

CURRICULUM VITAE

PERSONAL INFORMATION

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ANTONIOS C. PSARRAS
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EDUCATION

- Dates (from – to) 2005-2009
- Name and type of organization providing education Aristotle University of Thessaloniki, Faculty of Engineering, Department of Chemical Engineering & Center for Research and Technology Hellas / Chemical Process Engineering Research Institute (CE.R.T.H. / C.P.E.R.I.)
- Title of qualification awarded Phd thesis
- Principal subject Study of the deactivation of FCC catalysts due to deposition of contaminant feed metals
- Dates (from – to) 2004- 2007
- Name and type of organization providing education National and Capodistrian University of Athens, Department of Chemistry
- Principal subjects Catalysis and Applications
- Title of qualification awarded Master thesis
- Grade 9.41/10
- Dates (from – to) 1998 – 2004
- Name and type of organisation providing education Aristotle University of Thessaloniki, Faculty of Engineering, Department of Chemical Engineering
- Title of qualification awarded Diploma Of Chemical Engineering
- Grade 7.2/10

RESEARCH ACTIVITIES

PROCESS SIMULATION IN BENCH-
SCALE UNITS

Fluid Catalytic Cracking (FCC), gas chromatography, evaluation of FCC catalysts (in MicroActivityTest-MAT units), deactivation of FCC catalysts by deleterious FCC feed metals, laboratory deactivation techniques (steaming, CPS, CDU), elucidation of deactivation and metal passivation methods, regeneration of spent FCC catalyst, development and evaluation of FCC catalytic additives for the in-situ reduction of sulfur in gasoline, bio-oils catalytic cracking (in MicroActivityTest-MAT units)

CHARACTERIZATION OF
MATERIALS.

Compositional/Structural/Morphological characterization of materials applying several methods: ICP-AES, AES, Nitrogen physi-sorption, XRD, SEM-EDS, HR-TEM, EPR, Dense phase separation of aged FCC catalysts, UV-Vis, FTIR combined with pyridine adsorption for acidity quantification, investigation of other probe molecule

PUBLICATIONS IN INTERNATIONAL JOURNALS

- A1 **FTIR Study of 2,6 DTBPy Adsorption on FCC Catalysts**, A.C. Psarras, E.F. Iliopoulou, A.A. Lappas, to be submitted
- A2 **Insights into the role of SO₂ and H₂O on the surface characteristics and de-N₂O efficiency of Pd/Al₂O₃ catalysts during N₂O decomposition in the presence of CH₄ and O₂ excess**, M. Konsolakis, I.V. Yentekakis, G. Pekridis, N. Kaklidis, A.C. Psarras, G.E. Marnellos, *Applied Catalysis B: Environmental* **138-139** (2013) 191 -198
- A3 **Relating n-Pentane Isomerization Activity to the Tungsten Surface Density of WO_x/ZrO₂** N. Soultanidis, W. Zhou, A.C. Psarras, A.J. Gonzalez, E.F. Iliopoulou, C.J. Kiely, I.E. Wachs, M.S. Wong, *J. Am. Chem. Soc.* **132** (2010) 13462
- A4 **Investigation of advanced laboratory deactivation techniques of FCC catalysts via FTIR acidity studies** A.C. Psarras, E.F. Iliopoulou, K. Kostaras, A.A. Lappas, C. Pouwels, *Micropor. Mesopor. Mater.*, **120** (2009) 141
- A5 **Study of the accessibility effect on the irreversible deactivation of FCC catalysts from contaminant feed metals** A.C. Psarras, E.F. Iliopoulou, L. Nalbandian, A.A. Lappas and C. Pouwels, *Catal. Today*, **127** (2007) 44

CHAPTERS IN BOOKS

- 1 **Advanced Artificial Deactivation of FCC Catalysts** A.C. Psarras, E.F. Iliopoulou, A.A. Lappas, *Advances in Fluid Catalytic Cracking: Testing, Characterization, and Environmental Regulations*, Ed. Mario L. Occelli, CRC Press Taylor & Francis Group 2010

SELECTED PUBLICATIONS IN SCIENTIFIC CONFERENCES

- Impact of alumina on the passivation of contaminant metals (Ni) on Fluid Catalytic Cracking catalysts**, A.C. Psarras, E. Pahatouridou, E.F. Iliopoulou, A.A. Lappas, 9th Panhellenic Chemical Engineering Conference,, 23-25/5/2013, Athens, Greece
- Advanced artificial deactivation of FCC catalysts** A.C. Psarras*, E.F. Iliopoulou and A.A. Lappas, 8th International Symposium on Advances in Fluid Cracking Catalysts (FCCs) ” 238th National ACS meeting August 16-20, 2009, Washington DC
- Effect of the concentration and the oxidative state of the deposited contaminant metals (Ni, V) on the acidity of the fluid catalytic cracking catalysts**, A.C. Psarras*, E.F. Iliopoulou, A.A. Lappas, 7th Panhellenic Chemical Engineering Conference,, 3-5/6/2009, Patras, Greece
- FTIR investigation of accessible acidity of FCC catalysts**, A.C. Psarras*, E.F. Iliopoulou and A.A. Lappas, CLEAR summer school, 24-29/5/2009, Porto Carras, Sithonia, Greece
- Relating pentane isomerization activity to the acidic properties of WO_x/ZrO₂**, N. Soultanidis*, A.C. Psarras, Charles A. Roberts, I.E. Wachs, M.S. Wong, 21st NAM annual meeting, Environmental/Chemicals, June 11, 2009, San Francisco, CA
- Generation of Highly Active Nanocrystals on Tungstated Zirconia**, N. Soultanidis*, A.J. Gonzalez, A.C. Psarras, I.E. Wachs, M.S. Wong, Nanotech Conference and Expo, Nanotech & Cleantech for Oil & Gas, May 3, 2009 Houston, TX
- Relating pentane isomerization activity to the acidic properties of WO_x/ZrO₂** N. Soultanidis*, A.J. Gonzalez, A.C. Psarras, I.E. Wachs, M.S. Wong, Southwest Catalysis Society (SWCS) Symposium, April 24, 2009, Houston, TX