

Invited talks/lectures (conferences/workshops/schools) (as of Aug, 23, 2022)

53. *From Clouds to Planets II: The Astrochemical Link*, to be held on 3-7 October 2022, Harnack Haus, Berlin (Germany).
52. MD-GAS (Molecular dynamics in the gas phase: experimental tools and methods) Training School, July 12-15, 2022, Trieste (Italy). Title: Applications to Astrochemistry.
51. 36th International Symposium on Free Radicals, July 3-8, 2022, Stockholm (Sweden). Title: Combined experimental and theoretical investigation of reactions involving atomic/diatomic radicals and leading to N-containing organic molecules in extraterrestrial environments
50. *THE INTERNATIONAL CHEMICAL CONGRESS OF PACIFIC BASIN SOCIETIES 2021*, Honolulu, Hawaii (USA), *Symposium: Misconceptions in Astrochemistry: A Chemist's Guide* – December 16 - 21, 2021 | Virtual. Title: Gas-phase chemistry in the interstellar medium: there is still much to learn
49. ECLA2020 - *European Conference on Laboratory Astrophysics*, September 26 – October 1, 2021, Anacapri (Italy). Title: Gas phase chemistry leading to interstellar complex organic molecules: there is still much to learn
48. *Chemical Processes in Solar-type Star-Forming Regions*, September 13-17, 2021, Torino (Italy). Title: Gas-phase chemistry in the interstellar medium: there is still much to learn
47. *Elucidating the Interstellar and Circumstellar Chemistry of Silicon Symposium @ Fall 2021 National Meeting of the American Chemical Society (ACS)*, August 22-26, 2021, Atlanta (USA). Title: SiS detection and formation/destruction routes in shocked low-mass star-forming regions
46. *Second School of ITN Astro-Chemical Origins (ACO)*, 12-16 July 2021, Padua (Italy). Title: Laboratory experiments for astrochemists
45. *COSPAR 2020, F3.5: "Pre-biotic and complex molecules in the universe: Observational, laboratory and computational perspectives on the evolution of molecular complexity"*. January 28 – February 4, 2021, Sydney (Australia). Title: Deuterium enrichment of interstellar complex organic molecules in gas-phase chemistry.
44. *First Year School of ITN Astro-Chemical Origins (ACO)*, 2-20 December 2019, Perugia (Italy). Title: Laboratory experiments for astrochemistry: neutral-neutral reactions.
43. *The Physics and Chemistry of the Interstellar Medium – Celebrating the first 40 years of Alexander Tielens' contribution to science* – 2-6 September 2019, Avignon (France). Title: Gas-phase chemistry in the interstellar medium: there is still much to learn (Review Talk)
42. *French-Mexican Advanced School on the Origins and Evolution of Life 2019*, 1-5 July 2019, Paris (France). Title: The role of gas-phase reactions in prebiotic chemistry
41. *Atomistic simulations in prebiotic chemistry – a dialog between experiment and theory* (CECAM workshop), 1-5 July 2019, Paris (France). Title: The role of gas-phase reactions in prebiotic chemistry
40. *New Quests in Stellar Astrophysics IV - Astrochemistry, Astrobiology and the Origin of Life*, Puerto Vallarta (Mexico), March 31 - April 5, 2019. Title: Gas-phase chemistry and molecular complexity in space: how far do they go?
39. *International Conference on Combustion Physics and Chemistry*, Samara (Russia), July 24-28, 2018 (*cancelled for personal problems*). Title: Reactions of oxygen atoms with aliphatic and aromatic hydrocarbons by crossed beam experiments

38. *European Week of Astronomy and Space Science (EWASS 2018), Special Session 5: Complex organic molecules in the Universe: current understanding and perspectives*, Liverpool (UK), April 3-6, 2018. Title: Gas-phase formation routes of interstellar complex organic molecules
37. *Prebiotic Molecules in Space and Origins of Life on Earth*, Bad Honnef (Germany), March 19-23, 2018. Title: Gas phase chemistry and molecular complexity: how far do they go?
36. *XXI Symposium on Atomic, Cluster and Surface Physics (SASP2018)*, Universitätszentrum Obergurgl (Austria), February 15, 2018. Title: Reactions of oxygen and nitrogen atoms with aliphatic and aromatic hydrocarbons by crossed beam experiments
35. *WG1/WG2 workshops of the COST Action CM1401 Our Astro-Chemical History*, Ciudad Real (Spain), December 11-13, 2017 (*cancelled for personal problems*). Title: The role of atomic oxygen chemistry in the interstellar medium
34. *XXIV International Symposium on Free Radicals (ISFR2017)*, Hayama (Japan), August 28 - September 1, 2017. Title: Reactions of atomic radicals with aliphatic and aromatic hydrocarbons by crossed beam experiments
33. Workshop "*Esobiologia ed ambienti estremi: dalla chimica delle molecole alla biologia degli estremofili*", Sede ASI, Roma, December 13, 2016. Title: Chimica prebiotica in fase gassosa
32. *252nd National Meeting, Symposium on Frontiers of Solar System Chemistry: Planets to Comets and Beyond (Astrochemistry Subdivision)*, Philadelphia (USA), August 21-25, 2016. Title: Neutral gas-phase chemistry in upper planetary atmospheres
31. *41st COSPAR Scientific Assembly*, Istanbul (Turkey), 30 July - 7 August 2016 (*the meeting was cancelled*). Title: Gas phase chemistry and molecular complexity: how far do they go?
30. *XXIII European Conference on Atomic and Molecular Physics of Ionized Gas*, Bratislava (Slovakia), July 12-16, 2016. Title: The reactions of atomic oxygen with alkenes and alkynes: primary products, branching ratios and role of intersystem crossing
29. *GoCAS Workshop "Origins of Habitable Planets"*, Goteborg (Sweden), May 16-20, 2016. Title of the first talk: Gas phase chemistry in the interstellar medium. Title of the second talk: Experimental methods to investigate the chemistry of the interstellar medium: highs and lows
28. *From Star and Planet Formation to Early Life*, Vilnius (Lithuania), April 25-28, 2016. Title: Gas phase chemistry and molecular complexity: how far do they go?
27. *1st Italian Workshop on Astrochemistry - Astronomical Complex Organic Molecules in Different Environments*, Palazzo Strozzi, Firenze, March 10-11, 2016. Title: Gas-phase formation routes of complex organic molecules in the interstellar medium
26. *Colloquium on kinetics and scattering theory for astrophysics*, Max Planck Institute for Extraterrestrial Physics, Garching (Germany), November 26 -27, 2015. Title: Revisiting gas-phase chemistry in astrochemical models
25. *From clouds to protoplanetary disks: the astrochemical link*, Hans Harnack Haus, Berlin (Germany), October 4-9, 2015. Title: Gas-phase formation routes of complex organic molecules in the interstellar medium
24. *XIII Iberian Joint Meeting on Atomic and Molecular Physics (IBER2015)*, Aveiro (Portugal), September 6-9, 2015. Title: Product branching ratio and extent of intersystem crossing in atomic oxygen reactions with unsaturated hydrocarbons

23. *Dynamics of Molecular Collisions XXV*, Asilomar Conference Centre, Monterey (USA), July 12-17, 2015. Title: Product branching ratio and extent of intersystem crossing in atomic oxygen reactions with unsaturated hydrocarbons
22. *First General Meeting of the COST Action CM1401 "Our Astrochemical History"*, Prague (Czech Republic) May 25 - 29, 2015. Title: Introductory talk on the activities of the Working Group 1 "Gas phase chemistry"
21. *Materia extraterrestre ed esplorazione dello spazio*, Bari (Italy), November 12, 2014. Title: Molecole complesse nel mezzo interstellare
20. *Our Common Origins*, University College London, London (UK), November 18-19, 2013. Title: Updates on gas-phase experiments of rate coefficients
19. *ACS 246th National Meeting*, Indianapolis (USA), September 8-12, 2013. Title: Chemical frontiers in solar system exploration
18. *Brittany Synchrotron Radiation School*, Rennes (France), March 25-29, 2013. Title: Crossed molecular beam experiments with soft-ionization mass spectrometric detection
17. *V Encuentro de Dinamica Molecular – Avances en Astroquímica y Química Atmosférica*, Salamanca (Spain), February 28, 2013. Title: Hydrocarbon growth in interstellar clouds and implications for prebiotic chemistry
16. *The Warm Universe: Astrochemistry at Hot and Intermediate Temperatures*, Tallinn (Estonia), May 29 – June 2, 2012. Title: Reactions of atomic oxygen with unsaturated hydrocarbons: the break-up of carbon atom skeleton
15. *S. Barthelemy Astronomy Summer School*, Osservatorio Astronomico della Regione Autonoma Valle d'Aosta, Nus (Italy), July 25-29, 2011. Title of the first lectio magistralis: Cosmochemistry. Title of the second lectio magistralis: The atmosphere of Titan
14. *NIS Colloquium 'First chemical steps towards the origin of life'*, Museo Regionale di Scienze Naturali, Torino (Italy), September 16-15, 2010. Title: Gas-phase prebiotic chemistry in the Solar System: how and where
13. *The ALMA Telescope: Heralding a new era of astrochemistry*, Boppard (Germany), May 9-12, 2010. Title: Crossed-beam studies of astrophysically relevant atom-neutral reactions
12. *Láseres y Espectroscopia Avanzada en Química (QUIMILASER)*, Seville (Spain), February 2010. Title: Recent progress in reaction dynamics studies with crossed molecular beams
11. *XXVII International Astronomical Union General Assembly, Special Session SpS06 'Planetary Systems as Potential Sites for Life'*, Rio de Janeiro (Brazil), August 2009. Title: Gas-phase prebiotic chemistry in extraterrestrial environments
10. *XXIII International Symposium on Molecular Beams*, Dalian (China), June 1-5, 2009. Title: Crossed molecular beam studies of S(1D) and N(2D) reactions with simple hydrocarbons
9. *XII ISSOL Meeting - XV International Conference on the Origin of Life*, Firenze, August 24-29, 2008. Title: Gas-phase prebiotic chemistry in the Solar System: how and where
8. *Atomic and Molecular Interactions Gordon Conference 2008*, Colby Sawyer College, New London, NH (USA), July 6-11, 2008. Title: Crossed molecular beam studies of astronomically relevant bimolecular reactions

7. *1st Italian Astrobiology Society Workshop*, Cortona (Italy), May 29-30, 2008. Title: Gas-phase reactions relevant to prebiotic chemistry: a laboratory investigation by the crossed molecular beam technique.
6. *Second Workshop on 'Titan - Observations, Experiments, Computations, and Modeling'*, Miami, Florida (USA), March 24-26, 2008. Title: Crossed molecular beam studies of gas phase reactions relevant to the atmospheric chemistry of Titan
5. *XXIX International Symposium on Free Radicals*, Big Sky, Montana (USA), August 12-17, 2007. Title: Crossed molecular beam studies of radical-molecule and radical-radical reactions.
4. *IUGG XXIV General Assembly "Earth: our changing planet"*, Session #JMS013 Aeronomy of Planetary Atmospheres: Comparative Planetology, Perugia (Italy), July 2-17, 2007. Title: Gas-phase neutral-neutral reactions in planetary atmospheres.
3. *XVI European Conference on Dynamics of Molecular Systems*, Levico Terme (Italy), September 11-15, 2006. Title: Crossed molecular beam studies of radical-radical reactions:  $O(3P)+CH_3$  and  $O(3P)+C_3H_5$
2. *2005 International Chemical Congress of Pacific Basin Societies (PACIFICHEM)*, Honolulu (Hawaii, USA), December 15-20, 2005. Title: Neutral-neutral reactions in extraterrestrial environments
1. Final Meeting of the Training and Mobility of Researchers (TMR) Network on "Astrophysical Chemistry", Perugia, April 4-5, 2002. Title: Crossed beam studies of CN and C<sub>2</sub> reactions relevant to the formation of hydrogen deficient molecules in extraterrestrial environments