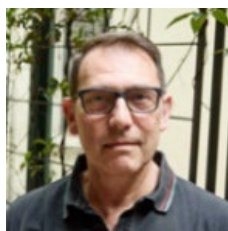


# ANDREA MELE



## Contact Information

**Address:** Milano, Italy  
**Date of Birth:** 16 March 1961  
**WoS ResearcherID:** C-7448-2011  
**ORCID:** 0000-0002-0351-0538

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## Summary of Qualifications

Renowned Professor with over 30 years of academic and research leadership in Chemistry and Material Sciences. Expertise in sustainable chemistry, advanced analytical methods, and industrial innovation. Recognized with prestigious awards, including the Gold Medal for Nuclear Magnetic Resonance (NMR) spectroscopy. Proven collaborator and leader in international research initiatives and high-profile academic roles.

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## EDUCATION

**Ph.D. (Dottorato di Ricerca)** Chemical Sciences, Università di Genova, 1987-1990  
**Concentrations** Physical Organic Chemistry  
**Degree (Laurea)** Chemistry, Università di Genova, 1986  
**Concentrations** Synthetic Organic Chemistry

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## WORKING POSITION

**2011 - today** Full Professor, Politecnico di Milano, Dept. Chemistry, Materials and Chemical Engineering "G. Natta" (SSC: 03/B2; SSD: CHIM/07)  
**2002 - 2010** Associate Professor, Politecnico di Milano, Dept. "G. Natta" (03/B2 – CHIM/07)  
**1994 - 2001** Research Assistant (Ricercatore), Politecnico di Milano, Dept. "G. Natta"  
**1991 - 1993** Technical Assistant (Tecnico Laureato), Politecnico di Milano, Dept. "G. Natta"  
**1990 - 1991** Post-doctoral fellow, Glycobiology Institute – Dept. of Biochemistry, University of Oxford (UK)  
EU grant, SCIENCE project, Grant Science Plan - ERB SC1\*CT00058 – Research project: New NMR Methods for Conformational Studies on Oligosaccharides and Glycoproteins

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## ACADEMIC ACTIVITY

**Chair** Nuclear Magnetic Resonance (NMR) and Mass Spectrometry Facilities of Dept. "G. Natta" of Politecnico di Milano (till October 2020)  
**Coordinator** Chemistry Section of Dept. "G. Natta" – Politecnico di Milano (2013-2015) and (2016-2019)  
**Member** Scientific Board of Dept "G. Natta" – Politecnico di Milano (2013-2015) and (2016-2019, Director's Delegate)  
**Member** Executive Board (Giunta) of Dept "G. Natta" – Politecnico di Milano (2013-2015) and (2016-2019)

*Member* Scientific Board of the PhD School in Industrial Chemistry and Chemical Engineering – Politecnico di Milano (2013 - today)

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## MANAGEING ACTIVITY

*Board of Executives* Associazione Italiana Chimica per l'Ingegneria – AICIng. (2023 – today).  
<http://www.aicing.it/>

*Board of Directors* European Society of Ionic Matter (2019 – today).  
<https://web-esim.eu/>

*Member* Italian member of the Managing Committee of the EU COST Action CM1206 EXIL – Exchange on Ionic Liquids. 22 Feb 2013 – 30 Mar 2017.

*Member* Italian member of the European Cyclodextrin Society.

*Co-Chair* Associazione italiana Chimica e Tecnologia delle Ciclostreine (CDTec) 12 October 2006 – today).  
<http://www.cdtec.unito.it/>

*Board of Directors*  
*(Consiglio d'Amministrazione)* Istituto di Chimica e Biochimica “G. Ronzoni” – Milano (25 Sept 2012 – 31 Dec 2018).

*Member* Joint Committee (Comitato Paritetico) CNR – Politecnico di Milano 24 Feb 2015-today.

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## AWARDS

2019 **Winner** of Switch2Product – Innovation Challenge 2019 with **Bi-Rex** Project (Biomass recovery, recycling and extraction)

2019 **Honorable Mention** at “Premio per l'innovazione amica dell'ambiente – Legambiente 2019” competition with project **Bi-Rex**.

2017 **Gold Medal** of [GIDRM/GIRM](#) for Nuclear Magnetic Resonance Spectroscopy

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## PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

*Member* American Chemical Society

*Member* Scientific Board of The European Cyclodextrin Society

*Associate* National Research Council (CNR) – Institute of Molecular Recognition Chemistry (CNR-ICRM) 5 Oct 2006-31 Dec 2019  
CNR – Institute of Chemical Sciences and Technology (SCITEC), 1 Jan 2020 – 31 Dec 2023.

*Associate* Associate scientist at ELETTRA Synchrotron Trieste, 1 Dec 2021 – 12 Oct 2023.

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## TEACHING

1993 – today  
2023 – today GENERAL CHEMISTRY (1<sup>st</sup> year Engineering students)  
ANALYTICAL METHODS AND PROCESSES FOR WASTE CHARACTERIZATION AND VALORIZATION - MODULE 2. Green Ambassador Course. 2023 – present)

1999 – 2019  
2003 – 2008 and  
2020 – 2022 QUALITY CONTROL OF CHEMICALS for 3<sup>rd</sup> year Chemical Engineering  
PHYSICAL METHODS FOR CHEMICAL ANALYSIS for Chemical Engineering master students

2004 – today ADVANCED ANALYTICAL METHODS AND DATA ANALYSIS (2004-present) for Ph.D programme in Industrial Chemistry and Chemical Engineering, Politecnico di Milano

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## VISITING PROFESSOR

1 Nov 2022 –31 Oct 2023

**ELETTRA Synchrotron** Trieste, line BL10.2-IUVS UV-Raman. Gap year visiting scientist.

2 – 6 Sep 2019

**École Normale Supérieure de Lyon** (France)

(within Galileo Project Grant G18\_392)

17 – 23 Jun 2018

**Université du Littoral – Côte d'Opale Dunkerque** (France)

(within Galileo Project Grant G18\_392)

16 – 28 Apr 2016

**Université du Littoral – Côte d'Opale Dunkerque** (France)

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## AREAS OF RESEARCH AND EXPERTISE

**1) Room Temperature Ionic Liquids (RTILs) and Deep Eutectic Solvents (DES)** as innovative media for sustainable chemistry: study of the liquid nanostructuration, solute-solvent interactions, extraction capability, absorption features and transport properties. The research is carried out with an olistic approach spanning from NMR spectroscopy to X-ray and neutron scattering, from molecular dynamics to synchrotron light assisted UV-Raman spectroscopy and synthetic applications for sustainable chemistry. This research line includes the use of DES and RTILs for the valorization of waste materials from natural sources (biomass), from industrial processes (recovery of critical raw materials from spent lithium ion batteries) and in the partitioning of lanthanides/minor actinides from spent nuclear waste.

**2) Molecular encapsulation** of active compounds in polymeric matrixes and porous materials: structure and dynamics by NMR spectroscopy,

high-resolution magic angle spinning NMR (HRMAS NMR), vibrational spectroscopies and molecular dynamics.

Non-covalent Interactions in Supramolecular Assemblies (host-guest complexes and micellar aggregates) via NOE data and diffusion NMR.

**3) DNA/RNA interaction with ionic liquids and DES:** new methods for the stabilization of nucleic acids solutions. The structural motives are investigated by high resolution NMR, synchrotron light assisted UV-Raman spectroscopy and molecular dynamics simulations.

**4) Cyclodextrin chemistry:** inclusion complexes and their structural characterization. Synthesis, characterization and applications of cyclodextrin nanospognges (CDNS) and related hydrogels. Study of their applications as sorbent materials for environmental remediation and scaffolds for drug delivery.

**5) Photoluminescent nanostructured materials:** synthesis, characterization and spectral properties of aza-helicenes and transition metal complexes of aza-helicenes

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## PATENTS

### 1) Process for the treatment of biomass

By: Mele, Andrea; Ferro, Monica; Colombo Dugoni, Greta

Assignee: Politecnico di Milano, Italy

Pat. No: WO2022106982 (May 27, 2022)

Kind: A1

Application No: WO 2021-IB60561 (Nov 15, 2021)

Priority application: IT 2020-27840 (A, Nov 19, 2020); WO 2021-IB60561 (W, Nov 15, 2021)

### 2) Decalcifying and scale removing composition

By: Mele, Andrea; Ferro, Monica; Colombo Dugoni, Greta

Assignee: Politecnico di Milano, Italy

Pat. No: WO 2021234621 (Nov 25, 2021)

Kind: A1

Application No: WO 2021-IB54371 (May 20, 2021)

Priority application: IT 2020-12028 (A, May 22, 2020)

### 3) Process for treatment of biomass consisting of dried and pulverized citrus pulp

By: Mele, Andrea; Ferro, Monica; Colombo Dugoni, Greta, Dispenza, Rosario

Assignee: Politecnico di Milano, Italy

Pat. No: WO 2021234620 (Nov 25, 2021)

Kind: A1

Application No: WO 2021-IB54370 (May 20, 2021)  
Priority application: IT 2020-12019 (A, May 22, 2020)

#### 4) Process for extracting and purifying chitin by using green solvents

By: Mele, Andrea; Ferro, Monica; Colombo Dugoni, Greta  
Assignee: Politecnico di Milano, Italy  
Pat. No: WO 2021059119 (Apr 1, 2021)  
Kind: A1  
Application No: WO 2020-IB58819 (Sept 22, 2020)  
Priority application IT 2019-16973 (A, Sept 23, 2019)

#### 5) Process for biomass treatment

By: Mele, Andrea; Castiglione, Franca; Ferro, Monica; Colombo Dugoni, Greta; Di Pietro, Maria Enrica; Mannu, Alberto; Panzeri, Walter  
Assignee: Politecnico di Milano, Italy  
Pat. No: WO 2020234761 (Nov 26, 2020)  
CA 3140607 (Nov 26, 2020)  
Kind: A1  
Application No: WO 2020-IB54727 (A, May 19, 2020)  
CA 2020-3140607 (A, May 19, 2020)  
Priority application IT 2019-7275 (A, May 23, 2019)  
WO 2020-IB54727 (W, May 19, 2020)

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### ACTIVITY AS EDITOR

2020 **Guest Editor** – *International Journal of Pharmaceutics*, special issue in Honor of Professor Thorsteinn Loftsson  
2019 **Editor** “Nanosponges and their applications”, Andrea Mele and Francesco Trotta Eds, Wiley.  
2019 **Guest Editor** – *Polymers*, special issue on [Cyclodextrin-Containing Polymers](#).  
2013 **Guest Editor** – *The Journal of Inclusion Phenomena and Macrocyclic Chemistry*, vol 75 special issue for the 2nd European Conference on Cyclodextrins

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### PUBLICATIONS AND BIBLIOMETRIC DATA (update 01 Jan 2025)

<i>Published papers (peer reviewed only)</i>	<b>263</b>
<i>Books and book chapters:</i>	<b>1 book (Editor), 3 book chapters (author).</b>
<i>H-index / citations (SCOPUS)</i>	<b>46 / 7547</b>
<i>H-index / citations (Google Scholar)</i>	<b>51 / 9270</b>
<i>IRIS public list of publications:</i>	

<https://re.public.polimi.it/browse?type=author&order=ASC&rpp=100&authority=rp13489#.YOKx0OgzZPY>

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## SCIENTIFIC COLLABORATIONS

- Hunter College at City University New York (USA)
  - École Normale Supérieur (ENS) de Lyon (F)
  - Scuola Normale Superiore di Pisa (Italy)
  - Imperial College London (UK)
  - Auckland University of Technology (New Zealand)
  - University of Tübingen (D),
  - University of Ulm (D)
  - University of Muenster (D)
  - University of Salamanca (E)
  - University of Burgos – ICCRAM (E)
  - King’s College London (UK)
  - Marquette University, Milwaukee (USA)
  - Osaka University (JP)
  - CNRS - Université Rennes1 (F)
  - CNRS – Villeurbanne (F)
  - Université Littoral Côte d’Opal Dunkerque (F)
  - University of Wien (AT)
  - University of Palermo, Bergamo, Milano, Pisa, Ferrara, Trento, Salento, Politecnico di Bari – Italy
  - National Research Council (CNR)
  - ENEA – Rome
  - ELETTRA Synchrotron Trieste.
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## MAIN PROPONENT IN LARGE SCALE FACILITIES EXPERIMENTS-APPROVED PROPOSALS

### Elettra Synchrotron Trieste

- Proposal **20230453**  
IUVS beamline@ELETTRA. *Water interaction with hydrophobic eutectic solvents studied by multi-wavelength UV Raman spectroscopy in the water pre-resonance region*
- Proposal **20220430**  
IUVS beamline@ELETTRA. *Network of interactions in prototypical hydrophobic eutectic solvents probed by multi-wavelength UV Resonance Raman spectroscopy*
- Proposal **20190397**  
IUVS beamline@ELETTRA. *A systematic investigation of Deep Eutectic Solvents / water mixtures*
- Proposal **20185445**  
IUVS beamline@ELETTRA. *Exploring the H-bond features in Deep Eutectic Solvents-Cyclodextrin-Water ternary systems*

### CERIC

- Proposal **20232207**  
IUVS beamline@ELETTRA. *Hydrocarbon Chain-Length Dependence of micro-heterogeneity in pseudo-Choline-Ethylene Glycol DES water solutions*
  - Proposal **20162014**
- 

IUVS beamline@ELETTRA and SSSI beamline@ELETTRA. *Enzymes in ionic liquids. What is the effect of Ionic Liquids (ILs) on the structure of an enzyme? A molecular investigation on a cellulase in different ILs.*

### CERIC-ERIC

- Proposal **20217188**  
IUVS beamline@ELETTRA and Small Angle Neutron Scattering@Budapest Neutron Centre *Strong micro-heterogeneities in Deep Eutectic Solvent (DES): a structural and molecular view*
  - Proposal **20147045**  
IUVS beamline@ELETTRA and 600 MHz NMR (magic) spectr@Slovenian NMR Centre. *Relaxation properties of a drug model in cyclodextrin-based cross-linked polymers: a combined NMR and Raman spectroscopy investigation*
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## REVIEWING ACTIVITY

<i>Referee</i>	Member of GEV (reviewers panel) for VQR 2014-2019 (Valutazione Qualità della Ricerca)
<i>Referee</i>	Italian Agency for Research Evaluation (CIVR, Comitato Indirizzo Valutazione Ricerca), Research Projects of National Relevance (PRIN), Italian Ministry for University and Research (MIUR) and VQR (Valutazione Qualità della Ricerca) since 16 November 2004
<i>Referee</i>	ERA-Chemistry “Open Initiative 2010”, EU Funding plan for Austria, Belgium, Germany, Hungary, Ireland and Spain participating countries.
<i>Referee</i>	National Research Foundation – South Africa. SOUTH AFRICA – ARGENTINA Science and Technology Research Cooperation - Joint call for project proposal 2011.
<i>Referee</i>	FRS-FNRS (Fonds de la Recherche Scientifique – Belgium), calls Large equipments – Infrastructures, Credit de Recherche 2011-today.
<i>Member</i>	International referees panel for the defence of PhD Thesis, CNRS-Université de Lyon 1-ESCPE Lyon (28 June 2016)
<i>Member</i>	International referees panel for the defence of PhD Thesis, University of Iceland at Reykjavik (18 January 2019)
<i>Member</i>	International referees panel for the defence of PhD Thesis, University of Southampton (3 February 2023)
<i>Member</i>	A3ES - Higher Education Accreditation, Portugal. Member of the reviewer panel of PhD School
<i>Referee</i>	ISI Indexed Journals: ACS Sustainable Chemistry and Engineering, Angewandte Chemie, Beilstein Journal of Organic Chemistry, Catalysis Today, Chemical Reports (Nature Publishing Group), ChemPhysChem, Chemistry – A European Journal, Chemistry – An Asian Journal, Chemical Sciences (RSC), Chemical Communications (RSC), Carbohydrate Polymers, Carbohydrate Research, European Journal of Organic Chemistry, European Journal of Pharmaceutical Sciences, Journal of Organic Chemistry (ACS), Journal of Physical Chemistry (ACS), Journal of Physical Chemistry Letters (ACS), Journal of Chemical Physics (APS), Journal of the American Chemical Society (ACS), Journal of Chemical & Engineering Data (ACS), Journal of the American Society for Mass Spectrometry (ASMS), Journal of Chromatography, Journal of Inclusion Phenomena and Macrocyclic Chem. Journal of Fluorine Chemistry, Langmuir (ACS), New Journal of Chemistry (RSC), PhysChemChemPhys (RSC), RSC Advances, Supramolecular Chemistry.

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## FUNDINGS

**1) PRIN 2022** - Project 20223W4RT9 - SEED4GREEN “A seed for the green transition. Tailoring Deep Eutectic Solvents for 5-Hydroxymethylfurfural (HMF) transformation”.  
*Role:* Project Coordinator.  
Sept 2023 - Aug 2025.

**2) PNRR – MICS (Made in Italy – Circular and Sustainable) Extended Partnership Next-GenerationEU funding programme (PIANO NAZIONALE DI RIPRESA E RESILIENZA (PNRR) – MISSIONE 4 COMPONENTE 2, INVESTIMENTO 1.3 – D.D. 1551.11-10-2022, PE00000004).**  
*Research project:* AMELIE “New approaches to recovery critical Metals from spent Lithium-ions batteries”. The Polimi unit will apply DES

technology to a solvometallurgic approach to element recovery from spent electrodes.  
*Role:* PI of Polimi Unit #1 project supervisor.  
Feb 2023 - Jan 2026

**3) PON “Ricerca e Innovazione” 2014-2020 – Grant for a 3 years Junior Research Fellowship (RTDA)**

*Research project:* Ionic liquids and eutectic solvents for sustainable chemistry. Design, structure, transport and solvation properties, application to recovery and up-cycling of secondary raw material.  
In the framework of “Green Technology”, emphasis will be given to monomer recovery

from industrial waste from textile fibers and packaging.

*Role:* Project supervisor.  
Jan 2022 – Dec 2024

**4) H2020-MSCA-RISE-2019 – WORLD (Waste Oils Recycle and Development – Project Number: 873005)**

*Research project:* The project WORLD aims to develop a virtuous green process for waste cooking oils (WCOs) recycling applying a circular economy model. An innovative fast and zero-waste production of biolubricants from (WCOs) will be developed employing green and recyclable raw materials (water and natural bentonites).

*Role:* Project Coordinator.

Project approved in 2019, suspended for Covid-19 pandemics and restarted in 2022 for 48 months.

**5) French-Italian Competitive Call “Galileo” 2018 – Grant G18-392 “New Supramolecular Green Solvents for VOC Abatement”.**

*Research project:* This project aims to develop new green solvents for the treatment of air pollution. The strategy consists in merging together the absorption properties of deep eutectic solvents (DES) and the ability of cyclodextrins to form host-guest complexes.

*Role:* PI of the Italian Partnership.

January 2018- January 2020.

**6) PhD Programme funded by Regione Lombardia and ENEA.** One grant for PhD scholarship (35th cycle) in the thematic area “Technologies for Sustainability”.

*Research project:* Structural organization and ion transport properties of ionic liquid-based polymer electrolyte systems for lithium and sodium batteries.

*Role:* Project supervisor.  
2020-2023.

**7) COST Action CM1206 EXIL - Exchange on Ionic Liquids.**

*Role:* Delegate for Italy in the Managing Committee.

22 February 2013 – 31 March 2017.

**8) PRIN 2010-2011 Progetto 2010FPTBSH\_008 “Nanotecnologie molecolari per il rilascio controllato di farmaci – NANOMED” (2010FPTBSH).**

*Role:* PI of the Research Unit Politecnico di Milano.

1 February 2013 - 31 January 2016.

**9) FP7 EU project “GREENLION: Advanced Manufacturing Processes for Low Cost GREENer Li-ION Batteries”.** GA: NMP2-LA-2011-285268.

*Role:* PI of the Research Unit Politecnico di Milano.

1 November 2011 – 31 October 2015.

**10 ) CARIPLO Bank Foundation Research Grant.** Project: “Nanostructured Photoluminescent Materials”. Grant 2007.5378.

*Role:* Project Coordinator.

14 February 2008-13 February 2010.

**Other fundings:**

PRIN 2002, 2003, 2006: Participant in Politecnico di Milano local unit.

The research activity and the recruitment of young scientist have been extensively based also on Research Contracts, Consultancy, Testing for Large and Small-Medium Enterprises since 2000. A non-exhaustive list of companies includes: *Agrolinz-Melamine Int. Italia – Lusochimica - ICAP-SIRA Chemicals and Polymers – Intercos Cosmetics – Mapei – ENI – Recordati Farmaceutici – Nearchimica – Oxon Sipcam Agrochemicals – Dipharma – OLON – BAXTER - AKZO NOBEL - NOURYON.*



## INTERNATIONAL INVITED AND PLENARY LECTURES

- 18) *Thirty years of Ionic Liquids.*

**Plenary Lecture**

IUPAC ISSP21, Novi Sad (Serbia) 2024

Chair: Slobodan Gazduric – University of Novi Sad, Serbia.

- 17) *Advanced NMR monitoring of the transport properties in hydrogels and eutectogels*

**Keynote Presentation**

SCI2024, Italian Chemical Society Plenary Meeting, Milano (I) 2024.

- 16) *Hydrophobic eutectic mixtures and eutectogels: structural and dynamic features*

**Keynote Presentation**

ILMAT2023 – 7<sup>th</sup> International Conference on Ionic Liquid Based Materials

Porto (P), 21 – 24 November 2023

Chair: Luís M. N. B. F. Santos – University of Porto, Portugal

- 15) *NMR on cyclodextrin characterization*

**Invited Lecture**

Workshop on the chemistry and advanced applications on environmental, industrial, pharma and agro-food of cyclodextrin monomers and polymers

University of Torino, 20<sup>th</sup> October 2023

Chair: Francesco Trotta – Università di Torino, Italy

- 14) *Protic Ionic Liquids: stand-alone systems and components for polymer electrolytes*

**Invited lecture**

3rd POLYSTORAGE WORKSHOP on Polymer electrolytes and ionic liquids for energy storage.

November 30 – December 1, 2021

University of Ulm (D)

Chair: Prof. Stefano Passerini KIT ULM

- 13) *Update on NMR spectroscopy in cyclodextrin chemistry*

**Plenary Lecture**

6<sup>th</sup> European Conference on Cyclodextrins

October 2-4, 2019

Santiago de Compostela (E)

Chair: Prof. Carmen Alvarez-Lorenzo - University of Santiago de Compostela---

- 12) *NMR Methods for Ionic Liquids Technology*

**Invited Lecture**

ReGall's Autumn School 2018

November 7-8, 2018

Santiago de Compostela (E)

Chair: Prof. Louis Miguel Varela Cabo – Faculty of Physics. Universidad de Santiago de Compostela

- 11) *NMR Methods for Ionic Liquids*

**Invited Speaker**

GORDON RESEARCH CONFERENCE

August 14-19, 2016

Newry, ME (USA)

Chair: Prof. Anja-Verena Mudring----

- 10) *Azahelicenes: synthesis, structural properties and use as ligands*

**Invited Speaker**

Institut de Sciences Chimique de Rennes

UMR 6626 CNRS-Université de Rennes 1

April 26, 2016

Chair: Prof. Jeanne Crassous



- 9) *Inside new materials: structure and dynamics of cyclodextrin-based polymers in solution and in the gel state*

**Plenary Lecture**

EUROCD 2015 – 4rd European Conference on Cyclodextrins

Lille (France) 6 – 9 October 2013

Chair: Prof. Bernard Martel – Université Lille 1 (France)

- 8) *Room Temperature Ionic Liquids (RTILs) for oil industry. A case study*

**Invited Conference**

ELETTRA Synchrotron Trieste

<https://www.elettra.trieste.it/science/seminars-archive.html?xid=20150012>

Trieste 27 May 2015

Chair: Dr Claudio Masciovecchio

- 7) *Cyclodextrin Nanosponges: Present and Perspectives*

**Invited Lecture**

3rd European Conference on Cyclodextrins

Antalya (Turkey) 2 – 4 October 2013

Chair: Prof. Erem Bilensoy – Hacettepe University (Ankara, Turkey)

- 6) *Mass Spectrometric Investigations on Host-Guest Complexes of Cyclodextrins.*

**Keynote lecture.**

1st French Italian Conference on Mass Spectrometry: Fundamentals and Applications of Mass Spectrometry.

Siena, 30 June – 4 July 2008.

Chair: Prof. Gianluca Giorgi – Università di Siena, Prof. Jean-Claude Tabet – Université Pierre et Marie Curie (Paris VI).

- 5) *Local Structure and Solvation Properties of Model Ionic Liquid [BMIm]<sup>+</sup> [BF4]<sup>-</sup>: an NMR and Molecular Dynamics Study.*

**Invited Lecture**

Global COE Program – Bio-Environmental Chemistry.

Osaka (Japan), 7 maggio 2008.

Chair: Prof. Yoshihisa Inoue – Osaka University

- 4) *Reverse Micelles: Structural Features and Synthesis of Nanoparticles.*

**Invited lecture**

Molecular Captors and Encapsulation Days.

Bruxelles (B), 3-4 Aprile 2008.

Chair: Prof. Kristin Bartik – ULB Bruxelles

- 3) *The Structure of Some Complexes of  $\beta$ -Cyclodextrin with Glycoconjugates via X-ray Crystallography and NMR Spectroscopy*

**Invited oral communication**

3rd Asian Cyclodextrin Conference.

Nankai University – Tianjin (P. R. China) 8 – 12 maggio 2005.

Chair: Prof. Yu Liu – Nankai University

- 2) *NOE Studies on 1-n-Butyl-3-Methylimidazolium Tetrafluoroborate ([BMIm]<sup>+</sup> [BF4]<sup>-</sup>) with and without Added Water.*

**Invited lecture**

CERC3-Chairman of the European Research Councils' Chemistry Committees.

Young Chemists' Workshop: Neoteric Solvents as Reaction Media: Reality and Future.

St. Malo (F), 17 – 21 aprile 2004.

Chair: Prof. Michel Vaultier – Université de Rennes.

- 1) *Investigation of the Structure of Ionic Liquids and their Interactions with Water by Nuclear Overhauser Effect.*

**Invited oral communication**

226th American Chemical Society National Meeting.

New York (USA), 7 – 11 settembre 2003.

Chair: Prof. Ken Seddon – QUILL Center at Queen's University in Belfast (UK)  
Prof. R. D. Rogers – University of Alabama  
Dr. S. Pandey – Indian Institute of Technology

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## ORGANIZATION OF WORKSHOPS AND SYMPOSIA

- 16) EUROCD 2025 – 8<sup>th</sup> European Cyclodextrin Conference  
9 – 12 September 2025 Milano (I)  
**Chair of the conference**
- 15) 6<sup>th</sup> International Cyclodextrin Summer School  
Genova, June 4 – 7, 2025  
**Co-chair of the School** (with Pr. Francesco Trotta UniTO)
- 14) ILMAT 2025 – 8<sup>th</sup> International Conference on Ionic Liquids Based Materials  
9 – 12 September 2025 Roma (I)  
**Member of the scientific board**
- 13) EUCHEMSIL2024 – 29<sup>th</sup> EuChem's conference on ionic liquids and molten salt.  
22-26 April 2024 Santiago de Compostela (E)  
**Member of the scientific board**
- 12) WORLD4BUSINESS – An entire day dedicated to business seminars and roundtables within invited companies, private firms, and entrepreneurs. The event is patrocinated by the Professional Order of Chemists and Physics of Lombardia (Ordine Interprovinciale dei Chimici dei Fisici della Lombardia)  
Milano, July 4, 2023.  
**Chair of the event**
- 11) 5<sup>th</sup> International Cyclodextrin Summer School  
Ascea Marina, September 4 – 7, 2022  
**Co-chair of the School** (with Pr. Francesco Trotta UniTO and Prof. Fabiana Quaglia UniNA)
- 10) Webinar of the European Society of Ionic Matter – Spectroscopy of Ionic Liquids  
International on line webinar for PhD candidates, 16-17 March 2022.  
**Chair of the event**
- 9) 4<sup>th</sup> International Cyclodextrin Summer School  
Milano, June 10 – 12, 2019  
**Chair of the School**
- 8) HR-MAS NMR: metabolomics and multivariate analysis.  
GIDRM NMR Day  
Milano, 6 June 2017  
**Chair of the Workshop**
- 7) Smart materials for technology: preparation, self-assembly, characterization, modeling  
VII WORKSHOP NAZIONALE AICING (Associazione Italiana Chimica per Ingegneria)  
Milano, 12-13 June 2017  
**Chair of the Workshop**
- 6) 3<sup>rd</sup> International Summer School on Cyclodextrins  
June 29-July 1, 2016, Asti (Italy)  
**Chair of the School**
- 5) Ionic liquids@polimi: technology and science  
International Workshop  
Milano, 23 October 2013  
**Chair of the Workshop**
- 4) 3<sup>rd</sup> European Conference on Cyclodextrins  
October 2-4, 2013, Antalya (Turkey)  
**Member of the International Scientific Board**

- 3) 2nd International Summer School On Cyclodextrins  
May 8-9, 2013, Giardini Naxos (Messina, Italy)  
**Member of the Scientific Board**
- 2)  $^1\text{H}$  High Resolution MAS NMR: perspectives and applications from physical-chemistry to  
biomedicine  
One-day workshop in collaboration with Società Chimica Italiana – GIDRM  
Milano 9 July 2012  
**Chair of the Workshop**
- 1) 1<sup>st</sup> Summer School on Cyclodextrins. Pharmaceutical Applications and State of the Art.  
June 6-8, 2010 – Research Centre of Porto Conte – Alghero (SS) Italy  
**Member of the Scientific Board**