

Scientific Program - i-SUP 2008, Innovation for Sustainable Production

Parallel Scientific Sessions

	Conference 1 Smart Materials for Sustainable Production Room 1	Conference 1 Smart Materials for Sustainable Production Room 2	Conference 2 Separation Technology, Technologies to control, recover and conserve industrial resources	Conference 3 Smart and Sustainable Electricity Systems	Conference 4 Industry and Living in an Urban Society	Conference 5 Environment, Health and Safety - Alternative testing: the future for safety testing
--	---	---	--	--	--	--

Tuesday, April 22, 2008

15:00 - 17:00	Registrations - Site of Old Saint-John's
18:00 - 19:00	Welcome and reception - Town Hall of Bruges

Wednesday, April 23, 2008

07:00 - 09:00	Registrations - Site of Old Saint-John's					
	Theme 4: Advanced surface treatments: eliminating solvents by dry processing	Theme 5: Controlling friction and preventing wear in industrial processing	Theme 3: Advanced Water Treatment	Theme 1: Distributed and Renewable Generation and the Impact on the Electricity System	Theme 1: Megasites for soil and groundwater contamination	Theme 1: Targeted toxicity testing
	<i>Chair: D. Vangeneugden / R. Rego</i>	<i>Chair: A. Helle / R. Persoons</i>	<i>Chair: H. De Wever</i>	<i>Chair: Wil Kling</i>	<i>Chair: H. Rijnaarts / L. Diels</i>	<i>Chair: D. Krewski / G. Schoeters</i>
09:00 - 09:30	Invited: Gary Messing, Penn State University (USA), "Key role of materials technology for sustainable development"	Invited: W. Verstraete, University of Ghent (BE), "Biometals for advanced water treatment"	Invited: R. Belmans, Catholic University of Leuven (BE), "The Road towards More Renewable Integration and Demand Side Integration"	Invited: H Rijnaarts, TNO (NL), "Risk based management of contamination at Megasites: teh Welcome project and the Port of Rotterdam"	Invited: D. Krewski, University of Ottawa, Canada, "Toxicity Testing in the Twenty-First Century: A Vision and a Strategy"	
09:30 - 09:50	A. Sonnenfeld, ETH (CH), "Fast plasma surface processing of powders"	L.P. Nielsen, Danish Technological Institute (DK), "Product embedded surface sensors integrated under wear resistant coatings"	D. Van Daele, Aqua Concept Benelux (BE), "Elimination of persistent organics from industrial waste water and contaminated ground water on th exapmle of EDTA"	G.J. Schaeffer, VITO (BE), "Drivers for and Dynamics of the Growth of Renewable and Distributed Energy Technologies in the Electricity Markets"	S. D'haene - L. Diels, DEC (NL) - VITO (BE), "Olympic gold at redevelopment megasites in old harbours"	P. McNamee, Procter&Gamble, Surrey (UK), "Recent Developments in the Colipa PT-SCAAT Eye Programme for the Development of In Vitro Alternatives"
09:50 - 10:10	A. Kagilik, TU Eindhoven (NL), "SiO2 dry etching with the Expanding Thermal Plasma Technique"	S. Achanta, Falex Tribology (BE), "Steps to efficient laboratory simulation of wear and lubrication issues in industrial components"	R.P.M. van der Steen, Niro Process Technology (NL), "Melt crystallization&wash column separation hazardous waste waters, purification organic chemicals"	J. De Decker, 3E (BE), "Generation of Synthetic Time Series of Wind Power and Prediction Error for Economic Calculations"	K. Gommers, Umicore (BE), "INSIMEP, a sustainable alternative for remediation of metal-contaminated groundwater?"	E. Adriaens, University Ghent (BE), "Different applications of the Slug Mucosal Irritation test in pharmaceutical preclinical drug development"
10:10 - 10:40	Coffee break and poster session - Site of Old Saint-John's					
	<i>Chair: G. Messing / D. Vangeneugden</i>	<i>Chair: P. De Baets / R. Persoons</i>	<i>Chair: W. Verstraete</i>		<i>Chair: H. Rijnaarts / L. Diels</i>	

10:40 - 11:00	J. De Strycker, ArcelorMittal (BE), "Implementing environmental friendly smart surfaces in steel sheet production"	R. Groenen, Bekaert (BE), "A novel form of hard hydrogenated amorphous carbon for tribologic applications"	M. Weemaes, Aquafin (BE), "Neptune: new sustainable concepts and processes for optimization and upgrading municipal WWTPs"	E. Peeters, VITO (BE), "Micro-CHP, Overview of Technologies and Markets"	S. Groudev, University of Mining and Geology (BG), "Multibarrier and mine site redevelopment' "	S. Constant - Epithelix Sàrl, (CH), "MucilAir: a Novel Human 3D Airway Epithelium Model for Long Term Toxicity Testing"
11:00 - 11:20	E. Benetto, Tudor (LU), "A comparative analysis of two industrial wet-coating processes and atmospheric plasma for metal passivation"	A. K. Basak, Catholic University of Leuven (BE), "Effect of nanostructuring and metallic alloying on the tribological properties of WC-12Co coatings"	C. Huyskens, VITO (BE), "A novel method for measuring the reversible and irreversible fouling propensity of MBR mixed liquor"	M.C. Alvarez, IDEA (FR) "Distribution Network Long-Term"Planning Methods Comparison With Respect to DG Penetration"	T. Ertel, SV-Büro Dr. Thomas Ertel (DE), "REVIT – revitalizing industrial sites. Towards more Effective and Sustainable Brownfield Revitalisation Policies"	J. Hooyberghs - CARDAM - VITO (BE), "A cell-based in vitro alternative to identify skin sensitizers by gene expression"
11:20 - 11:40	I. De Graeve, VUB (BE), "Comparison between wet and plasma deposition of silanes on metals for surface passivation"	Invited: I. Etsion, Technion (ISR), "Laser surface texturing"	I. Nopens, University of Ghent (BE), "Modelling of soluble microbial products in membrane bioreactors"	G. Mulder, VITO (BE), "System Integration of a Fuel-Cell Based CHP System"	D. Gysen, OVAM (BE) "Brownfield management of the Kempen area"	R. Roguet, L'OREAL (FR), "The use of the reconstructed human EPISKIN™ for the in vitro assessment of tolerance of chemicals"
11:40 - 12:00	G. Benveniste, Environment Park-Clean NT Lab (IT), "LCA comparative analysis of different technologies for functional coating in food applications"		A. Giesen, DHV (NL), "Experience with sustainable and cost-effective wastewater treatment using aerobic granules"	Questions and Discussion (moderator W. Kling, Technical University of Eindhoven (NL))	A. Peene - W. Dejonghe, OWS - VITO (BE), "Phytoremediation and land management"	H. Witters, CARDAM -VITO (BE), "In vitro assays for endocrine disruptors: test performance and steps to validation"
12:00 - 14:00	Lunch - Site of Old Saint-John's					
	Theme 4: Advanced surface treatments: eliminating solvents by dry processing	Theme 5: Controlling friction and preventing wear in industrial processing	Workshop on Sustainable Water Management for Industry	Theme 2: Intelligent Energy Storage	Theme 1: Megasites for soil and groundwater contamination	Theme 1: Targeted toxicity testing
	Chair: D. Vangeneugden / R. Rego	Chair: J.P. Celis / J. Meneve		Chair: Ph. Malbranche	Chair: H. Rijnaarts / L. Diels	Chair: H. Witters
14:00 - 14:20	G. Buyle, Centexbel (BE), "Functionalising textiles using environmental friendly techniques"	W. Ost, Ghent Univeristy (BE), "Evaluating self-lubricating materials for large scale bearings functioning under seawater conditions"		W. Kling, Technical University of Delft (NL), "The Need for Large-Scale Energy Storage in the Dutch Electricity System"	A. Dassargues, Université de Liege (BE), "Investigating the worth of flux-based approaches in development of brownfields"	J. Bressler, Kennedy Krieger Institute, Baltimore (USA), "Achieving The Goals Of Toxicity Testing In the 21st Century: The TestSmart Developmental Neurotoxicology Testing Program"
14:20 - 14:40	M. Dubreuil, VITO (BE), "Release / adhesion enhancement of polymeric substrates using Atmospheric Plasma Technology"	M. Rombouts, VITO (BE), "Low-friction coatings on elastomers"		J. Peças Lopes, INESC Porto (PT), "Multi-level Management of Electricity Storage"	B. Callaert, Envisan (BE), "A sustainable industrial, living and coastal development along the mediterranean Sea (Tunisia): 150 hectare remediation and development"	I. Selderslaghs, CARDAM - VITO (BE), "The Zebrafish embryo: an alternative model to screen for neurodevelopmental toxicity and teratogenicity of chemicals"

14:40 - 15:00	R. Morent, Ghent Univeristy (BE), "Medium pressure plasmas for surface modification"	R. Bayón, Tekniker (ES), "Corrosion-wear studies on PVD coatings for aeronautical applications"		P. Boer, KEMA (NL) "GROWDERS, Grid Reliability and Operability with Distributed generation using transportable storage"	T. Maene, Stad Gent (BE) "Brownfield Gasmeterlaan Ghent - A complex risk-based soil remediation in combination with an urban renewal project"	T. Vanhaecke, VUB (BE), "Histone deacetylase inhibitors as new tools to generate metabolic competent long-term cultures of primary hepatocytes"
15:00 - 15:20		W. Lauwerens, Sirris (BE), "Evaluation of surface treatments for high pressure die casting dies"		Thierry Brincourt, EDF (F), "Overview of energy storage from electric vehicle to renewable energy"	B. Yordi, European Commission, "A new EU programme on Eco-Innovation"	B.J. Blaauboer, IRAS - University of Utrecht (NL) INVITROM - The Dutch-Belgian Society for In vitro methods
15:20 - 15:50	Coffee break and poster session - Site of Old Saint-John's	K. Grinkevych, IPMS (UKR), "Progress in development of the Al eutectic alloys for preventing wear at elevated temperatures"	Coffee break and poster session - Site of Old Saint-John's	Questions and Discussion (Moderator Ph. Malbranche, INES (F))	Coffee break and poster session - Site of Old Saint-John's	Coffee break and poster session - Site of Old Saint-John's
		F. Mampaey, Sirris (BE), Oxygen activity measurement in cast iron as a method to improve ecological features of engines				

End of lectures at 16:00!

16:00 - 17:00	Poster Session
17:00 - 18:30	Free time
18:30 - 20:00	Walking dinner - Foyer of the Concert Hall
20:00 - 21:45	Official plenary session - Concert Hall
21:45 - 22:30	Concert by Liebrecht Vanbeckevoort - Concert Hall

Thursday, April 24, 2008

	Theme 3: Porous materials for environmental protection	Theme 1: Production and application of nanomaterials	Theme 2: Solvent filtration	Theme 3: Distributed Control and Demand Side Integration	Theme 3: Urban growth and economic development	Theme 2: Implemented test strategies in pharmaceutical, cosmetic and chemical product safety assessment
	Chair: R. Moreno / F. Snijkers	Chair: H. Verammen / A. Vanhulsel		Chair: H. Akkermans	Chair: G. Engelen	Chair: Ph. Vanparys - E. Annys
09:00 - 09:30	Invited: J. Huskens, University of Twente (NL), "Nanomaterials for bottom-up manufacturing"	Invited: A. Livingston, Imperial College (UK), "Organic solvent nanofiltration, emerging technology for molecular separations"	Invited: N. Hadjsaid, "The Electricity and Communication Network: Combining two Critical Infrastructures"	Invited: E.R. Gutierrez, University of Puerto Rico (Puerto Rico), "The political process required implementing a spatial decision support system for Puerto Rico"	Invited: Ph. Vanparys, CARDAM (BE) "Alternatives for predictive toxicology in drug development: nice to have or added value?"	

09:30 - 09:50	Q. de Radiguès, UCL (BE), "Environmental applications of low-cost porous electrodes : electro-recovery and electro-catalysis"	F. Luizi, NANOCYL (BE), "Reduction of global warming potential of conductive nanocomposites using carbon nanotubes as filler"	D. Ormerod, Johnson&Johnson, "Applications of organic solvent nanofiltration in the process development of active pharmaceutical ingredients"	A. Mercurio, Sapienza University of Rome (IT), "Open Source Implementation of Monitoring and Controlling Services for EMS/SCADA Systems by Means of Web Services"	P. Giordano, University of Lugano (CZ), "A mathematical model of complex mobility patterns for big traffic generators competition and sustainability"	C. Krull,- IVTIP (NL), "The applicability of in vitro projects for product safety assessment: experiences of the in vitro industrial platform IVTIP"
09:50 - 10:10	I. Santacruz, CSIC (ES), "Manufacture of porous cordierite samples using gelcasting of polysaccharides"	L. Zajickova, Masaryk Univ. (CZ), "Deposition of carbon nanotubes in microwave torch and their application"	K. Jevons, Koch Membrane Systems (UK), "Nanofiltration technology removes non biodegradable API's from aqueous & organic solvent mixture"	D. Cohen, Infotility (USA) and René Kamphuis (ECN), "Trans-Atlantic Perspectives on Management of Renewables and DER on the Electricity Grid"	H. Van der Kwast, VITO (BE), "Evaluation of spatial metrics derived from remote sensing at different levels of abstraction for the calibration of urban land use change models"	B. J. Blaauboer, IRAS, Utrecht University (NL), "Risk assessment: does it need redefinition? "
10:10 - 10:40	Coffee break and poster session - Site of Old Saint-John's					
10:40 - 11:00	R. Moreno, CSIC (ES), "Design of alumina bodies with directional porosity by a freeze-casting method"	A. Malesevic, VITO (BE), "Microwave plasma enhanced chemical vapor deposition synthesis and applications of few layer graphene"	F. P. Cuperus, SolSep (NL), "Membrane processes for regeneration of organic solvents and valuable components"	P. Stijns, Honeywell (BE), "Energy Management of a Hospital with Tri-Generation"	G. Vos - L. Van Esch, VMM - VITO (BE), "The Emission Inventory Water, a Planning Support System aimed at reducing the pollution emissions in the water bodies of Flanders"	E. L. Roggen, Novozymes (DK), Progress towards novel testing strategies for in vitro assessment of allergens
11:00 - 11:20	B. Coto, Tekniker (ES), "Absorption of biolubricant oxidation products in nanoporous material"	P. Van Der Voort, Ghent University (BE), "Hybrid and non siliceous ordered nanoporous materials; synthesis, applications and challenges"	V. Meynen, VITO (BE), "Study on the synthesis and stability of hybrid organic-inorganic membranes for solvent filtration"	B. Roossien, ECN (NL) "Congestion Management by a Virtual Power Plant of 10 Micro-CHP Units at Consumer Premises"	R. White, University of Newfoundland (CA), "Cities as Dynamic Adaptive Structures"	S. Verstraelen, VITO - CARDAM (BE), "A network-based gene profile analysis of respiratory sensitizing and non-sensitizing chemicals in a human macrophage model"
11:20 - 11:40	J. Luyten, VITO (BE), "Porosity as a contributor to solutions for sustainable production"	M. Van Bael, Hasselt University (BE), "Totally water-based synthesis routes to nanostructured metal oxides with electronic applications"	K. Ebert, GKSS Research Centre Geesthacht (DE), "Polymeric nanofiltration membranes for the application in organic solvents"	T. Tran Quoc, Institut de L'Electricité de l'Avenir IDEA (FR), "Load Management by Optimising Operations of Radiators"	J. Borsboom, MNP (NL), "Land use modelling for environmental and ecological policy assessment"	J. Jaworska - Procter & Gamble, Brussels (BE), "Overview of integrated test strategies methods in application to in vitro data-industry experience"
11:40 - 12:00	E. Lippens, Ghent University (BE), "Gelatin and hydroxyapatite cell delivery systems in bone tissue engineering"	S. Put, Umicore (BE), "Nano-sized oxide powders for UV applications"	J. Vente, ECN (NL), "Performance of a new hybrid membrane in high temperature pervaporation"	Questions and Discussion (moderator H. Akkermans, Free University of Amsterdam (NL))		B. Hall, L'OREAL (FR), "Safety evaluation of cosmetic products in the 21st century"
12:00 - 14:00	Lunch - Site of Old Saint-John's					
	Theme 2: Biomaterials for improved quality of life	Theme 1: Production and application of nanomaterials	Theme 2: Solvent filtration	Theme 4: Power electronics for a smart distributed electricity system	Theme 4: Urban growth and air pollution	Theme 3: The regulatory Arena: challenges in method acceptance
	Chair: E. Schacht / S. Mullens	Chair: J. Mullens / C. Van Haesendonck / F. De Schutter	Chair: A. Buekenhoudt	Chair: Philip Strauss	Chair: K. De Ridder	Chair: V. Rogiers - E. Anklam

14:00 - 14:20	E. Schacht, Ghent University (BE), "Biodegradable scaffolds for tissue engineering prepared from crosslinkable precursors"	L. Giorno, ITM-CNR (IT), "Membrane emulsification for the micromanufacturing of micro- nano-particulates and their application"	B. Van der Bruggen, Catholic University of Leuven (BE), "Solvent flux behaviour and rejection characteristics of hydrophilic and hydrophobic TIO2 and ZrO2 membranes"	A. Van Voorden, Eneco Netbeheer (NL), "Solving Network Constraints with DG and FACTS Devices: a Case Study"	Invited: C. Borrego, University of Aveiro (PT), "Towards sustainable cities – linking urban structure and air quality"	V. Rogiers, VUB - Brussels (BE), "How good are validated methods to predict toxicity of different substances and products?"
14:20 - 14:40	S. Mullens, VITO (BE), "Processing and characterization of porous scaffolds for bone regeneration"	L. Devriese, VUB (BE), "A new generation of hierarchical structured materials with high adsorption capacities and shape selectivity"	J. L. C. Santos, Universidade Nova de Lisboa (PT), "Modelling of solvent nanofiltration by mechanistic, chemometric and hybrid methodologies"	P. Heskes, Technical University of Eindhoven (NL), "A Complex Harmonic Impedance Measurement System for Reduction of Harmonics in the Electricity Grid"		R. Curren Institute for in vitro Science, Gaithersburg (USA) Current Status Of A Novel Genotoxicity Assay Using A Three-Dimensional Human Skin Model, EpiDermTM
14:40 - 15:00	G. Kerckhofs, Catholic University of Leuven (BE), "Validation of X-ray micro-CT as screening tool for bone tissue engineering scaffolds"	Yu.V. Milman, IPMS (UKR), "Production of high-strength aluminum alloys reinforced by nanosize quasicrystalline particles"	J. F. M. Denayer, VUB (BE), "Chabazite : a zeolite allowing selective adsorption of short chain alcohols"	A. Vanden Bossche, Ghent University (BE), "Top of Sine Injection into the Grid"	T. Nawrot, KUL (BE) "Exposure and health effects of urban air quality"	M. Liebsch , Federal Institute for Risk Assessment (BfR), ZEBET, Berlin (DE) "Scientifically validated for a specific purpose" should be the end - not the beginning of the road to
15:00 - 15:20	M. Köhl, Fz-Jülich (DE), "Near-net-shape fabrication of porous NiTi: Use as implant materials and energy-absorbers"	J. De Messemaeker, Umicore (BE), "Development of a nano-sized abrasive for advanced polishing applications in IC manufacturing"	M.G. Buonomenna, ITM-CNR (IT), "Solvent-Free Oxidation of Primary Alcohols to Aldehydes using membrane contactors"	J. Van den Keybus, Triphase (BE), "Integrated Grid-Coupled Power Electronic Energy Converter System Using a PC-based Controller"	L. Int Panis, VITO (BE), "Current and future air quality in the historic city of Bruges"	J. Scheel, Human Safety Assessment - HENKEL (DE) "Regulatory acceptance and implementation of 3R approaches. Activities of the European Partnership for Alternative Approaches to Animal Testing (EPAA)"
15:20 - 15:50	Coffee break and poster session - Site of Old Saint-John's					
	Theme 2: Biomaterials for improved quality of life	Joint session conf.1, theme 3 and conf.2, theme 1			Theme 4: Urban growth and air pollution	
	Chair: H. Buchkremer / S. Mullens	Chair: A. Buekenhoudt			Chair: C. Mensink	
15:50 - 16:10	G. Merle, Univ. Montpellier (FR), "Biofuel cells: An alternative method for energy production?"	K. Wyns, VITO (BE), "Zeolitic-nanoblock membranes"		P. Van Tichelen, VITO (BE), "Power Line Modem Communication as a Backbone for Smart Grids"	N. Blond, University of Strassbourg (FR), "Study of air pollution dispersion in a street: case of a street in Ho Chi Minh (Vietnam)"	P. Van Hummelen, VIB - KULeuven (BE) - Current state-of-the-art of genomics in toxicology
16:10 - 16:30	F. Freitas, REQUIMTE/CQFB (PT), "New microbial galactose-rich polysaccharide produced from glycerol: properties and applications"	T. Van Gestel, Fz-Jülich (DE), "Manufacturing of microporous ceramic membranes for environmental applications"		B. Renders, Ghent University (BE), "Voltage Dips and Converter-Connected Distributed Generation Units"	P. Vanderstraeten, Bruxelles Environnement - IBGE (BE), "Evaluation of car free days on air quality in Brussels"	I. Nobels, UA, Antwerpen (BE) "In vitro mechanistic toxicology: what can it offer to ecotoxicology?"

16:30 - 16:50	A.W. Van Vuure, Sirris (BE), "Natural Fibre Composites; recent developments"	A. Kovalevsky, VITO (BE), "Development of multilayered ferrite-based ceramic membranes for partial oxidation of hydrocarbons"	J. Driesen, Catholic University of Leuven (BE), "Virtual Synchronous Generators"	K. Van Weverberg, KUL (BE), "Modeling the contribution of the Brussels heat island to a long temperature time series"	E. Anklam JRC (I) - Action plan of the EC's Joint Research Centre to support validation of alternative test methods
16:50 - 17:10	M. Sharifzadeh, Islamic Azad Univ. (IR), "A mathematical model for citric acid production from date pomad by Aspergillus niger"	M. Barboiu, Institut Europeen des Membranes, Montpellier (FR), "Constitutional transcription of nucleobase self-assembly codes in functional hybrid materials"	Questions and Discussion (Moderator Ph. Strauss, ISET (DE))	K. Van de Vel, VITO (BE), "UAQ forecasts & PROMOTE"	E. Annys - CEFIC (BE) - REACH, more sustainable chemistry with more sustainable testing?

19:30 - 22:30 Old Flemish Banquet in Bruges - Homebrewery "De Halve Maan"

Friday, April 25, 2008

	<i>Theme 2: Biomaterials for improved quality of life</i>	<i>Theme 6: Looking at materials at the nano-scale</i>	<i>Theme 1: Next generations membranes</i>	<i>Theme 5: The market environment and regulatory challenges</i>	<i>Theme 2: Sustainable industrial cooperation through local and regional clustering</i>	<i>Theme 4: Industrial Centres of Excellence in in vitro services: Who does what?</i>
	<i>Chair: M. Hendriks / M. Snel</i>	<i>Chair: S. Kuypers / R. Persoons</i>	<i>Chair: I. Genné</i>		<i>Chair: G. Van Eetvelde / W. van Aerschot</i>	<i>Chair: K. Schroeder / B. De Wever</i>
09:00 - 09:30	Invited: Marc Hendriks, DSM (NL) "Materials Science, an enabling technology for regenerative medicine"		Invited: E. van de Sandt, DSM (NL) "Membranes in bioprocess technology"	Invited: Pier Nabuurs, CEO KEMA + Chairman Committee of the EU Technology Platform Smart Grids (NL), "The Importance of Markets for the Emergence of Smart Grids"	Invited: G. Van Eetvelde, University of Ghent (BE), "Balancing eco-industrial parks"	Invited: K. Schroeder, Phenion GmbH & Co. KG (DE), "The application of epithelial models in toxicology to predict of toxic effects"
09:30 - 09:50	J. Schrooten, Catholic University of Leuven (BE), "Scaffolds for bone tissue engineering: design, production and evaluation"	Shengbin Lei, Catholic University of Leuven (BE), "Two-dimensional surface-confined nanoporous molecular networks at the solid-liquid interface: a scanning tunneling microscopy study"	M. Barboiu, Institut Europeen des Membranes, Montpellier (FR), "Hybrid bioinspired membranes: past, present and beyond..."	A. Woyte, 3E (BE), "Trans-European Trade of Winnd Power in the Internal Electricity Market"	Ph. Tavernier, POM West-Vlaanderen (BE), "Addressing the barriers of sustainable business corporation: the alternative triple-P"	Bart de Wever, CARDAM (BE), "The Centre for Advanced Research and Development of Alternative Methods (CARDAM): a new platform on alternative toxicology testing to meet the needs of industry and legislation"
09:50 - 10:10	M. Köhl, Fz-Jülich (DE), "Dental Implants with biocompatible and bioactive coatings "	R. Vitchev, VITO (BE), "Growth mechanism of graphene layers deposited by microwave plasma enhanced CVD"	V.R. Eisner-Schadler, A&F - Wageningen UR (NL), "Membrane Emulsification: From Basics to Business"	Pablo Frias, University Comillas, Madrid (ES), "Regulatory Changes Needed for Optimal Integration of DER and RES"	F. Frenquellucci, ENEA (IT), "The sustainable management, locating and settling of the productive areas"	M. Willuhn LRI - CEFIC Brussels (BE), "Alternative Methods for Safety Testing of Chemicals Activities of Industry"
10:10 - 10:40	Coffee break and poster session - Site of Old Saint-John's					
	<i>Chair: J. Schrooten / M. Snel</i>					

10:40 - 11:00	M. Ravelingien, VITO (BE), "Local drug delivery from bone implants"	N.T.M. Hai, Catholic University of Leuven (BE), "The self-assembly and reactivity of porphyrin molecules at copper/ electrolyte interfaces: a potentiodynamic electrochemical scanning tunneling microscopy study"	Y. Medina-Gonzalez, Laboratoire de Génie Chimique - Toulouse (FR), "Green ultrafiltration membranes"	M. ten Donkelaar, Enviros (CZ), "The Influence of Promotion Policies for Renewables and Distributed Generation on their Integration in the Electricity System"	W. Van Aerschot, VITO (BE), "Sustainable industrial networks: a study of 4 cases of sustainable industrial cooperation in Europe"	R. Cortvrindt, Eggscentris (BE), "EggCentris, Centre of excellence for reproductive function testing, focuses on innovative in vitro bioassays"
11:00 - 11:20	T. Mattheys, Catholic University of Leuven (BE), "Porous titanium coatings through electrophoretic deposition of particle stabilized emulsions"	S. Kuypers, JEOL (BE), "Atomic scale elemental analysis with Cs-corrected STEM"	P. Vandezande, K.U.Leuven (BE), "Compositional optimization of SRNF membranes cast from emulsified polyimide solutions, using high throughput and combinatorial techniques"	Koen Kok, Free University of Amsterdam (NL), "Business Models for Optimal Integration of Distributed and Renewable Generation"	S. Kumra, NIR (SE), "Sustainable industrial cooperation through local and regional networking in Indian Sugar Industry"	R. Curren, Institute for in vitro Science, Gaithersburg (USA), "How a Non-profit Institute successfully combines in vitro testing services with an education program"
11:20 - 11:40	P. Heyse, VITO (BE), "Organic coatings using atmospheric pressure dielectric barrier discharge: En route for a straightforward manufacture of bioactive films"	A. Dos Santos, Ghent University (BE), "Novel development in electrospinning technology for biomedical applications: bringing a lab curiosity to a pre-pilot scale"	C. Casado, University of Zaragoza (ES), "ETS-10-polymer membranes for gas separation: control of filler morphology and particle size"	H. Jacobsen (Risoe), "Measures to Reduce the Impact Costs of an Increasing Share of Intermittent RES-E in the Electricity Generation"	L. Hens, Human Ecology - VUB (BE), "A university centre for cleaner production in Cienfuegos (Cuba)"	R. Guest, Saphefarm (UK) "In Vitro Testing in Contract Research: A Valid Alternative ?"
11:40 - 12:00	G. Messing, closure		I. Genné, closure		Questions and Discussion (F. van Oostvoorn) G.J. Schaeffer, closure	G. Schoeters, closure
					E. Smidt, SG Consultancy and Mediation (NL), "Importance of communication for sustainable groundwater management." W. van Aerschot, closure	
12:00 - 14:00	Lunch - Site of Old Saint-John's					