. Tellez, J. Herguido, M. Menendez*
2B-278	Maximum safe diameters of micro capillaries in ethyleneoxide process *J. Fischer, C. Liebner, H. Hieronymus, E. Klemm*
2B-329	VOC oxidation by plasma-assisted Ag-Al catalysts *M. Magureanu, D. Piroi, N. Mandache, V. Parvulescu*
2B-338	Catalytic wet hydrogen peroxide oxidation with extruded AlCeFe-PILC catalyst *S. Moreno, R. Molina, N. Sanabria*
2B-441	Physical adsorption of SO2 vs. solubility in the molten phase of the vanadium catalyst *K. Warmuzinski, K. Gosiewski, M. Tanczyk*
2B-445	Catalytic combustion of methane and propane in a microchannel reactor *Y. Men, G. Kolb, M. O'Connell, R. Zapf, V. Hessel*

2B-851	Oxidehydrogenation of Ethylbenzene to Styrene. Analysis and Design of Membrane Reactor. *A. Bachiller, M. Rodriguez, J. Orejas, D. Ardissone*
2B-876	Oxidation of n-butane to maleic anhydride in a simulated circulating fluidized bed reactor *F. Diez, A. Vega, J. Fernandez*
2B-995	Fluidized bed and plug-flow microreactors for 1,1-dimethylhydrazine oxidation: effect of catalyst nature on product composition *I. Ismagilov, M. Kerzhentsev, O. Sukhova, E. Matus, L. Tsikoza, E. Rebrov, J. Schouten, Z. Ismagilov*
2B-1031	Selective oxidation of propylene via Iron-assisted oxygen transfer *B. Horváth and M. Hronec*

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3A-561	The role of Cs - key dopant in V/Ti/O catalysts for o-xylene oxidation to phthalic anhydride - reconsidered. *S. Luciani, N. Ballarini, A. Brentari, F. Cavani, F. Trifirò, C. Cortelli, F. Cruzzolin, R. Leanza*
3A-639	Liquid phase isobutane oxidation by hydrogen peroxide over CsxXyPMo11VO40 salts with X=Sb, Sn, Bi *L. Dermeche, R. Thouvenot, C. Rabia, N. Essayem*
3A-643	Oxidative Dehydrogenation of Ethylbenzene to Styrene with CO2 over V2O5-Sb2O5-CeO2/TiO2–ZrO2 Catalysts *A. Burri, N. Jiang, B. Hun Min, S. Eon Park*
3A-661	Synthesis of copper, nickel and calcium vanadates and their use in the oxidative dehydrogenation of propane *J. Hernández, A. Echavarría, L. Palacio*
3A-662	Vanadium intercalated hydrotalcites as precursors for the oxidative dehydrogenation of propane *J. Valverde, A. Echavarria, L. Palacio*
3A-673	Modifications in the Phase Transition and Catalytic Performance of a-NiMoO4 in Oxidation of cyclohexane by g-Irradiation *H. AbdelDayem, S. Sadek, M. Al-Omair*
3A-933	Selective oxidation of propylene over H3+xPMo12-xVxO40 catalysts supported on mesoporous HMS *S. Benadji, P. Eloy, A. Léonard, B. Su, K. Bachari, C. Rabia, E. Gaigneaux*
3A-1010	Development of analytical methods for the quantification of minor products during the selective oxidation of propene into acrolein *M. Roussel, S. Paul, E. Bordes-Richard*

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3B-125	Liquid-Phase Oxidative Dehydrogenation of Sodium Lactate to the Corresponding Pyruvate Using Pd/C and Te/Pd/C Catalysts *S. Sugiyama, T. Kikumoto, H. Tanaka, K. Nakagawa, K. Sotowa, K. Maehara, Y. Himeno, W. Ninomiya*
3B-224	Non-solvent liquid phase oxidation of styrene over first series transition metal substituted phosphotungstate: A comparative study *A. Patel, K. Patel, P. Shringarpure*
3B-257	Complex Heteropolytungstates as catalysts in the selective oxidation of diphenylsulfide to diphenylsulfoxide in presence of tert-butyl hydroperoxide *M. Egusquiza, K. Ben Tayeb, M. Munoz, G. Romanelli, C. Cabello, I. Botto, H. Thomas*
3B-288	Cu-MOF as a Selective Catalyst for Allylic Oxidation with Molecular Oxygen *D. Jiang, T. Mallat, A. Baiker*
3B-408	Environmentally benign iron catalyzed oxidation of olefins using hydrogen peroxide *B. Bitterlich, K. Schröder, M. Tse, K. Junge, M. Beller*
3B-508	Studies on preparation, characterization and ammoxidation activity of TiO2 supported VPO catalysts *N. Madaan, V. Kalevaru, A. Martin*
3B-538	TEMPO immobilized on SBA-15 silica as catalysts for the oxidation of alcohols *A. Machado, J. Castenheiro, I. Fonseca, A. Ramos, J. Vital*
3B-552	Production of high-value chemicals from biomass: Synthesis of DHA by continuous aerobic glycerol oxidation *A. Brandner, P. Claus*
3B-555	An Effective Catalytic Conversion of Lactic Acid Derivatives over Cs4-x-yHxMyPMo11V1O40. *W. Ninomiya, M. Sadakane, T. Yasukawa, H. Naitou, W. Ueda*
3B-652	Green Aerobic Oxidation of HMF *Y. Gorbanev, S. Klitgaard, A. Boisen, A. Riisager*

3B-659	Limonene oxidation using a catalyst based on nickel and molybdenum *C. González, E. Correa, J. Velásquez, A. Echavarría, A. Faro, L. Palacio*
3B-788	AlF3 supported V2O5 catalysts for ammoxidation of 3-picoline *V. Kalevaru, D. Burri, V. Vattikonda, B. Luecke, A. Martin*
3B-833	Promoters for the direct synthesis of hydrogen peroxide over Au-Pd catalysts *J. Edwards, A. Carley, C. Kiely, A. Herzing, G. Hutchings*
3B-840	The effects of surface silylation on the catalytic performance of Ti-MCM-41 in the oxidation of limonene *M. Guidotti, R. Psaro, N. Ravasio, M. Sgobba, I. Batonneau-Gener*
3B-873	Allylic oxidation of limonene over several substituted iron phthalocyanines and TBHP *L. Gonzalez, A. Villa, C. Montes de C, A. Sorokin*
3B-914	Oxidation of cyclohexane : Influence of the support acidobasicity and effect of the solvent on Ru based catalysts performances. *L. Pirault-Roy, I. Rekkab, C. Kappenstein, A. Choukchou-Braham*
3B-978	Oxidation of lactose from cheese whey with a Pd/SiO2 catalyst *A. Cabral, A. Pacifico, A. Knoechelmann, C. Abreu, L. Maranhão*
3B-981	Mesoporous Al-SBA-15 and Ga-SBA-15 catalysts for the epoxidation of cyclooctene with hydrogen peroxide *P. Pescarmona, I. Geukens, A. Peeters, B. Jarry, F. Launay, J. Bonardet, P. Jacobs*
3B-1043	Optically pure Dendritic Polyoxometalates for Asymmetric Oxidations *C. Jahier, C. Méliet, F.-X. Felpin, F. Agbossou, J.-C. Hierso, S. Nlate*

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Contacts

For general enquiries:
Dr Axel LÖFBERG (6WCOC Secretary)
UCCS – Bât. C3 – UST Lille
59655 Villeneuve d'Ascq Cedex (France)
Phone: +33 (0)3.20.43.45.27
Fax: +33 (0)3.20.43.65.61
Email: Axel.Lofberg@univ-lille1.fr
www.6wcoc.org

For enquiries about registration, accommodation, logistics:
PERSPECTIVES & ORGANISATION
Mrs Sophie LEFEBVRE
69 rue Leuridan Noclain
F-59150 Wattrelos (France)
Phone: + 33 (0)3.20.61.20.34
Fax: + 33 (0)3.20.61.20.35
Email: 6wcoc-logistic@orange.fr

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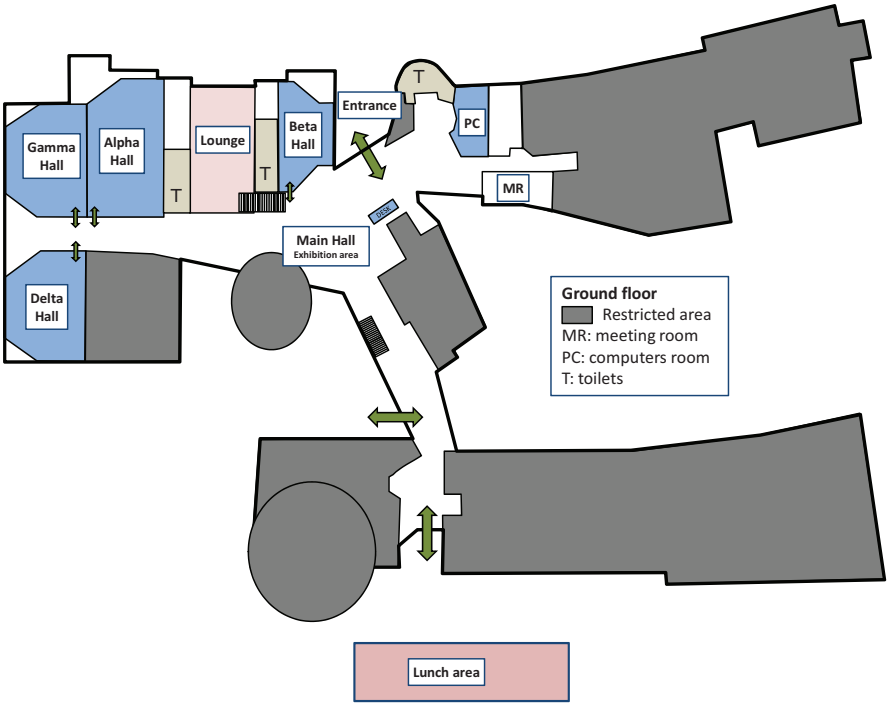

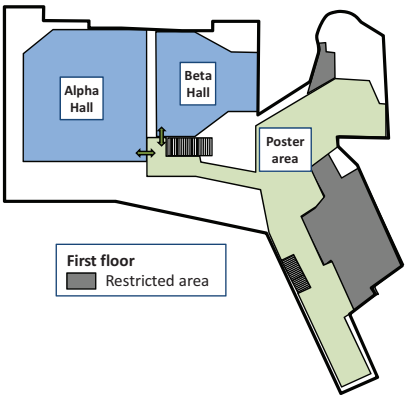

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