

General Directorate for Scientific Research and Technological Development



University Aboubekr Belkaïd Tlemcen
Laboratory of Catalysis and Synthesis
in Organic Chemistry



International Symposium
on Catalysis and Speciality Chemicals
ISCSC 2012

Book of Abstracts

September 23rd - 26th, 2012
Tlemcen, ALGERIA

Technical Program

MONDAY 24TH MORNING

8:00. Welcome

R. Bachir, *Chair*

8:30. Inauguration

Fraissard J, *Presiding*

9:30. **Plenary Lecture.** Green Synthesis of Organics and Nanomaterials: Sustainable Application of Nano-catalysts. *R.S.Varma, Cincinnati, USA.*

10:30. Welcome snack .

W.C.Conner & A. Bengueddach, *Presiding*

11:00. **Keynote address.** Selectivity modulation through immobilization of chiral catalysts on nano-structured supports. *J.A.Mayoral, Zaragoza Spain.*

11:40. **Keynote address.** Dry coating process: A green technology to design new particles. *L.Galet, A. Chamayou, Albi, France.*

12:20. **O1.** Solvent effects in the enantioselective hydrogenation of ethylbenzoylformate. *G. Martin, P. Mäki-Arvela, D. Yu. Murzin and T. Salmi, Abu, Finland.*

12:35. **O2.** Selective Oxidation of Sulfides to Sulfoxides Using H₂O₂, Catalyzed by *p*-TsOH under Solvent-Free Conditions. *S.Saadati, F. Hassanian, and A. Rostami, Sanandaj, Iran*

12:50 – 13:50
LUNCH

MONDAY 24TH AFTERNOON

C.Louis & K.Belkacemi, *Presiding*

14:00. **Plenary Lecture.** Improved deep desulfurization catalyst of diesel fuel: impregnation variables and modified supports. *Al Dalama, Al Ahmadi, Kuwait*

15:00. **Keynote address.** Problematic of Mercury in gaseous and liquid hydrocarbons. *S. Ghezali, Oran, Algeria*

15:40. **O3.** The partial oxidation of CH₄ to syngas over modified hexaaluminates. *N.Touahri Barkahoum, R. Chebout, A.Benadda, P.Ruiz, A.Barama, Algiers, Algeria*

15:55. **O4.** Keggin heteropolyanionic Si-W based precursors for fluid catalytic cracking and hydrocracking pretreatment catalysts: role of W content. *K. Bouadjadja-Rohan, M.Fournier, A. Bonduelle-Skrzypczak, A. Hugon, C. Lancelot, C. Lamonier, Lilles, France.*

16:10. **O5.** Characterization and reactivity in propene oxidation of H_{1-x}PMo_{12-x}V_xO₄₀ heteropolyacids supported on mesoporous SBA-15 and CMI-1. *S. Benadji, P. Eloy, A. Leonard, C. Rabia, Louvain-la-Neuve, Belgium.*

16:25. **O6.** Synthesis of Vanadium and iron containing SBA-15 and surface sulfonation. *S. Balci, Sultan Yuksel, Ankara, Turkey.*

16:40. **O7.** Activity and stability of Ga doped SBA-15 in Friedel-Crafts acylation. *F.Z.El-Berrichi, L.Charif, J-P.Tessonier, B.Louis, M-C.Ledoux, C. Pharm-Huu, Tlemcen, Algeria.*

16:55. **Coffee Break.**

M.Chater & Z.Arrar, *Presiding*

17:15. **Poster session 1**
P1 – P90.

20:00
DINNER

TUESDAY 25TH MORNING

R.S.Varma, *Presiding*

- 8:30. Plenary Lecture. Catalysis for Biofuels. *W.C. Conner. USA.*
- 9:30. Keynote address. Micro-Nano Structured Materials for Hydrogen Storage Sustainable Clean Energy. *M. Bououdina. Kingdom of Bahrain*
- 10:10. Coffee break.

F. Thibault-Starzyk & A. Choukchou-Braham, *Presiding*

- 10:30. Keynote address. Nano and meso structured catalysts and adsorbents for sustainable chemistry: new developments for agri-food applications. *K. Belkacemi, S. Hamoudi. Quebec, Canada.*
- 11:10. O8. Hydrogen production by steam reforming of ethanol over Cu-Ni catalysts supported on mesoporous carbon cmk-3: effect of Ni/Cu molar ratio. *M.S. El Ouchdi, L. Cherif, S. Bedrane, R. Bachir, A. Bengueddach. Tlemcen, Algeria*
- 11:25. O9. Hydroconversion of N-Tetradecane on Pt/Zeolites bifunctional catalysts: Effect of Zeolite structure. *A. Soualah, M. Chater, J-L. Lemberon, L. Pinard, P. Magnoux. Bejaia, Algeria.*
- 11:40. O10. A one-pot multi-component synthesis of dihydropyrimidinone/thione derivatives via Biginelli condensations using t-BuOK as catalyst under solvent-free. *L. Chouguiat, R. Boulcinaand, A. Debaiche. Constantine, Algeria.*
- 11:55. O11. Grubbs catalyst promoted oxacyclizations: easy route to polycyclic oxygenated structures. *A. Taleb, M.B. Lahrech, S. Hacini, J-L. Parrain. Oran, Algeria.*
- 12:10. O12. Hydrogenation/isomerization of safflower oil over mesostructured catalysts for the bioactive conjugated

linoleic acids synthesis. *K. Belkacemi, N. Charfa, S. Hamoudi. Quebec, Canada.*

12:25. O13. Photocatalysis in green chemistry. *F. Agouillal. Algiers, Algeria.*

12:45 – 13:55
LUNCH

TUESDAY 25TH AFTERNOON

O.Lapina & O.Cherifi, *Presiding*

- 14:00. Plenary Lecture. Gold based bimetallic catalyst. *C.Louis. Paris, France.*
- 15:00. Keynote address. In situ and operando IR spectroscopy for plasma in catalysis. *F. Thibault-Starzyk. Caen, France.*
- 15:40. O14. Tailor made and high-purity catalyst support materials based on alkoxide derived aluminas. *M. Schöneborn, F. Alber, P. Bussian, A. Malyschew, T. Rappert, H-J. Wölk. Hamburg, Germany.*
- 15:55. O15. Probing the stability and activity of indenylidene ruthenium catalysts immobilized on silica supported nitric acid on ring opening metathesis polymerization. *F.B. Hamad, F. Verpoort. Ghent, Belgium*
- 16:10. O16. Catalytic performances of metal anions MO_x (M = W, Cr, V, S, Mo) supported on Al₂O₃-ZrO₂ mixed oxides in oxidative dehydrogenation of short chain alkanes. *R. Issaadi, S. Benomar, S. Hernandez, T. Blasco, J.M. Lopez Nieto. Blida, Algeria.*
- 16:25. O17. Regioselectivity control in crotonaldehyde catalytic hydrogenation through Co/SiO₂ surface monitoring. *F. Djerboua, D. Benachour, R. Touroude. Setif, Algeria.*
- 16:40. O18. Preparation of vanadium modified clay and their catalytic activity in the epoxidation. *N. Belaidi, A. Dali, I. Rekkab, A. Choukchou-Braham, R. Bachir. Tlemcen, Algeria.*
- 16:55. Coffee Break.

K. Bachari & B. Tabti, *Presiding*

17:15. Poster session.

P91 - P174.

20:00
GALA DINNER

WEDNESDAY 26TH MORNING

K.M. Al-Dalama, *Presiding*

8:30. **Plenary lecture.** Supported Vanadium oxide nano-domains from fundamental electronic and molecular structure to reactivity/selectivity relationships. **O. Lapina, E. Papulovsky, A. Shubin, D. Khabibulin, I. Wachs.** Novosibirsk, Russia

9:30. **Keynote address.** Modular Synthesis of New C1-Symmetric Biaryl Ligands and Application in Catalysis. **F.R. Leroux, L. Bounnafoux, A. Berthelot, V. Diemer, F. Colobert.** Strasbourg, France.

10:10. Coffee Break.

J.A. Mayoral & D. Villemin, *Presiding*

10:30. **O19.** A Michael-Initiated Domino-Multicomponent Approach for the Stereoselective Synthesis of Trisubstituted Alkenes and 1,3-Dienes. **H. Habib-Zahmani, S. Hacini, J. Rodriguez.** Oran, Algeria.

10:45. **O20.** New and efficient synthesis of nitrogen heterocycles amino-5H-chromeno(3,4-c) pyridin-5-one. **Z. Kibou, N. Cheikh, N. Choukchou-Braham, F.Z. Belhadj, D. Villemin.** Tlemcen, Algeria.

11:00. **O21.** Study and determination of new conditions toward multiple components Mannich reaction. **A. Zetchi, T. Boumoud, B. Boumoud, A. Debbache.** Constantine, Algeria.

11:15. **O22.** Enzymatic catalysis of sorghum starches by amylases from various sources. **N. Boudries, B. Nadjemi, M.**

Sindic, N. Belhaneche-Bensamra. Algiers, Algeria.

11:30. **O23.** Efficient chemoenzymatic approach to enantio-enriched 1,2-disubstituted ferrocenes possessing only planar chirality. **M. Merabet-Khelassi, L. Aribi-Zoulouiche, O. Riant.** Annaba, Algeria.

11:45. **O24.** Combined biocatalyzed resolution/Mitsunobu stereoinversion for the preparation of enantiomerically enriched (S)-arylalkylcarbinols. **N. Bouzemi, Z. Houiene, I. Grib, L. Aribi-Zouiouiche.** Annaba, Algeria.

12:00. **Keynote address.** Recent Advances in the Chemistry and Biology of Alzheimer Disease. **C. Ziani-Cherif, G. Ferouani, B. Mostefa-Kara, S. Benzerjeb, A. Benmeddah.** Tlemcen, Algeria.

12:40. Closing ceremony.

13:00 - 14:00
LUNCH

WEDNESDAY 26TH AFTERNOON

14:00. Site Visit

20:00. **Special Guest Presentation.** Presenting the Specialty Chemicals Magazine. **A. Warmington.** London, UK.

20:00
DINNER