SUNDAY, JUNE 13, 2010

SESSION 1: Synthesis and Properties – Part I
DISCUSSION LEADER: Dennis W. Smith, Jr.(Dallas University, USA)

2:00 pm **REGISTRATION DESK OPENS**, [Registration desk will remain open throughout meeting]

3:00 pm **OPENING REMARKS by CONFERENCE CHAIRS**
Bruno Ameduri (Inst Ch Gerhardt, Montpellier, France) and **Dennis W. Smith, Jr.** (Dallas University, USA)

3:30 pm **Dr. Werner M. A. Grootaert** (Dyneon Research, USA)
Tutorial on Synthesis, Properties and Applications of Fluoropolymers.....**1**

4:15 pm **Prof. Hideo Sawada** (Univeristy of Hirosaki, Japan)
Fluoroalkyl End-capped Oligomers Possessing Nonflammable and Flammable Characteristics in Silica Gel Matrices…….……**2**

5:00 pm **Prof. Marek W. Urban** (The University of Southern Mississippi, USA)
Colloidal Fluoromethacrylate Copolymer Nano-Particles and Their Role in Self-Repairing of Coalesced Films……..……..….**3**

5:45 pm **END DAILY SESSION**

6:30 pm **WELCOME RECEPTION and DINNER**

MONDAY, JUNE 14, 2010

SESSION 2: Synthesis and Properties - Part I
DISCUSSION LEADER: Kenneth J. Wynne (Virginia Commonwealth University)

8:00 am **Prof. Valter Castelvetro** (University of Pisa, Italy)
Hierarchically Structured Films with either Surfaces or Bulk Morphology Patterned by Fluorinated Latex Particle…….**4**

8:40 am **Prof. Sabine Beuermann** (University of Potsdam, Germany)
Homogeneous Phase polymerizations of vinylidene fluoride in supercritical carbon Dioxide…….**5**

9:10 am **Prof. Alessandro Galia** (University of Palermo, Italy)
Free Radical Copolymerization of Vinylidene fluoride and Acrylic acid in Supercritical Carbon dioxide……**6**

9:40 am **Prof Mustapha Raihane** (University of Marrakech, Morocco)
Advances in Radical Copolymerization of Fluorinated Monomers with Cyano comonomers: Synthesis, Characterization, and Properties…….**7**

10:10 am **BREAK**

10:30 am **Prof. Georges Kostov** (Burgas University, Bulgaria)
Novel Telechelic Poly(VDF-co-PMVE) Diacrylate Copolymers: Synthesis, Properties and Crosslinking……..**8**

11:00 am **Dr John Schmidhauser** (Arkema company, USA)
Two-Step Polymerization Process For Fluoropolymer-Acrylic Hybrid Latex Used In Waterborne Applications…….**9**

11:30 am **Dr Sylvie Boileau** (CNRS, France)
Novel Interpenetrating Polymer Networks Based on Fluorinated Precursors……**10**

12:00 pm **Prof. Harry R. Allcock** (The Pennsylvania State University, USA)
The Role of Fluorine in the Stabilization of Phosphazene High Polymer…….**11**

12:40 pm **End of Morning Session**

12:45 pm **LUNCH**

SESSION 3: Coatings and Surfaces
DISCUSSION LEADER: Dr Paul Resnick (FluoroScience, USA)

2:00 pm **Prof. Kenneth J. Wynne** (Virginia Commonwealth University, USA)
Novel Surface Science from Versatile Homo and Co-polyoxetanes ……**12**

2:40 pm **Dr Brian Hutchinson** (Raindance Company, USA)
Fluorinated Block Copolymers for High Performance Surfactants Enabling Droplet Technologies……**13**

3:10 pm **Prof. Keiji Tanaka** (Kyushu University, Japan)
Surface Segregation of Hyper-branched Polymers with Fluoroalkyl End groups…….....**14**

3:40 pm **Prof Armand Soldera** (Sherbrooke University, Canada)
Multi-scale Approach to the Study of Fluoropolymers……**15**

4:10 pm **BREAK**

4:30 pm **Prof. Atsushi Takahara** (Kyushu University, Japan)
Molecular Aggregation States and Surface Properties of Polymers with Fluoroalkyl Side Chains……**16**

5:10 pm **Prof. Krishna Kumar** (Tufts University, USA)
Chemical Biology Using the 'Non-Stick' Properties of Fluorinated Biomolecules……**17**

5:40 pm **Pr Frédéric Guittard** (University of Nice, France)
Biomimetic Approach to Build-up Supersurfaces……**18**

6:10 pm **DAILY SESSIONS END**

6:30 pm **POSTER SESSION**

7:30 pm **DINNER**

TUESDAY, JUNE 15, 2010

SESSION 4: Photonic, Optical, and Electronic Applications
DISCUSSION LEADER: Dr Rudy DAMS (3M Company, Belgium)

8:00 am **Prof. Walter Navarrini** (Politecnico di Milano, Italy)
Poly(tetrafluoroethyleneperoxides) as Useful Intermediates for the Preparation of Novel Fluorinated Materials for Optical Applications.……...……...…….……**19**

8:40 am **Prof. Yoshi Okamoto** (Polymer Research Institute, Polytechnic Institute of NYU, USA)
Copoymer of Methyl methacrylate with Fluoro alkyl and Aryl methacrylates. A Strong Interchain Interaction Between Methyl Ester and Fluoro groups…….……...**20**

9:10 am **Prof. Yasuhiro Koike** (Keio University, Japan)
Recent Low-loss and High Bandwith Fluoropolymers Optical Fibers…….**21**

9:40 am **Prof. Dennis W. Smith, Jr.** (Dallas University, USA)
Recent Advances in the Step-Growth Polymerization of Aromatic Trifluorovinyl Ethers..**22**

10:10 am **BREAK**

10:30 am **Prof. Kunio Kimura** (University of Okayama, Japan)
Thermally Induced Solid-state Synthesis of Fluorine-containing Poly(ether oxadiazole) .**23**

11:10 am **Dr Anindita Ghosh** (Leibniz-Institut für Polymerforschung Dresden, Germany)
Semi-fluorinated Poly(arylene ether)s and Poly(ether imide)s with Anthracene Moiety in the Main Chain..……..…..……**24**

11:40 am **Prof. Susanta Banerjee** (Indian Institute of Technology, India)
Semi-fluorinated Hyperbranched Poly(arylene ether)s.……...**25**

12:10 pm **Prof. Chad Booth** (Texas State University, USA)
Polyimide Nanocomposites for Gas Separation Membranes……..**26**

12:40 pm **End of Morning Session**

12:45 pm **LUNCH**

TUESDAY, JUNE 15, 2010, CONT'D

SESSION 5: Synthesis and Characterizations– Part II
DISCUSSION LEADER: Prof. Atsushi TAKAHARA (Kyushu University, Japan)

WEDNESDAY, JUNE 16, 2010

SESSION 6: Membrane and Energy Conversion Applications
DISCUSSION LEADER: Dr Bruno Ameduri (Inst Ch Gerhardt, Montpellier, France)

8:00 am **Dr Vincenzo Arcella** (Solvay Solexis, Italy)
Fluoropolymer Contribution in Alternative Energy Applications: Recent Developments in Short-side-chain Based FC Membranes and Modified PVDF for Li-Ion Batteries……..**34**

8:40 am **Dr Ken Shi** (NRC Institute for Fuel Cell Innovation, Vancouver, Canada)
Improved Fuel Cell Performance of Short-side-chain (SSC) Perfluorosulfonic acid (PFSA) Membranes and its Application as an Ionomer in the Catalyst Layers...……**35**

9:10 am **Dr Hong Rong Gao** (Shanghai Jiao Tong University, People's Republic China) **Dr. Deborah Jones, Pr. Jacques Rozière** (Institut Charles Gerhardt, France)
Short-side chain, Cross-linked and Composite Perfluorinated Membranes for Higher Temperature, lower Relative Humidity PEMFC……..**36**

9:40 am **Dr Atsushi Watakabe** (Asahi Glass Co. Ltd., Japan)
Recent Advances in Perfluorinated ionomers for PEMFCs…….**37**

10:10 am **BREAK**

10:30 am **Prof. Joseph S. Thrasher** (The University of Alabama, USA)
Self-assembly of Pt DENs on Nafion® to Form Membrane Electrode Assemblies for Fuel Cell Applications.……**38**

11:10 am **Dr Iqbal Sharif** (Clemson University, USA)
Recent Advances in the Synthesis of Proton Conducting Membranes for Fuel Cell…….**39**

11:40 am **Dr Hiroyuki. Arima** (Daikin Industries, Japan)
Poly(vinylidene fluoride-co-tetrafluoroethylene) Copolymers for Lithium Ion batteries. .**40**

12:10 pm **CLOSING REMARKS**

12:35 pm **LUNCH**

POSTERS SESSIONS (Monday 14th and Tuesday 15th)

Ali Alaaeddine (Institut Charles Gerhardt, France) **P1**
Synthesis and Modification of Alternated Copolymers Based on Original Vinyl Ethers and Chlorotrifluoroethylene for Solid Alkaline Fuel Cells

Janick Bigarré (CEA Ripault, France) **P2**
Fluorinated Membranes Doped with Functionalized Silicate Nanoparticles for Fuel Cell Application

Frédéric Boschet (Institut Charles Gerhardt, France) **P3**
Radical Copolymerization of α,β-DifluoroAcrylic Acid with Vinylidene Fluoride

Frédéric Boschet (Institut Charles Gerhardt, France) **P4**
Synthesis and Modification of Alternating Copolymers Based on Vinyl Ethers, Chlorotrifluoroethylene, and Hexafluoropropylene.

Dakarai Brown (Clemson University, USA) **P5**
Semifluorinated Aryl Ether Polymers from Trifluorovinyl Ether Monomers (TFVE)

Gérard Calleja (Institut Charles Gerhardt, France) **P6**
Conversion of Poly(ethylene-alt-tetrafluoroethylene) Copolymers into Polytetrafluoroethylene by Direct Fluorination: A Convenient Approach to Access New Properties at the ETFE Surface.

Yanchao Che (Shanghai 3F New Material, China) **P7**
Synthesis and Characterization of High Dielectric Poly(vinylidene fluoride-trifluoroethylene- chlorotrifluoroethylene) terpolymers

Jean-Marc Cracowski (Clemson University, USA) **P8**
Synthesis and Characterization of Poly(perfluorocyclopentenyl aryl ether)s and Highly Fluorinated Poly(perfluorocyclobutyl aryl ether)s.

Ghislain David (Institut Charles Gerhardt, France) **P9**
Phosphonic Acid-Funcionalized Fluorinated Polymers as Fuel cell Membrane Materials

Nelly Durand (Institut Charles Gerhardt, France) **P10**
Synthesis and Characterization of Functional Fluorinated Telomers

Funaki Atsushi (Asahi Glass Co. Ltd) **P11**
Influence of the Third Monomer Units on the Crystal Structure and Phase Transition Behavior of Ethylene-Tetrafluoroethylene Copolymer

Furukawa Masato (Kobe University, Japan) **P12**
Pyroelectric Response of Ferroelectric Vinylidene Fluoride Oligomer Thin Film

Guittard Frédéric (Université de Nice Sophia-Antipolis, France) **P13**
Superhydrophobic, Superoleophobic Surfaces: Morphological Signature of Electrodeposited Polymers

Kumar Santosh (Institut Charles Gerhardt, France) **P14**
Synthesis and Characterization of Epoxy Functionalized Cooligomers Based on Chlorotrifluoroethylene and Allyl Glycidyl Ether

Kuroda Yusuke (Kobe University, Japan) **P15**
Epitaxial Crystal Growth of Vinylidene Fluoride Oligomer on Friction-transferred Ferroelectric Polymer Template

Maddox Franchessa (University of Alabama, USA) **P16**
Novel Design of an Electrochemical Chromatography Column

Mayot Estelle (Université Strasbourg, France) **P17**
Perfluoropolyether Polymer Based Surfactants: A Key Element to Handle Droplets in Digital Microfluidic

Meskini Ahmed (Université de Lyon, France) **P18**
Dielectric Properties of Poly(Vinylidene Fluoride)-b-Poly(Cyano Comonomers) Block Copolymers

Moukheiber Eddy (Université de Savoie, France) **P19**
Effect of Controlled Ionic Exchange on the Thermal Stability of Perfluorinated Sulfonic Acid Membranes

Park Jiyoung (Clemson University, USA) **P20**
Cross-linked Sulfonated Perfluorocyclobutyl (S-PFCB) Membranes for H_2 Production

Sayler Todd (University of Alabama, USA) **P21**
On the Way to Improved Polymer Electrolyte Membranes: Preparation and Handling of Tetrafluoroethylene (TFE) in an Academic Laboratory

Soulès Aurélien (Institut Charles Gerhardt, France) **P22**
Use of 1,6-Diodoperfluorohexane to Obtain Novel Thermostable Copolymers and Photo reactive Additives

Tillet Guillaume (Institut Charles Gerhardt, France) **P23**
Original Method to Crosslink Fluorinated Elastomers

Utusnomiya Ken (Kobe University, Japan) **P24**
Ferroelectric and Piezoelectric Properties of Newly Synthesized Vinylidene Fluoride Telomer with C_nF_{2n+1} Group

Vergnaud Jérôme (Institut Charles Gerhardt, France) **P25**
Strategies to Synthesize Alternated or Random Copolymers Based on Alpha-Trifluoromethacrylic Acid and Vinylidene Fluoride by Radical Copolymerization.

Verma Rajneesh (Clemson University, USA) **P26**
Perfluorosulfonimide (PFSI) and Sulphonated Perfluorocyclobutyl Aryl Ether Copolymer(S-PFCB) Ionomer Blends