



May 20-23, 2012, Rolduc Abbey, Kerkrade, Netherlands
 Info and registration at: www.rolducpolmeeting.org

CONCEPT PROGRAMME

Sunday, May 20

16.00	Opening Registration Desk
18.30	Welcome
19.00	Dinner
20.30	Informal Get-together in Abbey Wine Cellar

Monday May 21

9.15 Opening by the Chairman

F. Kuijpers, General Manager SABIC I&T; Opening Address

9.45 Session: Sustainability in Polymers

J. Watkins	U Massachusetts; Convergence of self assembly and Printing Technologies for Sustainable Fabrication of Nanotechnology-enabled Devices
R. Mülhaupt	U Freiburg; From Graphite to Graphene: new carbon materials, sheet-coil polymers, nanocomposites and 3-D printing
F. Varghese	CEO Kerala State Ind; Coir polymer composites and Biodegradable Fiber with potential chemical properties and tangible industrial applications
R. Gross	CTO SyntheZyme & NY PolyTech; Enzyme-catalysis ever expanding role in polymer science
A. Greiner	U Marburg; Bacteria in Plastic Bag-towards living polymer composites

13.30 Session Polymer Chemistry: "creating sustainability"

H. Frey	U Mainz; New structures based on polylactide and polyglycolide
R. Duchateau	SABIC; Catalytic Ringopening Polymerisation of renewable Macrolactones to high Mw Polyethylene-like Polymers with Tuneable Functionalities
A. Kühne	DWI-Aachen: Towards Colloidal Self-assembly of Conjugated Polymer Materials
T. Junkers	U Hasselt; Nitrones in radical polymerisation: Facile access to functional materials with well-defined macromolecular architecture.
B. Noordover	TU Eindhoven: Step-growth polymers from biomass: new monomers, new routes, new challenges
K. Nazir	UT Mara; Preparation and Characterisation of Epoxidized 30% Poly(methyl Methacrylate) grafted Natural Rubber

- M. Ghaemy PCR Babolsar, Assymetric Novel Poly(ether-imide)s
 S. Agarwal U Marburg: Functional Degradable and Biocompatible Polymers for Biomedical Applications
 S. Karanam SABIC-IP: Sustainability and Life Cycle Assesment at SABIC: Opportunities and Challenges

Special Lecture

M. Möller, DWI&P.J.Lemstra, Eindhoven; Biobased Polymers at Chemelot

18.00 Reception

18.30 Dinner

20.00-23.00 Posterbar

Tuesday May 22

8.30 Session: Processing “towards Sustainability”

- H. Heinz Akron: Nanomechanics and Dispersion of Layered Silicates in Polymer Matrices: Moduli, Cleavage Energy, and Free Energy of Exfoliation
 A. Mouran DWI; Hierarchies and Cooperativity in two-dimensional Conjugated Systems
 I. Chodak Bratislava: Crosslinked blends and composites with biodegradable plastic matrix
 J. Chen IPF Dresden: Formation and development of supermolecular structure of beta-nucleated iPP under different shear and thermal treatments investigated by in situ synchrotron WAXS and SAXS
 W. Radke DKI Darmstadt: Chromatographic Separations of PLAs by Stereochemical Composition
 J. Stellbrink FZ Jülich: Neutrons for Green Polymers: Structural analysis of polymerisation reactions via real-time scattering techniques
 K. Remerie SABIC: Efficient product design by Self-consistent Field Simulation of the Equilibrium Morphology of PP Impact Copolymers
 J. Raquez U Mons; From the self-assembling concept to the design of carbon nanotube/poly(L-lactide)-based (nano)composites.
 A. Siebert-Raths U Hanover; Specialties of the processing of PLA through extrusion and injection molding, and resulting characteristics
 S. Frerich RU Bochum; Biopolymer foams
 B. Muralidharan Dubai: An Investigation on the impact of azeotropic solvent mixture pre-treatment on the fibre composite of a natural and synthetic origin
 P. Lohmeijer TU Eindhoven: Stress-induced crystallization of PLA
 R. Janssen DSM; Stabilization without the use of stabilizers: A mechanical engineering approach towards new thermo-oxidation resistant polyamide 46 and 66 grades with 10-fold life time increases
 H. Haddad Melbourne; Optimization of mechanical properties for MMA-Styrene-unsaturated polyester resin used as a binder in polymer concrete for manufacturing precision tool machine base

10.45 Session Bio-Made and BioMedical Polymer Materials

- I. Alig DKI-Darmstadt; PLA-based Biodegradable and Cytocompatible Implant Materials: Material Development, Processing and Properties

F. Ciardelli	SPIN-PET; Optical Behaviour of Biopolymeric Materials with Organic Chromophores.
F. Stelzer	Graz: Functional Polymeric Materials for Biomedical applications
M. Bähr	U Freiburg: Green Non-isocyanate Polyurethanes based upon renewable resources
S. Thyagarajan	Renewable rigid Diamines, Efficient Stereospecific Synthesis of high-purity Isohexide (di) Amines
X. Hillewaere	U Gent: Development of optimized autonomous self-healing systems for epoxy materials
J.van Soest	RODENBURG Biopolymers; Flourplast: Creating new opportunities for bioplastic Industry. Process structure property relationships of a novel bioplastic polymer system
A.Walther	Aachen; Biomimetic Water-borne High-Performance Materials
G. Gobius du Sart	Biochem; Natural Acid-based Polyesters and Polycondensates; Industrial Production & Durable Performance
O.van den Berg	U Gent: Bio-based sulfur-containing thermoplastics; a new class of polymeric material.
N. Belcheva,	COVIDIEN; Supercritical CO ₂ Technology for Development of Novel Materials for Soft Tissue.
A.Soni	New Delhi, Preparation of Nanocomposite of PVA-Starch Blend Using Potato and Its Characterization
K. Priya	Velore: Biodegradability of cellulose microfibril/poly(ethylene-co-vinyl acetate) composites
M. Sahid	Faisalabad; Modification of carbohydrates based biopolymer
N. Pisutpaisal	Bangkok: Impact of Glucose Co-carbon on the Biosynthesis of Polyhydroxybutyrate from Glycerol.....

20.00 Conference Dinner

Wednesday May 23

8.30 Session Sustainable Applications

W.De Jeu	Aachen: Order, Disorder and Strain in Liquid Crystalline Elastomers
J. Wang	BOREALIS; Clarifiers from sustainable source: application and performance in polypropylene
S. Kucharski	PWR Wroclaw: Polymeric Materials formed as Nanometer Dimension Structures
R. Perez	DSM: Flammability and Flame Retardancy of Engineering Plastics - DSM Route Towards New halogen-free Flame Retardant Thermoplastic Products
B. Holmes	
S. Dinc	TriethanolamineFunctionalized monodisperse Reactive Beads as a stationary Phase for Hydrophilic Interaction Chromatography.
R. Goschke	Atomicforce; AM-FM and Loss Tangent Imaging – Two new tools for quantitative nanomechanical properties
C. van de Weele	SABIC-IP: Sustainable and environmentally friendly Polyester and Polyester /Polycarbonate Resins
K. Poouthree	Bangkok; Determination of hexavalent chromium from plastic food packagings
R. Stepanyan	DSM; Dynamics of an electrically charged polymer jet: a scaling approach
V. Vailikhit	Kasetsart; Pt-nanoparticles with PEDOTS:PSS-a mixture conductive to being an effective replacement for Pt counter-electrodes in DSSC
M. Debije	TU Eindhoven; Light control using liquid crystals
S. Laya	Dubai; A study on the phys-chem modification of polyethylene Terephthalate fabrics

A. Nikje IKIU, Recovery of Bisphenol-A from CD wastes using nanoclay as a catalyst support

12.30 Lunch

13.15 Session Polymers and Energy

N. Grossiord TNO-Holst: All Inkjet-printed Organic Polymer Photovoltaic Cells
 R. Yerushalmi Carbon Nanotubes/Fullerenes/Conjugated Polymer Microfibers for Bulk Heterojunction Solar Cells
 J. Kallitsis Side chain Crosslinking of Aromatic Polyethers for High Temperature Electrolyte Membrane Fuel Cells (HT-PEMFCs)
 K. Nijmeijer U Twente, Design strategies for polymer membranes for Blue Energy
 S. Rathgeber Koblenz: Correlation between Polymer Architecture, Mesoscale structure and Photovoltaic Performance in PAE-PAV: fullerene bulk-heterojunction solar cells
 P. Van Rijn Aachen: Surface Modifications of Electrode Materials via Aqueous e-ATRP
 C. Peek SABIC-IP; Environmental Value Proposition of Stainless Steel Fiber Modified Compounds for Electromagnetic Shielding
 K. Sharma SABIC-IP: Post Consumer Recycle based Noryl Engineering Thermoplastics Product Portfolio for Electronic and Electrical Applications Challenges in Qualification of open-loop Post-consumer recycling PST
 A. Saxena Modification of PEO based Ion Conducting Polymer Electrolyte
 W. Phetwarotai Bangkok, Nucleating Effects on Nonisothermal Crystallization of Polylactide Biodegradable Blend Films
 R. Najjar Tabriz; Synthesis and Application of Coumarin End Capped PEG-b-PMMA Copolymers in Preparation of Light Responsive Nanoparticles
 O. Mukbanian Tiblizi: Ion conductivity of Comb Polysiloxane Polyelectrolytes containing Propyl Acetoacetate Side Chains

16.30 Farewell

Posters for POSTERBAR discussions

P. Altenbuchner Cobalt catalysts for the copolymerization of CO₂ and epoxides
 S. Kissling Binuclear Zinc catalysts for the copolymerization of CO₂ and epoxides
 K Van de Wetering The role of Polycarbonate Copolymers in Design for Sustainability
 W.Radke Chromatographic Separations of Cellulose Derivatives by Degree of Substitution
 N.Kutsevol Synthesis and Characterization of Silver Colloid Nanoparticles Using Water-Soluble Branched and Linear Polymer Matrices
 S. De Smet Combining step growth polymerization and RAFT polymerization for the synthesis of renewable segmented polymer structures
 M. Ghaemi Synthesis and Properties of Wholly Aromatic Polyimides Derived from a Novel Diamine Containing Carbazole and Imidazole Moieties in the Main Chain
 O. Ogbobe Biodegradable Polymer Drilling Mud Developed From Guinea Corn
 P. Anyanwu Biodegradable Polyethylene Chitosan and Polyvinylalcohol Composite
 J.Kallitsis Synthesis of copolymeric and hybrid-polymeric materials with electron donor-accepting properties
 O. Mukbanian A new Polysiloxane based Cross-linker for Solid polymer electrolytes
 S. Zielinska Micro- and Nanostructuring of Chiral Polyurethane bearing azobenzene moiety by means of electrospinning process
 S. Lamouri Electric characterization of conducting polyaniline thin film
 E. Broekaert Colour space for post-consumer recycles Materials
 L. Jarecki Modelling of melt drawing by supersonic air jet in the Laval nozzle
 V. Karande Preparation of Cellulose Nanowhiskers from Cotton fibers and its Application in Biopolymer Composites to enhance their Performance

- N. Savadekar Improvement in Functional Properties of Carregeenan/Nano-Cellulose Fibre (NCF) Nanocomposite films
- M. Mouzali Evaluation of shrinkage-strain in dental composites
- M. Rutkowska New Polyurethanes for Medical Applications
- F. Ozdemir Multilamellar Polymersomes ????
- R. Rulkens Effects of amide distribution in polyamide isomers on their melting point.
- B. Aleksandra Mechanical properties of PLA nanoloaded films
- G. Agrawal Water-soluble Poly(ethoxysiloxanes) for Design of Micrgel/SiO₂ Hybrid Colloids
- S. Chisca From blending polyamidic acids with lithium chloride (LiCl) to porous polyimide structures
- C. Constantin Polymer blends based on fluorineted polyimides
- R. Abdelkader New Synthetic Method For prepared Organo Soluble Polyaniline Using Montmorillonite (Maghnite-H⁺) With Oxidant (solid) And Water in the Normal Condition
- M.Er-Rafic Efficiency of Antimicrobial Modified Hyperbranched Polyethyleneimine Polymers analogous with different Microstructures
- M. Er-Rafic Antimicrobial Layer-by-Layer Coating based on Modified Hyperbranched Polyethyleneimine
- M. Deyab Study of cationic surfactant- neutral polymer association and its effect on the naphthenic acid corrosion
- L. Tsarkova Particle-stabilized PDMS emulsions as templates for thermostimulable capsules and coatings
- M. Tasdemir Effects of particle size on mechanical, thermal and morphological properties of nano and micro calcium carbonate powder [CaCO₃] filled HDPE polymer composite
- A. Hasim The dielectric properties for (PVC-NiNO₃) Composites
- S. Singhr Redox-sensitive Nanogels for Targetted Delivery of Proteins
- S. Naserian Investigation of neighbour group effects in releasing of 5-aminosalicylic acid from Acrylic Polymeric Prodrugs
- H Bakshi Dextran-graft-poly(hydroxyethyl methacrylate) gels: A new biosorbent for fluoride removal of water

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