

Conferences

Invited Talks to Conferences

- Sep 27–28 2018 [Effects of supported graphene defects](#) Symposium in honor of prof Giuseppe Grosso *A fresco of contemporary condensed matter physics* (Pisa Italy)
- Sep 10–12 2018 [Graphene imperfections: defects or effects?](#) Italy/Canada Bilateral Workshop *Nanomaterials for Devices* (Montreal, Quebec, Canada)
- Dec 12–16 2016 [Morphing graphene for energy applications](#). Conference *Materials.it 2016* (Catania, Italy)
- Feb 3–6 2016 [Multi-scale simulations from graphene to macro-biomolecules](#). Workshop *Biophysics of Molecules: structure, dynamics and function* (Bressanone, Italy)
- Sep 14–18 2015 [Manipulating graphene properties at the nano-scale](#). Conference *GraphIta* (Bologna, Italy)
- June 9 2015 [Graphene manipulation at the nano-scale](#) Workshop *Graphene Retreat 2015* (Lucca, Italy)
- Dec 10 2014 [Multi-scale simulations of Biomolecular systems](#). Workshop of The Science Europe Committee for Life, Environmental and Geo Sciences *Computational modelling of complex spatial structures and processes in Natural and Life Sciences* (Bruxelles)
- Nov 20–21 2014 [Minimalist Models for proteins: The past and the future](#). Workshop CECAM *Advanced modeling to investigate biomolecules* (Genoa)
- Oct 20–21 2014 [Hydrogen Storage in Graphene](#). Workshop Graphene Connect – *Energy Application* (Dresden)
- Jun 17–20 2014 [Multi-Scale Simulations of Rippled Hydrogenated Graphene](#). Workshop *New Frontiers in Multiscale Modelling of Advanced Materials* (Trento, Italy)
- June 12 2014 [Multi-Scale modeling and simulation Devices development: MuScaDe](#). Meeting of Compunet, the computational platform of Italian Institute of Technology
- Sep 11–13 2013 [Multi-Scale molecular dynamics in soft matter](#). Industrial Forum for Multiscale Materials Modelling and Training (Bologna)
- Sep 19–20 2012 [Controlled \(de-\)hydrogenation of corrugated graphene](#). XCVIII Congresso Nazionale della Società Italiana di Fisica (Napoli)
- Sep 2–6 2012 [Minimalist models of Biopolymers: Latest advances and applications](#). Conference TACC 2012, *Theory and Applications of Computational Chemistry* (Pavia, Italy)
- Jul 9 2012 [Reversible Hydrogen Storage by Controlled Buckling of Graphene Layers](#). Workshop *Graphene Day* (Pisa, Italy)
- Jun 20–21 2012 [Hydrogen on corrugated graphene](#). SINFO Workshop (Parma, Italy)
- Mar 25–29 2012 [Minimalist model for Biopolymers: recent applications open problems and perspectives](#) 243rd American Chemical Society Meeting, Symposium in Honor of Andy McCammon (San Diego, CA).
- Sep 7–10 2009 [One-Bead Models for Biopolymers: State of the art, open problems, perspectives](#). CECAM Workshop *Coarse-Graining Biological Systems: Towards Large-Scale Interactions and Assembly* (Lausanne).
- Jul 11–15 2009 [Bridging atomistic- and meso-scale with minimalist models for biomolecules](#). European Biophysics Congress (Genoa 2009).
- Dec 19 2008 [Minimalist models for large-scale modeling of bio-systems](#). Conference *Winter Modeling 2008* (Cnr Pisa, Italy).
- Aug 11–15 2008 [One Bead Coarse Grained Models: the Balance between Accuracy and Predictive Power](#). CTBP Summer School *Coarse Grained Physical Modeling of Biological Systems: Advanced Theory and Methods* (UCSD)
- Jun 23–27 2008 [A multi-scale approach to the photophysics of the intrinsically fluorescent proteins](#). CPMD 2008 *Modeling and computation of structure and dynamics of condensed phase systems* (ICTP, Trieste, Italy)
- Jul 3–7 2006 [Variation of Color and Photodynamics within the family of Intrinsically fluorescent Proteins](#). Meeting of the Psi-k Network *Progress in ab initio modeling of biomolecules: methods and applications* (Lorentz Center – Leiden)
- Oct 4–7 2005 [Extremely Coarse Grained Models for Large Time-scale Molecular Dynamics Simulations](#). Workshop *Multiscale Modeling in Biological Systems* (Snowbird, Salt Lake City, Utah).
- Sept 10–11 2004 [Modeling Intrinsically Fluorescent Proteins](#). *Highlights in the quantum theory of condensed matter* - A symposium to honor Mario Tosi on his 72nd birthday (Pisa SNS, Italy).
- May 15–16 2004 [Modeling the Intrinsically Fluorescent Proteins](#). Workshop INFM-Democritos-Psi-K *Ab Initio Modeling in Biological Systems* (SISSA, Trieste).

- Oct 28–
Nov 8 2002 [Modeling Photophysics and Optical Switching in Green Fluorescent Proteins](#). Workshop ICTP-INFM *Entanglement at the Nanoscale* (Trieste, Italy)
- Sep 21–22 2001 [Modeling the Photophysics of the Green Fluorescent Proteins](#). Workshop: *Single particle methodologies in biophysics and biotechnology* (LENS, Firenze, Italy).
- Mar 25–28 2001 [Formazione e Stabilità di Fullereni di semiconduttori III-V XX Convegno di Fisica Teorica e Struttura della Materia](#) Fai della Paganella (Trento, Italy)
- Nov 25–28 1998 [Dinamica Molecolare Ibrida Classica–Ab initio per simulazione di macromolecole](#). Annual Meeting of section GNSM “Collective Properties” of Cnr (Perugia, Italy).
- Jun 10–12 1998 [Simulazioni di dinamica molecolare: uno strumento di indagine microscopica in campo biomedico](#). Conference *Procedure operative di misura e valutazioni dosimetriche nelle attività sanitarie* (San Miniato, Pisa, Italy)

Invited seminars

- Feb 23 2016 [Multi-scale simulations from bio-molecules to graphene](#). *Colloquia* of the dept of Physics of University of Pisa. Host: Prof Alejandro Kievsky
- Sep 16th 2014 [Multi-scale modeling of complex systems: Theory, implementation and application](#). Jülich Forschungszentrum – IAS – GRS. Host: Prof Paolo Carloni
- Jan 15 2014 [Hydrogenated-rippled graphene: a multi-scale approach](#). University of Trento, Lab of bio-inspired & graphene nano-mechanics. Host: Prof Nicola Pugno
- Dec 7 2011 [Minimalist models for bio-molecules: open problems and perspectives](#). University of Modena and Reggio Emilia. Host: Prof Elisa Molinari
- Oct 24 2005 [Coarse Grained Models for Large Time-scale Molecular Dynamics Simulations](#). ICM (Interdisciplinary Center for Mathematical and Computational Modeling) - Warsaw University. Host: Prof Joanna Trylska
- Jan 9 2004 [Modeling the optical switching in green fluorescent proteins](#). CTBP (Center for Theoretical BioPhysics) UCSD (University of California San Diego). Host Prof J.A. McCammon
- Nov 20 2002 [Molecular Modeling at NEST: methods and applications](#). SienaBiotech (siena Italy)
- Nov 23 2001 [Tecniche di simulazione QM/MM applicate a sistemi biologici](#). Università della Tuscia – Viterbo. Host: Prof Salvatore Cannistraro
- Feb 14 2001 [Modelling the Photophysics of Green Fluorescent Protein](#). SISSA (Trieste, Italy). Host: prof Paolo Carloni
- Feb 8 2001 [A Molecular Dynamics approach to the study of III-V semiconductor Fullerenes and Green Fluorescent Proteins](#). ESRF (Grenoble, France). Host Dr Fabio Pistolesi
- Feb 3 2000 [An Hybrid Quantum–Classical Approach to Molecular Dynamics Simulations of Complex Systems](#). Institute of Theoretical Physics, University of Nijmegen. Host Prof Annalisa Fasolino
- Apr 12 1999 [Meccanismi di Fluorescenza delle Green Fluorescent Proteins: Fenomenologia e Modelli](#). Institute of biophysics – Cnr (Pisa)
- Dec 18 1998 [Dinamica Molecolare Ibrida Classica–Ab initio per simulazioni di Macromolecole. Applicazioni a zeoliti e cromofori naturali](#). University of Rome III Host. Prof Mauro Rovere
- Apr 9th 1997 [Applicazione della Teoria del Funzionale di Densità allo studio di proprietà vibrazionali di sistemi condensati vicino alla transizione liquido-solido](#). University of Modena. Host: prof Elisa Molinari
- Nov 1995 [DFT: applicazione al calcolo delle curve di dispersione dei fononi in cristalli fortemente anarmonici](#). Università dell’Aquila. Host: Prof Giancarlo Ruocco

Contribution to Conferences (only those as presenting author)

- Apr 19–22 2016 [Morphing graphene at the nano-scale: from simulations to applications](#). Conference *Graphene 2016* (Genoa). **Poster**
- Jun 24 2015 [Hydrogen interaction with statically and dynamically rippled graphene](#). Conference *Graphene Week 2015* (Manchester). **Poster**
- Apr 23 2015 [Simulazioni multi-scala in materia condensata: un progetto che dura da mezzo secolo](#). Congressino del Dipartimento di Fisica, (Pisa, Italy). **Poster**
- Jun 23–27 2014 [Designing graphene for energy applications](#). Conference *Graphene Week 2014* (Gothemburg). **Talk**
- May 8 2014 [Multi-Scale Simulations of Graphene for Energy Applications](#). Conference *Graphene 2014* Toulouse (France). **Talk**

- Sep 2–5 2013 [A quantum-atomistic-continuum 3-scale modelling of graphene hydrogenation](#). International Conference on Diamond and Carbon Materials, Riva del Garda (TN). **Talk**
- Feb 21–22 2011 [Multi-Scale modeling NEST](#). I Workshop on Condensed Matter Physics and Computational Material Science DMD-Cnr 2011 (Roma). **Talk**
- Apr 30–
May 4 2005 [A Coarse Grained Model for slow and anharmonic motions in proteins and macromolecular aggregates: Applications to HIV-1 protease and the 70S Bacterial Ribosome](#). VI European Symposium of the American Protein Society (Barcellona, Spagna). **Poster**
- Oct 13–18 2003 [Modeling the molecular mechanism of optical switching in Green fluorescent Proteins](#). First International Meeting on Applied Physics (Badajoz, Spain). **Poster**
- Jun 23–25 2003 [Photophysics of red and blue fluorescent proteins: tailoring fluorophores at the ends of the visible spectrum](#). INFMeeting 2003, (Genova, Magazzini del Cotone). **Poster**
- Jun 24–28 2002 [Engineered GFP dynamics for biomolecular electronics and protein monitoring](#). INFMeeting 2002, (Bari). **Talk**
- Apr 18–19 2002 [Proteine Verdi Fluorescenti per la Bioelettronica](#). *Workshop dei Ricercatori INFM* (Genoa). **Talk**
- Jun 18–22 2001 [Spontaneous Formation and Stability of III-V Semiconductor Hollow Clusters: an *Ab Initio* Study of a new Class of Fullerenes](#). INFMeeting 2001 (Roma–EUR). **Talk**
- Jun 14–18 1999 [An Hybrid Quantum–Classical Molecular Dynamics Simulation for Semiconductor Clusters in Zeolites](#). INFMeeting 1999 (Catania, Italy). **Talk**
- Jun 25–30 1998 [A Combined Quantum-Classical Method for Molecular Dynamics Simulations of Large Systems](#). INFMeeting 1998, Rimini **Poster**
- Apr 22–25 1996 [Dispersion curves of highly anharmonic phonons in 2-d Wigner crystal via density functional theory](#). Conference of the Condensed Matter Division of European Physical Society (Baveno-Stresa, Italy). **Poster**
- Mar 30–
Apr 2 1996 [Curve di dispersione di fononi fortemente anarmonici nel cristallo di Wigner bidimensionale](#). XV Convegno Nazionale di Fisica Teorica e Struttura della Materia (Fai della Paganella, Trento). **Poster**
- Jul–Aug 1995 [⁴He: links between spectrum of liquid near crystallization and vibrational properties of solid near melting](#). Workshop *Classical and Quantum Liquids* (ICTP, Trieste, Italy). **Talk**
- May 29–
Jun 11 1995 [⁴He: links between spectrum of liquid near crystallization and vibrational properties of solid near melting](#). National Condensed Matter Physics Conference (Napoli, Italy). **Poster**
- Apr 8–11 1995 [⁴He: legami tra lo spettro del liquido vicino alla cristallizzazione e le proprietà vibrazionali del solido vicino alla fusione](#). XIV Convegno Nazionale di Fisica Teorica e Struttura della Materia (Fai della Paganella, Trento). **Poster**
- Jul 1994 [DFT applied to vibrational properties of solids near melting](#). Workshop *Strongly Correlated electron Systems* (ICTP, Trieste). **Talk**
- Jul 1994 [Phonons in quantum Solids near Melting](#). Workshop *Classical and Quantum Liquids* (ICTP, Trieste). **Talk**
- Apr 6–9 1994 [Proprietà vibrazionali ed elastiche del cristallo di Wigner di elettroni prossimo alla fusione](#). XIII Convegno di Fisica Teorica e Struttura della Materia (Fai della Paganella, Trento). **Poster**

Organization of Scientific Meetings & Chairing

- Feb 4–6 2019 CECAM Workshop [Multiscale modelling from Macromolecules to Cell: Opportunities and Challenges of Biomolecular Simulations](#), (Lausanne, Switzerland). **Organizer and Scientific Committee Member**
- Dec 12–16 2016 Conference [Materials.it 2016](#) (Catania, Italy). **Chair person** of the Session: *Mechanical properties of 2D materials composites*
- Sep 22–26 2014 [100° National congress of SIF](#) (Società Italiana di Fisica), Pisa. **Chair person** of the *Condensed Matter Physics* session
- Jun 22–25 2005 [MMD-Meeting - Matter, Materials and Devices](#) (Genova). **Coordinator of topical session** Simulating biomolecular systems
- Jul 14–19 2003 Conference [New Frontiers in NanoBiotechnology: monitoring protein function with single-protein resolution](#) ICTP, Trieste (Italy). **Director**

Project meetings

- Sep 28 – Bilateral Italy–Georgia Meeting. Tbilisi, Georgia.
- Oct 2 2018
- May 24–25 2018 Graphene-Core2 WP12–SPH5 Meeting, Palaiseau, France. **Talk**
- Oct 23–24 2017 WP12 Graphene-Core1 Progress Meeting, Cambridge, UK. **Talk**
- Apr 6 2017 WP12 Graphene-Core1 Progress Meeting, Bologna, Italy. **Talk**
- Nov 2–3 2016 WP11-WP12 Graphene-Core1 Progress Meeting, Grenoble, France. **Talk**
- Aug18–19 2016 WP12 Graphene-Core1 Storage Task meeting, Umeå, Sweden. **Talk**
- May 5-6 2015 [WPE.4 Hydrogen Storage@Cnr-NANO](#). Graphene Flagship: WP9 Progress report meeting, Rome, Tor Vergata. **Talk**
- Mar 9–14 2015 *Graphene 2015* and *CELENEC Workshop* (Standardization committee), (Bilbao, Spain)
- Oct 21–22 2014 [WPE.4 Hydrogen Storage@Cnr-NANO](#), Graphene Flagship: WP9 Progress report meeting, Dresden. **Talk**
- May 12–13 2014 [WPE.4 Hydrogen Storage@Cnr-NANO](#). Graphene Flagship: WP9 Progress meeting, CEA, Grenoble. **Talk**
- Jan 15–2014 [T 9.4 Hydrogen storage](#). WP9.4 Meeting, Flagship Graphene. (FBK Trento) **Talk**
- Jan 14- 2014 [Hydrogen interaction with graphene: modeling and simulations](#). TI-Itron meeting, (iit genova). **Talk**
- Nov 4–5 2013 [Hydrogen Storage in Graphene](#) Kick-off meeting, WP9 Flagship Graphene (iit, Morego, Genova). **Talk**
- Sep 14–16 2011 [Reversible hydrogen storage by controlled buckling of graphene layers](#). Graphene Roadmap Consultation Workshop: First Principle Computational Methodologies for 2D Materials, Lancaster (UK). **Talk**
- Oct 5–6 2010 [Multiscale Molecular Modeling@NEST](#) Kick-off meeting of the Institute of Nanoscience-CNR (Matraia, Lucca). **Poster**

Attended Workshop, Schools and Courses

- Jun 27–30 2001 11th Annual Meeting of the ICRS (International Cannabinoids Research Society), San Lorenzo de El Escorial (Madrid).
- Mar 7–16 2000 “Life Science Regional Training Workshop”, Università di Modena. Attended courses: (i) Advanced Hypothesis/3D Database Techniques; (ii) Structure-Based Drug Design with Insight II; (iii) Introduction to Life Science Modeling with Insight II; (iv) Homology-Based Protein Design Workshop “MSI Software for materials and life science” (CINECA Bologna)
- Apr 28 1999 “Cardiovascular Radiation Therapy III” (Washington D.C.)
- Feb 17–19 1999 research Workshop on condensed matter physics (ICTP, Trieste): Miniworkshop on “Quantum Monte Carlo simulation of Liquids and Solids”
- Jun 22– Jul 6 1997 Research Workshop on condensed matter physics (ICTP, Trieste); Adriatico research conference “The electron quantum liquid in systems of reduced dimensions”; Miniworkshop “Strong electron correlations”
- Jul 1–17 1996 3rd Balkan School of Physics, “Highlights in Condensed Matter Physics” (Kas-Antalia, Turkey)
- Sep 29– Oct 9 1996 VI Scuola Nazionale di Fisica della Materia, (Villa Gualino, Torino, Italy)
- Oct 1995 V Scuola Nazionale di Fisica della Materia, (Villa Gualino, Torino)
- Sep 1994 IV Scuola Nazionale di Fisica della Materia, (Villa Gualino, Torino)
- Oct 1993 Workshop “Strongly correlated Electron Systems” at ICTP
- Jul 1993 Workshop “Correlated Electron Systems” and “Classical and Quantum liquids” at ICTP (International Centre of Theoretical Physics, Trieste)
- Aug 1992