Dr. Giuseppe Milano CURRICULUM VITAE



Date of Birth : March 14th , 1970 Place of Birth : Napoli (NA), Italy Private Address : Via Fortunato 55 Bis, 84084, Fisciano (Salerno), Italy Civil Satus : Married Current Affiliation: Modeling Lab for Nanostructure and Catalysis, Dipartimento di Chimica Università di Salerno I-84084 Fisciano (Salerno), Italy Current Position: Assistant Professor of Chemistry e-mail. : gmilano@unisa.it phone : ++39-(0)89-969567 fax: ++39-(0)89-965296 webpage: http://www.chem.unisa.it/groups/molnac/milano.html

EDUCATION, SCIENTIFIC EXPERIENCE

Appointments year by year

1995

March Degree in Chemistry cum laude at the University of Napoli, supervisor Prof. Vincenzo Barone, working on the thesis titled: *"Developments and applications of computational strategies to study proton transfer reactions in excited states"*

September Grant from the University of Napoli to work in the laboratory directed by Prof. Robert Subra, University Joseph Fourier of Grenoble, France, for a stage in Theoretical chemistry methods applied to free radicals in bio-molecules.

December Military Service (conscription for 12 months, after three months with corporal rank) at South Italy Army Head Quarter in Naples.

1999

January Ph.D. in Chemistry at the University of Salerno, supervisor Prof. Gaetano Guerra, working on the thesis titled: *"Study and characterization of Host-Guest interactions in nanoporous polymeric semicrystalline materials"*

February One year post-doctoral grant from Basell Polyolefins Italy, supervisors Prof. Gaetano Guerra and Dr. Luigi Resconi, on the project: *Theoretical studies on Ziegler-Natta catalysts for the polymerization of propene*

2000

January Two years post-doctoral position in the group directed by Prof. Gaetano Guerra on the project: *"Molecular separations by thermoplastic molecular sieves based on syndiotatctic polystyrene"*

September Grant from Italian Research Council (CNR) *short term mobility for young researcher* to work as visiting scientist hosted in the Polymer Theory Group Directed by Prof. Dr. Kurt Kremer (Max-Planck-Institut für Polymerforschung Mainz, Germany) for molecular dynamics simulations studies about transport properties of polymers.

2002

November Assistant Professorship at University of Salerno

2003

September Research **Fellowship from Alexander von Humboldt Foundation**, at International University Bremen hosted by Prof. Dr. Florian Müller-Plathe title of the research project: *"Atomistic and Coarse Graining Simulation of Polymer Interfaces"*

2004

September Humboldt Fellowship Extension for three months **December-up to now** Assistant Professor at University of Salerno, Modeling Lab for Nanostructures and Catalysis (MolNaC), Department of Chemistry.

TEACHING EXPERIENCE

2002-2003 Laboratory of Industrial Chemistry (University of Salerno, Chemistry, undergraduate level)

2003-2004 Laboratory of Macromolecular Chemistry (University of Salerno, Chemistry, undergraduate level)

Ludwig Boltzmann Lectures :10 lessons for graduates and post-graduates at International University Bremen on Statistical Mechanics and its application to the study of Polymeric Materials. in collaboration with Prof. Müller-Plathe, Dr. D. Roccatano, Dr. S. Pal

Lessons on Coarse Grained Model of Polymers and Biopolymers

At the Summer School on Advanced Modeling of Biological Function organized at International University Bremen by Prof. Martin Zacharias

2004-2005 Laboratory of Environmental Chemistry (University of Salerno ,Chemistry, undergraduate level)

Computational Chemistry Tutorials (International University Bremen, Chemistry, undergraduate and graduate level)

2005-2006 Polymer Physical Chemistry (University of Salerno, Chemistry, senior undergraduate and graduate level)

Introduction to Scientific Programming (University of Salerno, Chemistry, undergraduate level)

2006-2007 Polymer Physical Chemistry (University of Salerno, Chemistry, senior undergraduate and graduate level)

Introduction to Scientific Programming (University of Salerno, Chemistry, undergraduate level)

2008-2009 Polymer Physical Chemistry (University of Salerno, Chemistry, senior undergraduate and graduate level)

Introduction to Scientific Programming (University of Salerno, Chemistry, undergraduate level)

Scientific Interests

- Development of Multiscale Methods and Programs for Material Science Simulations
- Mesocale Modeling, Coarse Grained Simulations of Macromolecular systems
- Development of Hybrid Particle Field approaches for Materials Simulations
- Density functional theory and ab initio calculations
- Combined Quantum Mechanics/Molecular mechanics techniques
- Nanomaterials. Polymer Nanoparticle Composites.
- Transport Properties in Polymers
- Mechanisms of olefins polymerizations.
- Host/guest interactions.

Coordination of Research Projects

2005 Coordinator of a Supercomputing Project in the Framework of CINECA (Italian National Supercomputing Center) and INSTM (Italian National Consortium for Science and Technology of Materials) agreement (11th edition): Duration 12 months *Project title: "Polimeri Vinilici. Meccanismi di Polimerizzazione e Proprietà Fisiche: da Metodi Quantomeccanici a Modelli Coarse-Grained: un approccio multiscala"* Status: Completed

2006 Coordinator of a Supercomputing Project in the Framework of CINECA (Italian National Supercomputing Center) and INSTM (Italian National Consortium for Science and Technology of Materials) agreement (12th edition): Duration 12 months

Project title: "Multiscale Modeling of Macromolecules: Synthetic Polymers and Biopolymers " Status Completed

2008 National Coordinator of the PRISMA project (Innovative Research Projects in Material Science): Duration 24 months

Project title: "Development and Application of Multiscale Methods for the Simulation of Polymer Nanoparticle Dispertions: From Electrons to Rheology" Status: Funded first startup

2008 Co-responsible (togheter with Dr. Roccatano, German Partner at Jacobs University Bremen,) of the DFG project **RO 3571/3-1** Duration 36 months entitled: "*Study of Interaction mechanisms of block polymers with biological interfaces*" Status: Funded first startup

2008 JSPS Project in collaboration with Prof. Kawakatsu at Tohoku University Japan

entitled: "Development of a particle/field hybrid multi-resolution approach to computational physics and material science"

Status: Completed

Languages

• Italian (mother tongue)

• English (fluent)

• German (good level) (G1 Certificate after an intensive course of 2 months at the Goethe

Institut of Bremen, further practice in Germany)

• French (elementary level)

Conference and Schools Organization

-Congresso dei Chimici Teorici di Espressione Latina CHITEL99 Napoli 13-16 settembre 1999 (Organizing Committee member) -3rd Workshop on " Advances on Insertion Polymerisation" Ischia 11-13 settembre 2000 (Organizing Committee member) -Advanced Modeling of Biological Function. Summer School International University Bremen August 2004 Germany (Organizing Committee member) -1st Workshop "Polymers in Nanotechnology" Salerno 27-28th September 2007 (International Representative member)

Memberships and Consulting activity

-Consultant of STMicrolectronics for the Post Silicon Technology Division of the Company. -Member of the association of Italian Humboldtians

-Permanent Member of the commission for PhD. in Chemistry at University of Salerno -Member of the commission for PhD. in Chemical Engineering at University of Naples years 2006 and 2007.

-Member of AIM (Associazione Italiana Macromolecole) Italian Association of Macromolecular Science and Technology and of its newsletters editorial board.

-Member of INSTM (Consorzio Interuniversitario di Scienza e Tecnologia dei Materiali) Italian University Consortium of Material Science and Technologies.

-Founding Member and representative member for the Department of Chemistry of NanomateS (Interdipartimental Centre for Transdisciplinary Research in Nanoscience and Nanotechnology) at University of Salerno.

-Member of Mind Sh@re Community Finmeccanica (Multiscale Modeling Group) see: http://www.finmeccanica.it/Holding/EN/Corporate/Tecnologia/Comunita_tecnologiche/index.sdo

Extracurricular Activities and Interests

Philosophy (in particular Greek, Middle Age and Philosophy of Science).

History (in particular Greek, Middle Age and Second World War in Europe). German Language and Culture.

Swimming, Italian and International (in particular Indian and German) Cooking.

Publications

Pre 2000

1. Proton Transfer in ground and excited electronic states of 2,2'bipyridil-3,3'diol: a semiempirical study

Vincenzo Barone, **Giuseppe Milano**, Laura Orlandini and Carlo Adamo *J.Chem Soc. Perkin Trans* 2,1141, (1995).

2. A Preliminary study of host-guest interactions in Polymeric Clathrates. An ab-initio Study of the model Complexes Benzene/X₂ (X=F,Cl,Br,I)

Giuseppe Milano, Gaetano Guerra and Luigi Cavallo Eur. J. Inorg. Chem. 1513, (1998).

3. Chemical separation by nonoporous crystalline samples of syndiotactic polystyrene Gaetano Guerra, **Giuseppe Milano**, Vincenzo Venditto, Fausta Loffredo, OddaRuiz de Ballesteros, Luigi Cavallo and Claudio De Rosa *Macromolecular Symposia* 138, 131, (1999).

2000

4. Thermoplastic Molecular Sieves

Gaetano Guerra, **Giuseppe Milano**, Vincenzo Venditto, Pellegrino Musto, Luigi Cavallo, Claudio De Rosa

Chemistry of Materials 12, 363, (2000).

5. Mechanism of Unlike Stereoselectivity in 1-Alkene Primary Insertions: Syndiospecific Propene Polymerization by Brookhart-Type Nickel(II) Catalysts Giuseppe Milano, Gaetano Guerra, Claudio Pellecchia, Luigi Cavallo *Organometallics* 19, 1343, (2000).

6. Mechanism of Unlike Stereoselectivity in 1-Alkene Primary Insertions: Syndiospecific Propene Polymerization by Brookhart-Type Nickel(II) Catalysts Giuseppe Milano, Gaetano Guerra, Claudio Pellecchia, Luigi Cavallo Polymer Preprints (Am. Chem. Soc., Div. Polym. Chem.) 41(1), 454 (2000).

2001

7. Ab initio and Molecular Mechanics Study of Conformational Selectivity of Chlorinated Compounds Adsorbed in the Clathrate Phase of Syndiotactic Polystyrene. The Role of Electrostatic Host-Guest Interactions.

Giuseppe Milano, Gaetano Guerra, Luigi Cavallo *Macromolecular Theory and Simulations* 10, 349, (2001).

8. Shape and Volume of Cavities in Thermoplastic Molecular Sieves based on Syndiotactic Polystyrene

Giuseppe Milano, Gaetano Guerra, Vincenzo Venditto, Luigi Cavallo, Paolo Ciambelli, Diana Sannino.

Chemistry of Materials. 13, 1506, (2001).

9. Stereoselectivity and Chemoselectivity in Ziegler-Natta Polymerizations of Conjugated Dienes. 1. Monomers with low energy s-cis η^4 coordination Chiara Costabile, Giuseppe Milano, Luigi Cavallo, Gaetano Guerra *Macromolecules*, 34, 7952, (2001).

2002

10. A Possibile Unified Mechanism of like and unlike chain-end stereocontrol for primary propene coordinated polymerizations

Giuseppe Milano, Giuseppe Fiorello, Gaetano Guerra, Luigi Cavallo *Macromol. Chem. and Phys.* 203, 1564, (2002).

11. Stereochemical pseudohexad 13C NMR resonances and regioregular propylene/ethylene copolymers

Irene Sessa, Dino Romano Ferro, Fabia Grisi, Dario Liguori, **Giuseppe Milano,** Adolfo Zambelli.

Macromolecular Chemistry and Physics 203, 2604, (2002).

12. Site Chirality as a Messenger in Chain-End Stereocontrolled Propene Polymerization. Giuseppe Milano, Luigi Cavallo, Gaetano Guerra.

Journal of the American Chemical Society 124, 13368,(2002).

13. Crystalline orientation and molecular transport properties in nanoporous syndiotactic polystyrene films

Paola Rizzo; Alexandra R. Albunia, **Giuseppe Milano,**; Vincenzo Venditto, Gaetano Guerra, Giuseppe Mensitieri; Luciano Di Maio. *Macromolecular Symposia* 85, 65, (2002).

14. Mechanism of syndiospecific polymerization of propene promoted by Bis(phenoxyimine) titanium catalysts

Marina Lamberti, **Giuseppe Milano**, Luigi Cavallo, Gaetano Guerra, Claudio Pellecchia *Polymeric Materials Science and Engineering* 87, 44, (2002).

15. Anisotropic Diffusion of Small Penetrants in the delta Crystalline Phase of Syndiotactic Polystyrene: A Molecular Dynamics Simulation Study Giuseppe Milano, Gaetano Guerra, Florian Müller-Plathe Chemistry of Materials 14, 2977, (2002).

16. Stereoselective Cyclopropanation by Cyclocopolymerization of Butadiene Stefania Pragliola, **Giuseppe Milano**, Gaetano Guerra, Pasquale Longo, *Journal of the American Chemical Society* 124, 3502, (2002).

2003

17. E Stereoregular 1,1 and 1,3 Constitutional Units from 1,3-Butadiene in Copolymerizations Catalyzed by a Highly Hindered C2 Symmetric Metallocene Pasquale Longo, Stefania Pragliola, **Giuseppe Milano**, Gaetano Guerra

Journal of the American Chemical Society 125, 4799, (2003).

18. Butadiene insertion and Constitutional Units in Ethene Copolymerizations by C2-Symmetric Metallocenes

Pasquale Longo, Mariagrazia Napoli, Stefania Pragliola, Chiara Costabile, **Giuseppe Milano**, Gaetano Guerra.

Macromolecules 36, 9067, (2003).

19. Chlorinated Guest Orientation and Mobility in Chlatrate Structures Formed with Syndiotactic Polystyrene

Alexandra R. Albunia, Sergio Di Masi, Paola Rizzo, **Giuseppe Milano**, Pellegrino Musto, Gaetano Guerra. *Macromolecules* 36, 8695, (2003). 20. Stereoselectivity and Chemoselectivity in Ziegler-Natta Polymerizations of Conjugated Dienes. 2. Mechanism for 1,2 syndiotactic polymerization of diene monomers with high energy s-cis η 4 coordination

Chiara Costabile, **Giuseppe Milano**, Luigi Cavallo, Pasquale Longo, Gaetano Guerra, Adolfo Zambelli.

Polymer 45, 467, (2004).

21. Cyclohexane-Benzene Mixtures: Thermodynamics and Structure from Atomistic Simulations

Giuseppe Milano, Florian Müller-Plathe *J. Phys. Chem. B* 108, 7415, (2004).

22. Statistical Physics of Polymers An Introduction. Kawakatsu, Toshihiro. Giuseppe Milano *Soft Materials* 2, 215, (2004).

2005

23. (E)-(Z) Selectivity in the Polymerization of 2-Butene Promoted by Ni(II) Brookhart-Type Catalysts

Giuseppe Milano, Gaetano Guerra, Mina Mazzeo, Claudio Pellecchia, Luigi Cavallo *Macromolecules* 38, 2072, (2005).

24. Multicentred Gaussian-Based Potentials for Coarse-Grained Polymer Simulations: Linking Atomistic and Mesoscopic Scales

Giuseppe Milano, Sylvain Goudeau, Florian Müller-Plathe *J. Polymer. Science Part B: Polymer Physics* 43, 871, (2005).

25. Orientation and Microenvironment of Naftalene Guest in the Host Nanoporous Phase of Syndiotactic Polystyrene

Vincenzo Venditto, **Giuseppe Milano**, Anna De Girolamo del Mauro, Gaetano Guerra, Jun Mochizuchi, Hideyuchi Itagaky

Macromolecules 38, 3696, (2005).

26. Host-Guest Interactions, Guest Dynamics and Morphology in Syndiotactic Polystyrene Nanoporous and Clathrate Crystalline Phases in "Structure and Dynamics in Macromolecular Systems with Specific Interactions"

Gaetano Guerra, Alexandra Albunia, Christophe Daniel, **Giuseppe Milano**, Paola Rizzo, Vincenzo Venditto

pp 91-100 Ed. K. Adachi, T. Sato Osaka University Press, Osaka 2005.

27. Thermoplastic Molecular Sieves: New Polymeric Materials for Molecular Packaging in "New Polymeric Materials"

Giuseppe Milano, Christophe Daniel, Vincenzo Venditto, Paola Rizzo, Gaetano Guerra, Pellegrino Musto, Giuseppe Mensitieri.

Chap. 13, p 171 Edited by L. S. Korugic-Karasz, W. J. MacKnight, E. Martuscelli ACS Books, Washington DC, 2005.

28. Mapping Atomistic Simulations to Mesoscopic Models: A Systematic Coarse-**Graining Procedure for Vinyl Polymer Chains**

Giuseppe Milano, Florian Müller-Plathe J. Phys. Chem. B 109; 18609, (2005).

29. A clear Cut Experimental Method to Discriminate between In-Plane and Out-of-Plane **Molecular Transition Moments**

Alexandra R. Albunia, Giuseppe Milano, Vincenzo Venditto, Gaetano Guerra J. Am. Chem. Soc. 127, 13114, (2005).

2006

30. Anisotropic Guest Diffusion in the Crystalline Host Phase of Syndiotactic Polystyrene: Transport Kinetics in Films with Three Different Uniplanar Orientation of the Host Phase

Vincenzo Venditto, Anna de Girolamo del Mauro, Giuseppe Mensitieri, Giuseppe Milano, Pellegrino Musto, Paola Rizzo, Gaetano Guerra Chemistry of Materials 18, 2205, (2006).

31. Synthetic Polymers and Biomembranes. How do they interact?: Atomistic Molecular Dynamics Simulation Study of PEO in contact with a DMPC Lipid Bilayer Sandeep Pal, Giuseppe Milano, Danilo Roccatano J. Phys. Chem. B 110; 26170, (2006).

32. Dynamics of benzene guest inside a self-assembled cylindrical capsule: A combined solid-state H-2 NMR and molecular dynamics simulation study Alexandra R. Albunia, Carmine Gaeta, Placido Neri, Alfonso Grassi, Giuseppe Milano J. Phys. Chem. B 110; 19207, (2006).

33. Oriented nanoporous host delta phases of syndiotactic polystyrene as a tool for spectroscopic investigation of quest molecules

Alexandra R. Albunia, Alfonso Grassi, Giuseppe Milano, Paola Rizzo, Vincenzo Venditto, Pellegrino Musto, Gaetano Guerra

Macromolecular Symposia 234,102, (2006).

2007

34. From mesoscale back to atomistic models: A fast reverse-mapping procedure for vinyl polymer chains

Giuseppe Santangelo, Andrea Di Matteo, Florian Müller-Plathe, Giuseppe Milano J. Phys. Chem. B 111; 2765, (2007).

35. Coarse-grained and reverse-mapped united-atom simulations of long-chain atactic polystyrene melts: Structure, thermodynamic properties, chain conformation, and entanglements

Theodora Spyriouni, Christos Tzoumanekas, Doros Theodorou, Florian Müller-Plathe, **Giuseppe Milano**

Macromolecules 40, 3876, (2007).

36. Viscosity and Structural Alteration of a Coarse-Grained Model of Polystyrene under Steady Shear Flow Studied by Reverse Nonequilibrium Molecular Dynamics Xiaoyu Chen, Paola Carbone, Welchy L. Cavalcanti, Giuseppe Milano, Florian Müller-Plathe

Macromolecules 40, 8087, (2007).

In Press-Submitted-In Preparation Manuscripts

37. Understanding at molecular level of nanoporous and co-crystalline materials based on syndiotactic polystyrene

Giuseppe Milano, Gaetano Guerra PROGRESS IN MATERIALS SCIENCE 54, 68, (2009)

38. Backmapping coarse-grained polymer models under sheared nonequilibrium conditions

Xiaoyu Chen, Paola Carbone, Giuseppe Santangelo, Andrea Di Matteo, Giuseppe Milano and Florian Müller-Plathe

Phys. Chem. Chem. Phys., (2009), DOI: 10.1039/b817895j

39. A molecular model for H₂ interactions in aliphatic and aromatic hydrocarbons Susana Figueroa-Gerstenmaier, Simona Giudice, Luigi Cavallo, and Giuseppe Milano *Phys. Chem. Chem. Phys.* In Press

40. Reactivity of a cationic alkyl amino-functionalized cyclopentadienyl aluminum compound with olefins: NMR observation and computational investigation of the single propene insertion product into an AI-C bond

Daniela Pappalardo, Massimiliano Mella, Giuseppe Milano, Claudio Pellecchia *Organometallics* In Press

41. Hybrid Particle-Field Molecular Dynamics Simulations for Dense Polymer Systems

Giuseppe Milano, Toshihiro Kawakatsu Manuscript in Preparation for J. Chem. Phys.

42. Polystyrene/Gold Nanoparticle Interfaces: All atom Structures from Multiscale Molecular Dynamics Simulations

Giuseppe Milano, Giuseppe Santangelo, Francesco Ragone, Luigi Cavallo, Andrea Di Matteo

Manuscript in Preparation

43. A Charge Transfer Metropolis Monte Carlo Algorithm for Automatic Point Charges Parametrization:

Andrea Correa, Luigi Cavallo, Giuseppe Milano In Preparation for Journal of Computational Chemistry

Selected Conference Communications and invited Talks

1. Models for syndiospecific chain-end controlled propene polymerisation with Brookhart-type Ni(II) catalysts

G.Milano, G.Guerra and L. Cavallo

Poster: "Workshop on advances in organometallics and olefin polimerisation." (Ferrara 28-29 Maggio 1998)

2. Chemical separation by nanoporous crystalline samples of syndiotactic polystyrene

G. Guerra, G. Milano, V. Venditto, F. Loffredo, O. Ruiz de Ballesteros, L. Cavallo and C. De Rosa Coauthor of Oral: "2nd International Conference on Polymer-Solvent Complexes and Intercalates" dal titolo (Ischia 31-Agosto 4-Settembre 1998)

3. Sorption of Chlorinated Solvents and their Mixtures in Semicrystalline Syndiotactic Polystyrene: Role of Adsorption in the Crystalline Phase

Giuseppe Mensitieri, Gaetano Guerra, Giuseppe Milano, Pellegrino Musto, Vincenzo Venditto Coauthor of Oral: Annual Conference of AICHE (American Institute of Chemical Engineers) fourth topical conference on separation science and technology Dallas 31 October –1 November 1999

4. Mechanism of Unlike Stereoselectivity in 1-Alkene Primary Insertions: Syndiospecific Propene Polymerization by Brookhart-Type Nickel(II) Catalysts

Giuseppe Milano, Gaetano Guerra, Claudio Pellecchia, Luigi Cavallo. Poster: 219th ACS National Meeting, San Francisco, CA, 26-30 March 2000.

5. Mechanisms of chain-end stereoselectivity in propene polymerizations

Giuseppe Milano, Giuseppe Fiorello Gaetano Guerra, Luigi Cavallo. Poster: OCOP2000 Organometallic Catalysts and Olefin Polymerization (New Millennium International Conference). Oslo 18-22 June 2000.

6. Density functional studies of mechanism of Ziegler-Natta dienes polymerizations

Chiara Costabile, Giuseppe Milano, Gaetano Guerra, Luigi Cavallo. Poster: OCOP2000 Organometallic Catalysts and Olefin Polymerization (New Millennium International Conference). Oslo 18-22 June 2000.

7. Thermoplastic Molecular Sieves based on Syndiotactic Polystyrene

Gaetano Guerra, Fausta Loffredo, Giuseppe Milano, Vincenzo Venditto, Pellegrino Musto, Giuseppe Mensitieri.

Coauthor of Oral: World Polymer Congress IUPAC Macro 2000 (38th Macromolecular IUPAC Symposium) Warsav, Poland, 9-14th July 2000.

8. Mechanisms of chain-end stereoselectivity in propene primary insertions

G.Milano, G.Fiorello,G. Guerra, L. Cavallo Oral: 3rd Workshop on 'Advances on Insertion Polymerisation' Ischia, 11-13 September 2000

9. Mechanisms of chain-end stereoselectivity in propene secondary insertions

G.Milano, G.Fiorello,G. Guerra, L. Cavallo Poster: 3rd Workshop on 'Advances on Insertion Polymerisation' Ischia, 11-13 September 2000

10. Density functional studies of mechanisms of Ziegler-Natta dienes polymerizations

Coauthor of Oral: C. Costabile, G.Milano, G Guerra, Luigi Cavallo 3rd Workshop on 'Advances on Insertion Polymerisation' Ischia, 11-13 September 2000

11. Thermoplastic Molecular Sieves Based on Syndiotactic Polystyrene

Coauthor of Oral: G. Guerra, G. Milano, V. Venditto, F. Loffredo, P. Musto, G. Mensitieri EPF-Europolymer Congress June 2001. Eindhoven, Plenary Lecture 20.

12. Transport Properties of Small Molecules in the delta Crystalline Phase of Syndiotactic Polystyrene: Simulations and Experiments

G. Milano, G. Guerra, F. Müller-Plathe Oral: Molecular Modelling on Membrane Research 2002 GKSS in Teltow (Germany), 22-24 May 2002

13. (E)-(Z) Selectivity in the Polymerization of 2-Butene Promoted by Ni(II) Brookhart-Type Catalysts

Oral: European Polymer Conference on Stereospecific Polymerization and Stereoregular Polymers – EUPOC 2003 Milano 8 - 12 June 2003

14. Flory-Huggins Parameter from Atomistic Molecular Dynamics Simulations Giuseppe Milano

Poster: "NIC Winter School Computational Soft Matter: From Synthetic Polymers to Proteins" Winter School, 29 Feb. - 6 March 2004 Gustav-Stresemann-Institut, Bonn.

15. Computational Chemistry and Experiments

Giuseppe Milano

Invited Talk: Max-Planck-Institut für Eisenforschung invited by Prof. Martin Strattman. Duesseldorf 29 January 2004.

16. Bridging the Scales: Coarse-Grained Simulations of Polymeric Materials

Giuseppe Milano

Invited Talk: Zürich ETH Laboratorium für Physicalische Chemie, invited by Prof. Wilfred van Gunsteren 24th August 2005

17. YAMMT: Yet another Multiscale Modeling Talk Giuseppe Milano

Giuseppe Milano Invited Talk: Technische Universität of Darmstadt, Theoretische Physikalische Chemie Group, invited by Prof. Florian Müller-Plathe 13th September 2005

18. Multiscale Modelling and Nanofabrication

Giuseppe Milano Invited Talk: WorkshopNanoMetrology 2007 Metrology for Nanotechnology June 14-15, 2007 National Institute of Metrological Research – INRIM Torino - Italy

19. Multiscale Modelling in Polymer Science: from atomistic to mesocale simulations

Oral: Mesoscale Modeling for Complex Fluids and Flows, Department of Physics University of Oxford 25-27 June 2007.

20. Model the Nanoscale with Chemical Accuracy. How Multiscale Modelling Simulations Can Help. Invited Talk: Tohoku University, Sendai, Department of Physics, Theoretical Condensed Matter and

Statistical Physics Group, Sendai 12 September 2007.

21. Possible Multiscale Approaches for Nanocomposites Materials in Aeronautics

Invited Talk: Opening talk at First Meeting of the Multiscale Modeling Working Group (Mind Sh@re Community Corporate Project of Finmeccanica) Alenia Aeronautica January 30th 2009 Pomigliano See: http://www.alenia-aeronautica.it/eng/Pages/Home.aspx