Saturday, 24th February 2007

8:30 - 9:00	*Registration*
9:00 – 9:20	*Opening ceremony* V. Zaspalis, Workshop & School chairman C. Kiparissidis, Director of CERTH N. Kanellopoulos, INSIDE PORes coordinator
9:20 - 10:10	*Electrokinetics in porous media* P.M. Adler UPMC- Sisyphe, France
10:10 - 10:35	Coffee break
10:35 - 12:15	*Fundamentals of Adsorption* F Rodríguez-Reinoso University of Alicante, Spain
12:15 - 13:45	Lunch
13:45 – 15:25	*Fundamentals of synthesis processes of nanoporous solids* E. Vansant and P. Cool University of Antwerpen, Belgium
15:25 - 15:45	Coffee break
15:45 – 17:05	Oral Poster Presentations I (P1 – P16)
15:45 –15:50	*Separation of propylene/propane mixtures over microporous materials* J. Gascon, A van Miltemburg, W. Zhu, F. Kapteijn, J. A. Moulijn Delft University of Technology, The Netherlands
15:50 –15:55	*Development of synthesis methods for scale-up and characterization of ceramic membranes for application isomers separation* S.Aguado, J.C. Jansen, F. Kapteijn Delft University of Technology, The Netherlands
15:55 –16:00	*Microporous ceramic membrane technology for the removal of Arsenic and Chromium ions from contaminated water* A. Pagana[1,2], S. Sklari[1], E.S. Kikkinides[1,2], V. Zaspalis[1] [1]Chemical Process Engineering Research Institute, Centre for Research and Technology, [2] University of West Macedonia, Greece
16:00 –16:05	*Hydrogen production from water with RedOx perovskite ceramic materials* A. Evdou, L. Nalbandian, V. Zaspalis Chemical Process Engineering Research Institute, Centre for Research and Technology, Greece
16:05 –16:10	*Modification methods of commercial ceramic membranes for selectivity enhancement*

	D. Koutsonikolas[a], S. Topis[a,b], G. Skodras[a,b,c], S. Kaldis[c], G.Sakellaropoulos[a,b,c] [a]Aristotle University of Thessaloniki, [b]Institute for Solid Fuel Technology and Applications, Centre for Research and Technology, [c]Chemical Process Engineering Research Institute, Centre for Research and Technology, Greece
16:10 –16:15	*Tuning framework polarity to enhance mass transport in zeolite pores* J.Kuhn, J.Gross, J.C. Jansen, F. Kapteijn, P.J. Jansens Delft University of Technology, The Netherlands
16:15 –16:20	*Absolute water separation using H-SOD membranes* S. Khajavi, F. Kapteijn, J.C. Jansen Delft University of Technology, The Netherlands
16:20 –16:25	*Investigating the evolution of N2 transport mechanism during the post treatment of silica membranes by application of a cyclic chemical vapor deposition method* A. Labropoulos, G.E. Romanos, G. Pilatos, N. Kakizis, E. Favvas, N.K. Kanellopoulos National Center for Scientific Research "Demokritos", Greece
16:25 –16:30	*Synthesis And Characterization Of Carbon Nanotube Modified Membranes* E. C. Vermisoglou[a], G. Pilatos[a], G. Romanos[a] N. Boukos[b] and N. K. Kanellopoulos[a] National Center for Scientific Research "Demokritos", Greece
16:30 –16:35	*(HR)-Transmission Electron Microscopy as a tool for understanding the magnetic behavior of NiCuZn-ferrites* V. Tsakaloudi[1], D. Sakellari[1], E. Polichroniadis[2], V. Zaspalis[1] [1]Chemical Process Engineering Research Institute, Centre for Research and Technology [2]Aristotle University of Thessaloniki, Greece
16:35 –16:40	*Neutron Scattering: A tool to probe structure and dynamics in porous silica* G. Lelong[1], D.L. Price[2], S. Bhattacharyya[1], J.W. Brady[3], T. Steriotis[4], G. Charalambopoulou[4], A. Brandt[5], M.-L. Saboungi[1] [1]Centre de Recherche sur la Matière Divisée (CRMD), Orléans, [2]Centre de Recherche sur les Matériaux à Haute Température (CRMHT), Orléans, France [3]Cornell University, USA [4]National Center for Scientific Research "Demokritos", Greece [5]BENSC - Hahn-Meitner Institut, Germany
16:40 –16:45	*Ellipsometric Porosimetry: fast and non destructive method of porosity*

	chracterization of mesoporous thin films: example on cubic TiO_2 C. Defranoux, A. Bondaz, L. Kitzinger, C. Walsh SOPRA, France
16:45 –16:50	*Ellipsometric Porosimetry: fast and non destructive method of porosity chracterization of Solid Oxide Fuel Cell material based on YSZ thin film* C. Defranoux, A. Bondaz, L. Kitzinger, C. Walsh SOPRA, France
16:50 –16:55	*Materials for space communications* E. Eleftheriou, V. Zaspalis Chemical Process Engineering Research Institute, Center for Research and Technology, Greece
16:55 –17:00	*Mesoporous Carbon/Birnessite-type MnO_2 as Nanocomposite Electrode for Supercapacitors* Y. Lei, J.-L. Pascal, F. Favier AIME, Institut Charles Gerhardt, France
17:00 –17:05	*Interfacial Resistance Phenomena in Zeolite Membranes* D. Newsome, D. Sholl Delft University of Technology, The Netherlands *Carnegie-Mellon University, USA*
17:10 –18:10	Poster Session I (P1 – P16)
18:15 -	JRA meeting & Young Research meeting

Sunday, 25th February 2007

8:30 – 10:10	*Fundamentals of diffusion processes (diffusion mechanisms and phenomena, principles of measurement)* J. Kärger University of Leipzig, Germany
10:10 - 10:35	Coffee break
10:35 – 11:25	*Nuclear Magnetic Resonance. Basic Principles and Applications* F. Grinberg University of Leipzig, Germany
11:25 – 12:15	*Interference and IR Microscopy* J. Kärger University of Leipzig, Germany
12:15 - 13:45	Lunch
13:45 – 14:35	*In-situ AFM studies of nanoporous materials* G. Tomilson Institute for the Study of Nanostructured Materials – CNR, Italy
14:35 – 15:25	*Special topics on advanced reconstruction techniques of porous media* P.M. Adler UPMC- Sisyphe, France
15:25 - 15:45	Coffee break
15:45 – 17:05	Oral Poster Presentations II (P17 – P32)
15:45 –15:50	*Sol-gel assembly of silicalite-1 nanoslabs in the absence of a meso-template forming a mesoporous material* W. J.J. Stevens, E. Bruijn, V. Meynen, P. Cool, E. F. Vansant, O. I. Lebedev, G. Van Tendeloo University of Antwerpen, Belgium
15:50 –15:55	*Microwave synthesis of nanosized VS-1* A. Ristić, A. Lipovšek and V. Kaučič National Institute of Chemistry, Slovenia
15:55 –16:00	*Relationship between the acidity of Fe-MCM-22 and the coordination states of iron species* R.M. Mihályi, K. Lázár*, M. Kollár, F. Lónyi, G. Pál-Borbély Institute of Surface Chemistry and Catalysis, *Institute of Isotopes, Hungary
16:00 –16:05	*Synthesis of Aluminum-incorporated SBA-15 with Hydrolysis- and pH-Controlled Approach* Y.-S. Ooi, Y. Jiang, J. Huang, V. R. R. Marthala, M. Hunger University of Stuttgart, Germany

16:05 –16:10	*Electrodeposition of highly porous TiO2 films for photochemical applications using benzoquinone derivatives as templates* K. Wessels[1], J. Rathousky[2], M. Wark[1], J. Caro[1], T. Oekermann[1] [1] University of Hannover, Germany [2]J. Heyrovsky Institute of Physical Chemistry, Czech Republic
16:10 –16:15	*Mesoporous silicas modified with sulfonic acid functionalities by grafting or co-condensation: effect on the proton conductivity* R. Marschall[1], J. Rathousky[2], M. Wark[1], J. Caro[1] [1]University of Hannover, Germany [2]J. Heyrovsky Institute of Physical Chemistry, Czech Republic
16:15 –16:20	*High Yield Synthesis of Nanocrystalline Sodalite* S. Münzer, P. Behrens, J. Caro University of Hannover, Germany
16:20 –16:25	*Aerosol generation of non-ionic surfactant templated nanostructured silica particles* R. Pitchumani[1], A. Schmidt-Ott[1], M.-O. Coppens[1,2] [1]Delft University of Technology, The Netherlands [2]Rensselaer Polytechnic Institute, USA
16:25 –16:30	*Influence of ethanol and salt on the morphological changes of Poly(ethylene oxide)-Poly(propylene oxide)-Poly(ethylene oxide) block copolymer assemblies* A.G. Denkova[1], E. Mendes[1], M.-O. Coppens[1,2] [1]Delft University of Technology, The Netherlands [2]Rensselaer Polytechnic Institute, USA
16:30 –16:35	*Properties of invertase covalently immobilized on siliceous mesostructured cellular foams* K. Szymańska[a], E. Kostrzewa[a], J. Bryjak[b], J. Mrowiec-Białoń[c], A.B.Jarzębski[a,c] [a]Silesian University of Technology, [b]Wrocław University of Technology, Faculty of Chemistry, Wrocław, [c]Polish Academy of Sciences, Poland
16:35 –16:40	*Synthesis of ordered mesoporous carbon via chemical vapor deposition: A comparison between SBA-15 and SBA-16 templates* F. Heinroth, P. Behrens University of Hannover, Germany
16:40 –16:45	*Synthesis and characterisation of mesoporous silica matrix* G. Lelong[1], F. Méducin[1], F. Warmont[1], V. Montouillout[2], J.-P. Salvetat[1], D. Massiot[2], M.-L. Saboungi[1] [1]Centre de Recherche sur la Matière Divisée (CRMD), Orléans,

	[2]Centre de Recherche sur les Matériaux à Haute Température (CRMHT), Orléans, France
16:45 –16:50	*Ethanol removal by activated carbons. Effect of porosity and surface chemistry* A. Silvestre-Albero, J. Silvestre-Albero, A. Sepúlveda-Escribano and F. Rodríguez-Reinoso University of Alicante, Spain
16:50 –16:55	*Monoliths with hierarchical pore structure* H. Preising, D. Enke *University of Halle, Germany*
16:55 –17:00	Preparation and characterisation of carbon powders by pyrolysis of alginate F.K. Katsaros, S. Papageorgiou, T.A. Steriotis, N.K. Kanellopoulos National Center for Scientific Research "Demokritos", Greece
17:00 – 17:05	*Magnetic Mn-Zn ferrite nanoparticles* L. Nalbandian[1], A. Delimitis[1], V.T. Zaspalis[1], D.N. Bakoyannakis[2], E.A. Deliyanni[2] [1]Chemical Process Engineering Research Institute, Centre for Research and Technology, [2] Aristotle University of Thessaloniki, Greece
17:10 –18:10	Poster Session II (P17 – P32)

Monday, 26th February 2007

8:30 – 9:20	*Membrane Processes: Design and Practical Issues* D.M. Ruthven University of Maine, USA
9:20 – 10:10	*Porous membranes- recent developments and expected applications in industrial gas separation and in catalytic membrane reactors* J Caro University of Hannover, Germany
10:10 - 10:35	Coffee break
10:35 – 12:15	*Fundamentals of heterogeneous catalysis by porous solids* R. Gläser *University of Stuttgart, Germany*
12:15 - 13:45	Lunch
13:45 – 14:35	*Characterization measurements of the same reference nanoporous solids by different ex-situ techniques (Round Robin Tests)* M Stöcker[1], F Rodríguez-Reinoso[2] and Antonio Sepúlveda-Escribano[2] [1] SINTEF Materials and Chemistry, [2]University of Oslo, Norway [2] University of Alicante, Spain
14:35 – 15:25	*Fundamentals of modelling adsorption in nanoporous materials* M. Sweatman University of Strathclyde, UK
15:25 - 15:45	Coffee break
15:45 – 16:55	Oral Poster Presentations III (P33 – P46)
15:45 –15:50	*Small angle neutron scattering and porous materials - Development of an in-situ set-up for studying sorption phenomena* Céline Galant, Kenneth D. Knudsen, Jiri Muller, Arne T. Skjeltorp Institute for Energy Technology (IFE), Norway
15:50 –15:55	*Mass transport dynamics of O2 and N2 in wood-based carbon molecular sieves* Zsolt Ötvös, György Onyestyák, Krisztina László Institute of Surface Chemistry and Catalysis, Chemical Research Center, Hungarian Academy of Sciences, Hungary
15:55 –16:00	*Simulation of transport processes in digitized porous media generated by hybrid reconstruc-tion methods* M.G. Politis[1,2], M.E. Kainourgiakis[3],E.S. Kikkinides[1,2] [1]Chemical Process Engineering Research Institute, Centre for Research and Technology, [2]University of West Macedonia, [3] National Center for

	Scientific Research “Demokritos”, Greece
16:00 –16:05	*Investigation of Uptake Processes in Silicalite-1 Fragments by means of Interference Microscopy* *D. Tzoulaki[❖], J. Kärger[❖], W. Schmidt[✡]* [❖] University of Leipzig, [✡] MPI für Kohlenforschung, Germany
16:05 –16:10	*Adsorption of carbon dioxide on micro/mesoporous powders* C. Knöfel[1], V. Meynen[2], P. Cool[2], V. Hornebecq[1], P. L. Llewellyn[1] [1]MADIREL, CNRS - Université de Provence, France [2]University of Antwerp, Belgium
16:10 –16:15	*Using In Situ Measurements (Microcalorimetry, Syncrotron X-Ray Scattering, Infrared Spectroscopy) To Understand Sorption Induced Breathing In The Metal Organic Framework Mil53(Cr*) P. L. Llewellyn[1], S. Bourrelly[1], R. Denoyel[1], A. Vimont[2], N.A. Ramsahye[3], G. Maurin[3], C. Serre[4], G. Férey[4] [1]MADIREL, CNRS, Université de Provence, [2]Laboratoire Catalyse et Spectrochimie, [3]LPMC UMR CNRS, Université Montpellier II, [4]UMR CNRS, Université de Versailles Saint-Quentin-en-Yvelines, France
16:15 –16:20	*Synthesis of ZSM-5/SBA-15 composite* J. Wang,* M.-O. Coppens*,# *Delft University of Technology, The Netherlands #Rensselaer Polytechnic Institute, USA
16:20 –16:25	*Adsorption of Polyaromatic Hydrocarbons in Porous Adsorbents* C. L. Cavalcante Jr., D. C.S. Azevedo, S. Mardônio P. Lucena, A. E. B. Torres Universidade Federal do Ceará, Brazil
16:25 –16:30	*Modelling the adsorption of quantum fluids via a path-integral density functional theory* M.B. Sweatman *University of Strathclyde, UK*
16:30 –16:35	*Model porous silica-based materials for selective adsorption of heavy metal cations: Problems related to surface functionalisation and heteroatom insertion* K. Szczodrowski, S. Lantenois, B. Prélot, J.-M. Douillard, J. Zajac CNRS, Université Montpellier II, France
16:35 –16:40	*Functionalization and characterisation of mesoporous silica nanoparticles for drug delivery* H. Dabboue[a], M. Fisichella[a], S. Bhattacharyya[a], G. Lelong[a], M.-L. Saboungi[a], J.-P. Salvetat[a], F. Warmont[a], M. Guérin[b], T. Hevor[b], P. Midoux[c], C. Pichon[c], J.-P. Molès[d], A. Tesnière[d]

	[a]Centre de Recherche de la Matière Divisée-CNRS, [b]Université d'Orléans, [c]Centre de biophysique moléculaire-CNRS, [d]Institut Universitaire de Recherche Clinique, France
16:40 –16:45	*Flow Microcalorimetry: experimental development and application to adsorption of heavy metal cations on silica* S. Lantenois[1,2], B. Prélot[1*], J.-M. Douillard[1], K. Szczodrowski[1], M.-C. Charbonnel[2] [1]CNRS, Université Montpellier II, [2]CEA VALRHO – Marcoule, France
16:45 –16:50	*Adsorption of benzothiophene on activated carbons* R. V. R. A. Rios, J. Silvestre-Albero, A. Sepúlveda-Escribano, F. Rodríguez-Reinoso University of Alicante, Spain
16:50 –16:55	*Estimation of the Pore Diffusion Coefficients in Silica gels by Combination of Gas Permeation with a Catalytic Test Reaction* H Preising, D. Enke, T. Hahn *University of Halle, Germany*
17:00 –18:00	Poster Session III (P33 – P46)

Tuesday, 27th February 2007

8:30 - 9:20	*Recent advances in Nanomedicine* C. Kiparissidis Aristotle University of Thessaloniki and Chemical Process Engineering Research Institute, Greece
9:20 – 10:10	*Nanoporous Multifunctional Composites for Medical Applications* T. Tsakalakos Rutgers University, USA
10:10 - 10:35	Coffee break
10:35 – 11:25	*Neutron diffraction* D. Fruchart *CNRS, France*
11:25 - 12:15	*Applications of SANS and SAXS for the in-situ characterisation of nanoporous materials* J. Ramsay CNRS, France
12:15 - 13:45	Lunch
13:45 –14:35	*Synchrotron Radiation* M.L. Saboungi *CNRS (F)*
14:35 – 15:25	*Calorimetric methods* P. Llewellyn CNRS (F)
15:25 - 15:45	Coffee break
15:45 –16:35	*Biorefinery research:* *Recent Advances and Applications.* G. Tomilson Institute for the Study of Nanostructured Materials – CNR, Italy
16:35 –17:25	*Fundamentals of adsorption at the solid-liquid interface* J. M. Douillard, B. Prélot CNRS, France
21:00 -	Dinner

Wednesday, 28th February 2007

8:30 –9:20	*Recent advances and expected applications in the field of porous filters* A. Konstantopoulos *Chemical Process Engineering Research Institute,* Centre for Research and Technology, *Greece*
9:20 – 10:10	*Development and Application of Nano-Porous Adsorbents and Catalysts for Gas Separations: An Industrial Perspective* M. W. Ackley Praxair, Inc., USA
10:10 - 10:35	Coffee break
10:35 – 12:15	*Digital reconstruction methods for the simulation of equilibrium and dynamic processes in porous media* E. Kikkinides Chemical Process Engineering Research Institute, Centre for Research and Technology, University of West Macedonia, Greece
12:15 - 13:45	Lunch
13:45 – 14:35	*Porous materials in energy applications* F. Favier, D. Jones CNRS, France
14:35 – 15:25	*Recent advances in hydrogen storage processes* T. Steriotis, A. Stubos National Center for Scientific Research "Demokritos", Greece
15:25 - 15:45	Coffee break
15:45 – 16:50	Oral Poster Presentations IV (P47 – P59)
15:45 –15:50	*C4 hydrocarbons conversions: analysis and catalysts characterisation* A. De Stefanis, S. Kaciulis, L. Pandolfi, P. Cafarelli Institute for the Study of Nanostructured Materials, CNR, Italy
15:50 –15:55	*Heptane dimerisation on zeolites, PILCs and nanoporous zeotypes* E. Borsella, A.A.G. Tomlinson, P. Cafarelli, A. De Stefanis Institute for the Study of Nanostructured Materials, CNR, Italy
15:55 –16:00	*Oxidative dehydrogenation of propane over vanadia catalysts: From non-porous to ultra-mesoporous silicates supports* S.A. Karakoulia[1,2], K. S. Triantafyllidis[1], A. A. Lemonidou[1] [1]Aristotle University of Thessaloniki, [2]Chemical Process Engineering Research Institute, Centre for Research and Technology, Greece
16:00 –16:05	*Influence of Pressure during the Alkylation of Toluene with Ethane* D. Singer, S. A. Sadat Rezai, S. Sealy, Y. Traa University of Stuttgart, Germany

16:05 –16:10	*Manganese-containing micro- and mesoporous catalysts for the oxidation of benzyl alcohol* D. Pufky[a], R. Anand[a], S.C. Laha[a], D. Geiß[a], N. Tušar[b], V. Kaučič[b], U. Hanefeld[c], R. Gläser[a] [a] University of Stuttgart, Germany [b] National Institute of Chemistry, Slovenia [c] Delft University of Technology, The Netherlands
16:10 –16:15	*Crotonaldehyde hydrogenation over (111) and (100) preferentially oriented Pt nanoparticles supported on carbon* J. C. Serrano-Ruiz, J. Solla-Gullón, A. López-Cudero, E. Ramos-Fernández, A. Sepúlveda Escribano, A. Aldaz, F. Rodríguez-Reinoso University of Alicante, Spain
16:15 –16:20	*Structural characterization of undoped and La-doped Rh on Ceria-Zirconia catalysts for the steam reforming of acetic acid* A. Delimitis[1], L. Nalbandian[1], E. Vagia[2], A.A. Lemonidou[2] [1]Chemical Process Engineering Research Institute, Centre for Research and Technology, [2]Aristotle University of Thessaloniki, Greece
16:20 –16:25	*Development of new sorbent materials for the in situ CO2 removal in methane steam reformer* C. S. Martavaltzi, A. A. Lemonidou Aristotle University of Thessaloniki, Greece
16:25 –16:30	*Beckmann rearrangement of ^{15}N-cyclohexanone oxime to ε -caprolactam on silicalite-1, H-ZSM-5, and H-[B]ZSM-5 studied by solid-state NMR spectroscopy* V. R. R. Marthala, W. Wang, R. Glaeser, M. Hunger *University of Stuttgart, Germany*
16:30 –16:35	Formation of carbon nanotubes on iron/cobalt-modified zeolite-Y: Effect of zeolite porosity and particle morphology K. S. Triantafyllidis[1], S.A. Karakoulia[2], D. Gournis[3], L. Nalbandian[2], A. Delimitis[2], E. Maccalini[4], P. Rudolf[4] [1]Aristotle University of Thessaloniki, [2]Chemical Process Engineering Research Institute, Centre for Research and Technology, [3]University of Ioannina, Greece [4]University of Groningen, The Netherlands
16:35 –16:40	*Activation of silica materials with anatase towards degradation of organic compounds* K. De Witte, P. Cool, E. F. Vansant University of Antwerpen, Belgium
16:40 –16:45	*Optimization of carbon nanotubes growth on calgon granular activated*

	carbon and sorption properties of the composite material Ch. M. Veziri[1], G. Pilatos[1], E. Kouvelos[1], K. Kordatos[2], V. Rigopoulou-Kaselouri[2], N. K. Kanellopoulos[1] [1] National Center for Scientific Research "Demokritos", [2]National Technical University of Athens, Greece
16:45 –16:50	*Topotactic structural changes and coordinatively unsaturated metal sites on step-wise dehydration of a family of isostructural microporous framework compounds* P. D. C. Dietzel[1,2], R. E. Johnsen[2], R. Blom[1], H. Fjellvåg[2] [1]SINTEF Materials and Chemistry, [2]University of Oslo, Norway
16:55 –17:55	Poster Session IV (P47 – P59)
17:55–	Goodbye