

Contact Details

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Teaching Experiences

2017/2020 Teaching experience at undergraduate schools in *Mathematics and physics*

2002/2003 Teacher at CEPU for graduate school students in *Mathematical Analysis I and II*

1997/1999 Teaching experience at undergraduate schools in *Mechanics, Electro-Technique, Electronics, and Digital Electronics*

Professional Experience

2022 National Institute of Geophysics and Vulcanology, Rome, Italy. *FURTHER*

2022/2025 National Institute of Geophysics and Vulcanology, Rome, Italy. *Limadou science +*

2015/2017 SARA Electronics, Perugia, Italy. *Theory, hardware, software and applications for seismology*

2012/2015 Seismic Observatory "Andrea Bina" of Perugia, Italy. Project on: *A new type of meteorological instrument*

2011/2012 Anglia Ruskin University, Cambridge, UK. Support for a PhD on: *Animal behaviour observed with earthquakes, experimental strategies*

2010/2011 National Institute of Nuclear Physics, Perugia, Italy. *Correlation data analysis between cosmic ray bursts and geophysical effects*

2009/2010 National Institute of Nuclear Physics, Perugia, Italy. *Correlation algorithm development to study NOAA data and seismic phenomena*

2009/2009 SERMS, Terni, Italy. *Study of the seismic effect perception from the L'Aquila population*

2008/2009 National Institute of Nuclear Physics, Perugia, Italy. *Sampex data analysis and correlations between cosmic ray particle bursts and geophysical effects*

2007/2007 National Institute of Nuclear Physics, Perugia, Italy. *Algorithm development to study the Van Allen Belts stability*

2006/2007 National Institute of Nuclear Physics, Perugia, Italy. *ASI-LUNA project to propose scientific experiments on the Moon*

2006/2007 Agenzia Spaziale Italiana, Luna project, Perugia, Italy. *Simulation of a calorimeter for cosmic rays on the moon*

2005/2007 Italian Committee for Project Hessdalen, Bologna, Italy. *Scientific support for physical evaluation and hypotheses*

2004/2005 National Institute of Geophysics and Vulcanology, L'Aquila, Italy. *Electromagnetic emissions linked to tectonic and volcanic activity*

2003/2004 National Laboratory of Gran Sasso, L'Aquila, Italy. *Development of calculus methodologies in the seismological fields on the parallel calculator IBM pSeries 670*

2002/2003 Università di Camerino, Camerino, Italy. *Study of the effects of lateral and radial non-homogeneity on co-seismic superficial deformations*

2001 Camerino University, Camerino, Italy. *Penning Traps*

2001 Camerino University and F.lli Guzzini Spa, Recanati, Italy. *Deposition of thin metal films on polymeric surfaces*

Education

2025 National scientific qualification for the university professor of second level in the competitive sector 04/A4 - Geophysics

2002 Ph.D. Physics, Camerino University, thesis: *Error probability in non-linear dispersive optical fibres*

1999 Hiking Guide, provinces of Ascoli Piceno and Fermo

1997 Military Service, military district of Ancona

1996 Deg. Physics. Camerino University, thesis: *Signal to noise ratio in non-linear optical fibres having third-order susceptibilities*

1989 Diploma in Electronics, ITIS Montani, Fermo

Professional skills

- Operating systems: UNIX, Ubuntu, Macintosh, Windows 9x, XP, VISTA, 7, 8, 10
- Software: Word, Office, LaTeX, Excel, Origin, Mathematica, Matlab, Maple, Octave, Spectrmlab, Root, WordPress, Spice, Seismowin, QGIS, Surfer, PicoScope, Statistica, ThermaGram, modbuspoll
- Programming: Monte Carlo simulations in Fortran and C, the Okada direct model of co-seismic deformations from the fault geometry; Inversion algorithms on a parallel calculator with Adaptive Simulated Annealing and Neighbourhood Algorithm; N-tuple data analysis in Fortran, HBOOK Cern libraries; Geomagnetic models in Fortran, IGRF12; Monte Carlo simulations in C++ with Geant4; Orbital motion and changes in the coordinates of the Earth, the Moon, Planets and their tidal effects; calculus of the Total Harmonic Distortion, ray propagation in a stratified medium, pixel recognition, wave peaking, HVSR, fractal dimension and Hurst exponent in Basic and Visual Basic, IR camera acquisition and analysis
- Electronics: 1) component knowledge; 2) soldering; 3) servicing and testing electronic circuits; 4) electric field meter realisation; 5) magnetic induction meter realisation; 6) electronic project building; 7) printed circuit board realisation; 8) radio receiver and transmitter realisation; 9) GPS rtx adaptation; 10) serial, parallel and USB ports I/O; 11) power supply realisation; 12) digital electronics experiences; 13) computer hardware; 14) recycling of electronics; 15) CO₂-temperature-humidity sensors
- Project and realization of a remote, self-powered by solar panels, multidisciplinary observational station composed of acoustic, electromagnetic, meteorologic, and several gas detectors
- Theory of electromagnetic interaction with matter: electric and magnetic constants in linear and non-linear media as well as electromagnetic waves in solids, gases and liquids; quantum theory of the electromagnetic field; quantum theory of atom-photon interaction; charged particles in the electromagnetic field; Van Allen Belts; ionospheric processes; atmospheric electric circuit, waves in the crust, ellipticity curves in a stratified medium with dissipation
- Database: NOAA, SAMPEX, and CSES satellite statistical data analysis and verification of the correlation between particle bursts and seismic activity obtained in previous works
- Statistics: distribution with special functions, confidence, error probability, likelihood, significance hypothesis tests, Matthews and Pearson correlations, confusion matrix
- Test beam: participation at the Frascati National Laboratory to test the feasibility of the AIGLON particle detector dedicated to the study of earthquakes from satellites
- meteorology: meteo station maintenance, electrodynamic pluviometer, WMO criteria for rainfall intensity gauges

Professional Projects

- 2025 - present** Scientific collaboration agreement between the Tuscany Region and the Institute of Geosciences and Georesources of the CNR of Pisa for the prosecution of the “Management and updating of the existing Geochemical Network”
- 2024 - present** ISSI Investigation of the Lithosphere Atmosphere Ionosphere Coupling (LAIC) Mechanism before the Natural Hazards, as External Expert, International Space Science Institute, Hallerstrasse 6, 3012 Bern, Switzerland
- 2022 - 2025** Limadou science + Earthquake related processes occurring in atmosphere and ionosphere by CSES01, WP1-UA 3. MATLAB implementation of particle flux analysis to search for correlations between particle losses and seismic activity
- 2022 - 2025** FURTHER The role of FIUids in the pReparaTory pHase of EaRthquakes in Southern Apennines, WP 5, Geo-space. Implementation of a multi-parameter monitoring station of the atmosphere at the Mefite site in the Ansanto Valley (AV), Italy
- 2021** Collaborative project for Indo-Italian Joint Research, ITALY-INDIA JOINT SCIENCE AND TECHNOLOGY COOPERATION CALL FOR JOINT PROJECT PROPOSALS FOR THE YEARS 2021-2023, as “Significant Projects” in Characterization of ELF/VLF signatures related to severe weather and strong earthquakes for geohazard risk reduction
- 2019 - present** Extension of the Central Italy Electromagnetic Network to monitor ULF and ELF magnetic fields, Radon, and CO₂ emissions in the five station of the network, building mu-metal core magnetometers and low voltage Radon detectors
- 2013 - 2016** Project financed by the Umbria Region on a meteorological instrument patented as ELECTRODYNAMIC PLUVIOMETER; the prototype development and experimentation were carried out at the “A. Bina” Observatory in Perugia
- 2011** Collaborative Project LOTHAR, FP7-ENV-2012-two-stage, proposes a focused effort on continuous monitoring of processes at the ground-to-air and ground-to-water interfaces around active seismic zones, combined with concomitant monitoring of the seismic activity as well as electromagnetic and related phenomena
- 2008 - present** An analysis is being performed on the CIEN data to compare them to earthquakes, meteorology, atmospheric transient luminous phenomena, and ionospheric phenomena
- 2007 - present** NOAA satellite statistical data analysis in adiabatic coordinates to search a correlation between particle bursts and seismic activity, a result was obtained which was in agreement with previous works
- 2006 - 2016** Constitution of the CIEN to study ELF and VLF electric field in a seismic area, with 16 operative stations in 2015
- 2006 - 2008** A recording system for CIEN data was realised by personal computer
- 2003 - 2007** Realisation of CIEN instruments and their further enhancement through experimentation
- 2000 - 2005** Historic-bibliographical research to determine the best type of electromagnetic monitoring system in ULF, ELF, VLF and LF bands in order to fully record and carry out spectrum analyses and compare geophysical phenomena

Mentions

- Nature, *Earthquake lights linked to rift zones*, by Alexandra Witze on 2 January 2014
- Science, *Scientists Try to Counter Rome Earthquake Fear*, by Edwin Cartlidge on 10 May 2011

Patents

Electrodynamic Pluviometer No. 102016000077834; deposited on July 25, 2016; approved on January 31, 2019. A wide range of rainfall levels and evaporations-free is now measurable through this invention which archives the measurements with resolutions of seconds and with no mechanical parts. This small pluviometer, compared to the currently used one, is a fully solid-state device.

Journal Editor and Reviewer Boards

- *Remote sensing*, published monthly online by MDPI, IF=4.1, CS=8.6, as Guest Editor, November 2025
- *Continent and Life Evolution*, published monthly online by ELSA, as an Editorial Board Member, October 2024
- *Geosciences*, published monthly online by MDPI, IF=2.4, CS=5.3, as Guest Editor, September 2024
- *Frontiers in Astronomy and Space Sciences*, pub. monthly online, IF=2.6, CS=3.4, as Reviewer Board Member, September 2023

Referred Publications

- C. Fidani, M. Siciliani, *Low-Cost Electrodynamic Pluviometers for Flood and Debris Flow Monitoring*. Sustainability, 17, 9662, 2025
- A. Piscini, C. Fidani, *A novel algorithm for thermal monitoring using ECOSTRESS time series: the case of Campi Flegrei, Naples, Italy*, Remote Sensing Letters, 16(3), 326-338, 2025
- G. Cianchini, M. Calcara, A. De Santis, A. Piscini, S. D’Arcangelo, C. Fidani, D. Sabbagh, M. Orlando, L. Perrone, S. A. Campuzano, M. De Caro, A. Nardi, M. Soldani, *The Preparation Phase of the 2023 Kahramanmaraş (Turkey) Major Earthquakes from a Multidisciplinary and Comparative Perspective*, Remote Sensing, 16(15), 2766, 2024
- M. Orlando, A. De Santis, M. De Caro, L. Perrone, S. A. Campuzano, G. Cianchini, A. Piscini, S. D’Arcangelo, M. Calcara, C. Fidani, A. Nardi, D. Sabbagh, M. Soldani, *The Preparation Phase of the 2022 ML 5.7 Offshore Fano (Italy) Earthquake: A Multiparametric–Multilayer Approach*, Geosciences, 14(7), 191, 2024
- X. Zhang, A. De Santis, J. Liu, S. A. Campuzano, N. Yang, G. Cianchini, X. Ouyang, S. D’Arcangelo, M. Yang, M. De Caro, X. Li, C. Fidani, H. Liu, M. Orlando, L. Nie, L. Perrone, A. Piscini, L. Dong, D. Sabbagh, M. Soldani, P. Xiong, *Pre-earthquake oscillating and accelerating patterns in the Lithosphere-Atmosphere-Ionosphere coupling (LAIC) before the 2022 Luding (China) Ms6.8 earthquake*, Remote Sensing, 16(13), 2381, 2024
- C. Fidani, S. D’Arcangelo, A. De Santis, L. Perrone, M. Soldani, *Investigating a Possible Correlation between NOAA-Satellite-Detected Electron Precipitations and South Pacific Tectonic Events*, Remote Sensing, 16, 1059, 2024
- L. Pierotti, C. Fidani, G. Facca, F. Gherardi, *Cross-Correlation among Seismic Events, Rainfalls, and Carbon Dioxide Anomalies in Spring Water: Insights from Geochemical Monitoring in Northern Tuscany, Italy*, Water, 16, 739, 2024
- S. Colucci, C. Fidani, *The outer ring of a circular structure in the Marche Region, Central Italy: Evidence of a non-extraterrestrial origin*, Journal of Geography and Cartography, 6(2):2187, 2023
- S. D’Arcangelo, M. Regi, A. De Santis, L. Perrone, G. Cianchini, M. Soldani, A. Piscini, C. Fidani, D. Sabbagh, S. Lepidi, D. Di Mauro, *A multiparametric-multilayer comparison of the preparation phase of two geophysical events in the Tonga-Kermadec subduction zone: the 2019 M7.2 Kermadec earthquake and 2022 Hunga Ha’apai eruption*, Front. Earth Sci. 11:1267411, 2023
- V. Vitale, C. Neubüser, R. Battiston, F. M. Follega, W. J. Burger, M. Babu, L. Conti, M. Cristoforetti, G. D’Angelo, C. Fidani, S. D’Arcangelo, M. Martucci, M. Mergè, A. Oliva, M. Orlando, A. Parmentier, M. Piersanti, D. Recchiuti, et al., *Electron Signal Induced by GRB 221009A on Charged Particle Telescopes of POES and MetOp Satellites*, APJ, 952, 159, 2023
- C. Fidani, F. Gherardi, G. Facca, L. Pierotti, *Correlation between small earthquakes and CO₂ anomalies in spring waters: a statistical experiment on the probability of seismic occurrence*, Frontiers in Earth Science 11:1128949, 2023

- C. Fidani, *The Conditional Probability of Correlating East Pacific Earthquakes with NOAA E. Bursts*, Appl. Sci., 12, 10528, 2022
- S. D'Arcangelo, A. Bonforte, A. De Santis, S. R. Maugeri, L. Perrone, M. Soldani, G. Arena, F. Brogi, M. Calcara, S. A. Campuzano, G. Cianchini, A. Del Corpo, D. Di Mauro, C. Fidani, A. Ippolito, S. Lepidi, D. Marchetti, A. Nardi, M. Orlando, A. Piscini, M. Regi, D. Sabbagh, Z. Zhima and R. Yan, *A Multi-Parametric and Multi-Layer Study to Investigate the Largest 2022 Hunga Tonga-Hunga Ha'apai Eruptions*, Remote Sensing, 14, 3649, 2022
- S. Colucci and C. Fidani, *Preliminary geomorphological and hydrographical characterization of a circular structure in the Marche Region (Central Italy) and its possible origin*, Géomorphologie : relief, processus, environment, 28(2), 1-29, 2022
- C. Fidani, *Transfer Entropy of West Pacific Earthquakes to Inner Van Allen Belt Electron Bursts*, Entropy, 24(3), 359, 2022
- F. Di Stefano, G. G. Giuliani, D. Ouzounov, D. Cataldi, C. Fidani, A. D'Errico and G. Fioravanti, *Prevention and preparedness of the Messina – Reggio Calabria strait: an earthquake forecasting and didactic project*, Atti della Accademia Peloritana dei Pericolanti, Classe di Scienze Fisiche, Matematiche e Naturali, 99, S1, A40, 2021
- C. Fidani, *West Pacific Earthquake Forecasting Using NOAA Electron Bursts With Independent L-Shells and Ground-Based Magnetic Correlations*, Frontiers in Earth Science, section Environmental Informatics and Remote Sensing, 9:673105, 2021
- C. Fidani, M. Orsini, G. Iezzi, N. Vicentini, F. Stoppa, *Electric and magnetic recordings by Chieti CIEN Station during the intense 2016–2017 seismic swarms in Central Italy*, Frontiers in Earth Science, section Solid Earth Geophysics, 8:536332, 2020
- C. Fidani, *Probability, Causality and False Alarms Using Correlations Between Strong Earthquakes and NOAA High Energy Electron Bursts*, Annals of Geophysics, Vol. 63, No. 5, PA543, 2020
- C. Fidani, *Improving Earthquake Forecasting by Correlations Between Strong Earthquakes and NOAA Electron Bursts*, TAO, Vol. 29, No. 2, 117-130, 2018
- C. Fidani, W. Balderer and F. Leuenberger, *The Possible Influences of the 2012 Modena Earthquakes on the Fluorescence Spectra of Bottled Mineral Water*, Hydrology Current Research, 8:4, 288, 2017
- C. Fidani and D. Marcelli, *Ten Years of the Central Italy Electromagnetic Network (CIEN) Continuous Monitoring*, Open Journal of Earthquake Research, 6, p. 73-88, 2017
- C. Fidani, *Particle precipitation prior to large earthquakes of both the Sumatra and Philippine Regions: a statistical analysis*, Journal of Asian Earth Science, 114, p. 384-392, 2015
- C. Fidani and G. Martinelli, *A Possible Explanation for Electric Perturbations Recorded by the Italian CIEN Stations Before the 2012 Emilia Earthquakes*, Bollettino di Geofisica Teorica Applicata, 56, n. 2, p. 211-226, June 2015
- C. Fidani and M. de Crescenzi, *Morphology Analysis of Cu Film Fractures in Sandwiched Methylmethacrylate Plates*, Materials Science, 21(2), p. 220-225, 2015
- G. de Liso and C. Fidani, *Electrical Charges Associated with Sky Darkening and the Turin Shroud*, International Journal of Development Research, 4(12), p. 2790-2793, 2014
- C. Fidani, F. Freund and R. Grant, *Cows Come Down from the Mountains before the (Mw = 6.1) Earthquake Colfiorito in September 1997: a Single Case Study*, Animals, 4, p. 292-312, 2014
- G. de Liso, C. Fidani and A. Viotto, *Multi-parametric monitoring system of associated seismic phenomenology and unusual animal behaviour in Western Piedmont*, Advances in Research, 2(6), p. 303-319, 2014
- G. de Liso and C. Fidani, *Seismic Precursory Phenomenology in Unusual Animal Behaviour in Val Pellice, Western Piedmont, in Comparison with Anomalies of some physical Parameters*, Open Journal of Earthquake Research, 3, p. 30-42, 2014
- G. de Liso, C. Fidani and A. Viotto, *Unusual animal behaviour before earthquakes and multiple parameter monitoring in Western Piedmont*, Earth Science, 3(1), p. 14-25, 2014
- C. Fidani, *Biological Anomalies around the 2009 L'Aquila Earthquake*, Animals, 3, p. 693-721, 2013
- X. Zhang, C. Fidani, J. Huang, X. Shen, Z. Zeren and J. Qian, *Burst increases of precipitating electrons recorded by the DEMETER satellite before strong earthquakes*, NHESS, n. 13, p. 197-209, 2013
- C. Fidani, *The Raffaele Bendandi earthquake warnings based on planetary positions*, New Concepts in Global Tectonics Newsletter, n. 65, p. 47-54, December 2012
- C. Fidani, R. Battiston, W. Burger and L. Conti, *A study of NOAA particle flux sensitivity to solar activity and strategies to search for correlations among satellite data and earthquake phenomena*, Int. J. Rem. Sensing, 33, n. 15, p. 4796-4814, 10 August 2012
- C. Fidani, *Statistical and spectral properties of the L'Aquila EQL in 2009*, Boll. Geofis. Teor. Appl., 53, 1, 135-146, March 2012
- C. Fidani, *The Central Italy Electromagnetic Network and the 2009 L'Aquila earthquake: observed electric activity*, geosciences, 1, p. 3-25, December 2011
- G. Ambrosi, R. Battiston, W. J. Burger, C. Fidani, M. Ionica, G. Castellini, C. Guandalini, G. Laurenti and S. Lucidi, *Aiglon: A Magnetic Spectrometer for Geophysics*, Astroparticle, Particle, Space Physics, Radiation Interaction, Detectors and Medical Physics Applications, Vol. 7, 13th ICATPP Conference, ISBN 978-981-4405-06-5, World Scientific Publishing, October 2011
- C. Fidani, R. Battiston and W. Burger, *A Study of the Correlation between Earthquakes and NOAA Satellite Energetic Particle Bursts*, Remote Sensing, vol. 2, p. 2170-2184, 2010
- C. Fidani, *The EQLs of the L'Aquila earthquake, April 6, 2009*, NHESS, vol. 10, p. 967-978, 2010
- R. Battiston, M. T. Brunetti, F. Cervelli, C. Fidani and M. Menichelli, *A Moon-borne electromagnetic calorimeter*, Astrophys. Space Sci., Vol. 323, p. 357-366, 2009
- C. Fidani and R. Battiston, *Analysis of NOAA particle data and correlations with seismic activity*, NHESS, 8, p. 1277-1291, 2008
- A. Amoroso, L. Crescentini and C. Fidani, *Effects of crustal layering on source parameter inversion from co-seismic geodetic data*, Geophys. Jour. Int., Vol 159, p. 353-364, 2004
- C. Fidani and P. Tombesi, *Decreasing Error Probability in Optical Transmission Line*, Physical Review A 65, 033815, 2002

Conference Proceedings

- C. Fidani, *Meaning and use of statistical correlations between moderate seismic activity in Central Italy and atmospheric electric observations made by CIEN*, 111th CONGRESSO NAZIONALE SOC. ITALIANA DI FISICA, Palermo, September 22-26, 2025
- A. Piscini, C. Fidani, *Monitoring volcanic unrest at Mount Etna (Italy) using satellite land surface temperature time series from satellite data*, 111th CONGRESSO NAZIONALE SOC. ITALIANA DI FISICA, Palermo, September 22-26, 2025
- S.A. Campuzano, A. De Santis, G. Cianchini, L. Perrone, D. Sabbagh, M. Orlando, M. De Caro, S. D'Arcangelo, C. Fidani, M. Soldani, *Comprehensive precursory processes analysis of multiple earthquake case studies from a multiparametric and multilayer point of view*, IAGA / IASPEI 2025, Lisbon, August 31-September 5, 2025
- L. Pierotti, G. Facca, C. Fidani, F. Gherardi, *Correlations between low seismic events and CO₂ variations in the geochemical*

- network of Tuscany (GNT), Italy, International Symposium on Earthquake Forecasting to Commemorate the 50th Anniversary of the 1975 Haicheng M7.3 Earthquake, session S05, HCEQ2025-316, July 8-11, 2025
- X. Zhang, A. De Santis, P. Xiong, G. Cianchini, J. Liu, S. Campuzano, A. Yisimayili, S. D'Arcangelo, X. Li, C. Fidani, M. Yang, L. Perrone, H. Liu, S. Wang, M. Feng, *The lithosphere-atmosphere-ionosphere coupling processes around the Wushi Ms7.1 earthquake in 2024*, EGU General Assembly, EGU25-2731, April 27-May 2, 2025
 - G. Cianchini, A. De Santis, M. Calcara, L. Perrone, S.A. Campuzano, S. D'Arcangelo, M. Orlando, D. Sabbagh, A. Piscini, C. Fidani, *The Preparatory Phase of the 2023 Kahramanmaraş (Turkey) Major Earthquakes: A Multidisciplinary and Comparative Analysis*, EGU General Assembly, EGU25-8899, April 27-May 2, 2025
 - C. Fidani, *One year of underground CO₂ concentration recordings at CIEN station of San Procolo, Fermo*, 43rd GNGTS session 1.2, Bologna, p. 17-20, February 11-14, 2025
 - D. Marchetti, C. Fidani, *Causality in particle bursts and magnetic field (NOAA-SWARM) data possibly related to the Taiwan earthquake, Mw = 7.4, April 3, 2024*, 43rd GNGTS session 1.3, Bologna, p. 16-20, February 11-14, 2025
 - M. Orlando, A. De Santis, M. De Caro, L. Perrone, S.A. Campuzano, G. Cianchini, A. Piscini, S. D'Arcangelo, M. Calcara, C. Fidani, A. Nardi, D. Sabbagh, M. Soldani, *Investigation of the preparatory phase of the 2022 ML 5.7 offshore Fano (Italy) earthquake through a multiparametric and multilayer methodology*, 43rd GNGTS session 1.3, Bologna, p. 84, February 11-14, 2025
 - C. Fidani, *Time-dependent PSHA using correlations between electric oscillations detected by CIEN and moderate earthquakes*, 43rd GNGTS session 2.1, Bologna, p. 34-38, February 11-14, 2025
 - C. Fidani, D. Marchetti, *The statistical correlations between the electric oscillations detected by CIEN and moderate seismic activity*, 43rd GNGTS session 2.1, Bologna, p. 39-43, February 11-14, 2025
 - C. Fidani, *Questions about correlations between particle precipitations and strong earthquakes*, 43rd GNGTS session 2.1, Bologna, p. 104-106, February 11-14, 2025
 - A. De Santis, G. Cianchini, H. Rahimi, H. Alimoradi, M. Calcara, S. D'Arcangelo, C. Fidani, D. Sabbagh, M. Orlando, L. Perrone, S.A. Campuzano, M. De Caro, A. Nardi, M. Soldani, *Searching for Pre-earthquake Signals from Space: Worldwide Statistical Analysis and a Tectonic Case Study*, AGU, Washington, D.C., NH31E-2159, December 9-13, 2024
 - C. Fidani, A. Piscini, *Earthquake probability Gain by a combination of two or more electromagnetic observables*, EMSEV, p. 34, October 6-9, 2024
 - G. Cianchini, M. Calcara, A. De Santis, A. Piscini, S. D'Arcangelo, C. Fidani, D. Sabbagh, M. Orlando, L. Perrone, S. A. Campuzano, M. De Caro, A. Nardi, M. Soldani, *Multidisciplinary and comparative analysis of the preparation phase of the 2023 Kahramanmaraş (Turkey) major earthquakes*, EMSEV, p. 34, October 6-9, 2024
 - M. Soldani, L. Perrone, A. De Santis, S. D'Arcangelo, G. Cianchini, A. Bonforte, R. Catania, S. R. Maugeri, A. Del Corpo, D. Di Mauro, S. Lepidi, M. Calcara, S. A. Campuzano, M. De Caro, C. Fidani, A. Ippolito, A. Nardi, M. Orlando, M. Regi, D. Sabbagh, *First results of the environmental monitoring of Etna Volcano: anomalies related to geophysical activity*, EMSEV, p. 38-39, 2024
 - A. Piscini, C. Fidani, *Satellite thermal monitoring of gas emissions at Campi Flegrei solfatara by ECOSTRESS time series analysis*, EMSEV, p. 55-56, October 6-9, 2024
 - C. Fidani, *From electrical oscillations to ball lightning associated with strong earthquakes*, EMSEV, p. 64, October 6-9, 2024
 - C. Fidani, A. Piscini, M. Calcara, G. Cianchini, M. Orlando, L. Perrone, D. Sabbagh, M. Soldani, *Mefite lake monitoring by high-frequency TIR images*, S15, 6th conference A. RITTMANN, Miscellanea INGV 83, p. 388, Catania, September 18-20, 2024
 - X. Zhang, A. De Santis, J. Liu, S. A. Campuzano, N. Yang, G. Cianchini, X. Ouyang, S. D'Arcangelo, M. Yang, M. De Caro, X. Li, C. Fidani, H. Liu, M. Orlando, L. Nie, L. Perrone, A. Piscini, L. Dong, D. Sabbagh, M. Soldani, P. Xiong, *Analysis of the preparation phase of the 2022 Ms6.8 Luding (China) earthquake from ground and satellite data: Application of a multiparametric and multilevel approach*, 110th CONGRESSO NAZIONALE SOC. ITALIANA DI FISICA, Bologna, p. 78, September 9-13, 2024
 - M. Campion, F. Oliva, C. Fidani, *Advancements in relative gravimeter design for high-precision celestial event monitoring and validation*, 110th CONGRESSO NAZIONALE SOCIETA' ITALIANA DI FISICA, Bologna, p. 351, September 9-13, 2024
 - C. Fidani, A. Piscini, M. Calcara, G. Cianchini, *Exploring the dynamics of earthquakes as complex fluid-related phenomena*, 110th CONGRESSO NAZIONALE SOCIETA' ITALIANA DI FISICA, Bologna, p. 76-77, September 9-13, 2024
 - A. Piscini, C. Fidani, *Satellite thermal monitoring of gas emission at Mefite D'Ansanto lake by ECOSTRESS time series analysis*, Proceedings of IEEE IGARSS Conference, Athens, Greece, July 7-12, 2024
 - A. De Santis, S. Campuzano, M. Calcara, G. Cianchini, S. D'Arcangelo, M. De Caro, C. Fidani, A. Nardi, M. Orland, L. Perrone, A. Piscini, D. Sabbagh, M. Soldani, *The great potentiality of low earth orbiting satellite missions such as Swarm for detecting pre-earthquake ionospheric anomalies*, Swarm 10-Year Anniversary & Science Conference, Copenhagen, p.63-64, April 8-12, 2024
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- C. Fidani, *A possible contribution made by Science of Global Information*, Cifa News, Supplemento a Ricerca Aerospaziale, Anno XXII, p. 14-16, http://www.cifafondation.org/CIFA_News/CIFA_News_39.pdf, December 2006

- C. Fidani, Six reports on the activity of Raffaele Bendandi, which contains 142 forecasts of earthquakes, Council of Faenza, 2004
- C. Fidani and M. de Crescenzi, *Analysis of Core Cu Fractures in Sandwiched Methylmethacrylate Plates*, Guzzini spa, 2002

Schools, Meetings and Conferences

- 111th CONGRESSO NAZIONALE SOCIETA' ITALIANA DI FISICA, September 22-26, 2025, Palermo, with a presentation
- Final Limadou Plus Progress Meeting, March 10, 2025, ASI Rome
- 43rd GNGTS, February 11-14, 2025, Bologna, with 3 presentations and three posters
- WACM4ES 2025, June 30 – July 3, Istanbul, Turkiye, Program Committee Member
- FURTHER, *Fourth Year Meeting*, Roma, November 6, 2024, with a presentation
- ISSI Team 23-583/57 “Investigations of the Lithosphere Atmosphere Ionosphere Coupling (LAIC) Mechanism before the Natural Hazard”, October 21-25, 2024, Beijin, China, with a presentation
- EMSEV2024, October 6-9, 2024, Chania, Greece, with a presentation and two posters
- National meeting CSES-Limadou collaboration, September 30 – October 2, 2024, ASI Rome
- 6th Conferenza A. RITTMANN, September 18-20, 2024, Catania, with a presentation
- 110th CONGRESSO NAZIONALE SOCIETA' ITALIANA DI FISICA, September 9-13, 2024, Bologna, with a presentation
- Workshop on Satellite Electromagnetic Disturbances and Earthquake Ionospheric Coupling: Techniques and Mechanism Studies, July 4, 2024, Institute of Earthquake Forecasting, China Earthquake Administration, Beijing
- Giornata dedicata ai terremoti in ambito del Progetto “Limadou Scienza +”, May 30, 2024, INGV Rome, with a presentation
- Workshop on Satellite Electromagnetic Disturbances and Earthquake Ionospheric Coupling: Techniques and Mechanism Studies, March 26-27, 2024, IEF-CEA, Beijing, with a presentation
- Limadou Plus Progress Meeting sixth semester, March 22, 2024, ASI Rome
- 42nd GNGTS, February 13-16, 2024, Ferrara, with 4 presentations and two posters
- FURTHER, *Third Year Meeting*, Roma, December 6, 2023, with a presentation
- Limadou General Meeting 2023, November 22-23, Trento
- Limadou Plus Progress Meeting fifth semester, October 9, 2023, ASI Rome
- REMTECH EXPO, event: Il Monitoraggio Idrogeochimico per la Protezione Ambientale e per lo Studio delle Variazioni Correlate all'Attività Sismica e Vulcanica, Ferrara, September 22, 2023, with a presentation
- The 6th Workshop of CSES Mission Agenda, Webex, September 17-21, 2023, Beijing, China, with a presentation
- 109th CONGRESSO NAZIONALE SOCIETA' ITALIANA DI FISICA, September 11-15, 2023, Salerno, with a presentation
- FURTHER, *Mid Term Meeting*, Grottaminarda, Avellino, May 10-11, 2023, with a presentation
- EGU General Assembly, *Natural Hazards*, Vienna – Austria, April 23-28, 2023, with two presentations and three posters
- Limadou Plus Progress Meeting fourth semester, April 12, 2023, ASI Rome
- Meeting *HydroQuakes: Pre-Seismic Hydrogeochemical Anomalies*, March 23, 2023, Rome, with a presentation
- Course in *Some Principles about Natural Disasters*, February 13, March 6, 7, and 13, 2023, Dip. Earth Sci. Sapienza, Rome
- 41st GNGTS, February 7-9, 2023, Bologna, with a presentation and two posters
- IAVCEI 2023, January 30-February 3, 2023, Rotorua, New Zealand, with a presentation
- Limadou Plus Progress Meeting, third semester, October 21, 2022, ASI Rome
- 108th CONGRESSO NAZIONALE SOCIETA' ITALIANA DI FISICA, September 12-16, 2022, Milano, with a presentation
- EMSEV2022, August 22-26, 2022, Taoyuan, Taiwan, with two invited presentations
- 40th GNGTS, June 27-29, 2022, Trieste, with a presentation and a poster
- FURTHER, *Midterm Meeting*, Google Meet, May 5, 2022
- Limadou Plus Progress Meeting, second semester, Google Meet, April 12, 2022
- 39th GNGTS, June 22-24, 2021, online, with a presentation and a poster
- 38th GNGTS, November 12-14, 2019, CNR Roma, with a presentation and a poster
- 105th CONGRESSO NAZIONALE SOCIETA' ITALIANA DI FISICA, September 23-27, 2019, L'Aquila, with two presentations
- 37th GNGTS, November 19-21, 2018, Bologna, with two presentations and a poster
- 104th CONGRESSO NAZIONALE SOCIETA' ITALIANA DI FISICA, September 17-21, 2018, Rende, with a presentation
- EMSEV2018, September 17-21, 2018, Potenza, with a presentation and two posters
- 1° CONVEGNO NAZIONALE “Precursori sismici ed elettromagnetici”, September 21, 2018, Portici, with a presentation
- 36th GNGTS, November 14-16, 2017, Trieste, with a presentation and three posters
- Meeting organizer: *Lo studio dei terremoti recenti a venti anni dall'evento di Colfiorito*, with a contribution entitled: *Dalle luci sismiche di Colfiorito alle osservazioni della rete elettromagnetica dell'Italia Centrale*, Colfiorito, August 19, 2017
- *Il terremoto dal punto di vista elettromagnetico*, in *Terremoto: sicurezza, prevenzione e precursori sismici*, Castello Orsini Colonna, Avezzano, May 6, 2017, invited
- Lezioni per il sostegno nelle scuole medie superiori, Aula Magna, Pascal, Perugia, February 13 and 27, 2017
- 35th GNGTS, November 22-24, 2016, Lecce, with two presentations
- Tavola Rotonda su *Terremoto, evoluzione, monitoraggio e prevenzione dei sismi*, Lieta Sosta H. Colfiorito PG, Nov. 1, 2016, invited
- Meeting, *LUCI ANOMALE, Testimonianze, strategie ed investigazioni scientifiche per svelarne il mistero*, Teatro "G.Verdi" di Saludecio (RN), October 16, 2016, with an invited presentation
- 35th General Assembly of the European Seismological Commission ESC2016, Trieste, Italy, September 4-11, 2016, with a presentation and a poster
- BSS16, *Forecasting Strong Earthquakes in Indonesia and Philippines from Space*, Trieste, June 27-July 1, 2016, invited poster
- EXPOEMERGENZE, *Segnali che precedono il terremoto*, Umbriafiere, Bastia Umbra, Perugia, June 3-5, 2016, with a presentation
- AGU 2015 Fall Meeting, San Francisco, December 14-18, 2015, with a poster presentation
- 34th GNGTS, November 17-19, 2015, Trieste, with a presentation and a poster
- Corso di formazione per lavoratori, sicurezza negli ambienti di lavoro, pericoli speciali, art. 37 (1,2,3) del Dlgs 9 aprile 2008 n.81, CNA Perugia Srl, Perugia, July 14, 2015
- Corso APC ORGMarche: *Acquisizione e analisi dati sismici per studi di geotecnica e microzonazione sismica*, Facoltà di Geologia dell'Università di Camerino, June 18-19, 2015
- Corso di formazione per lavoratori, sicurezza negli ambienti di lavoro art. 37 (1,2,3) del Dlgs 9 aprile 2008 n.81, CNA Perugia Srl, Perugia, February 12, 2015

- 33rd GNGTS, November 25-27, 2014, Bologna, with two presentations
- Workshop, *L'importanza delle anomalie biologiche osservate durante i forti terremoti*, in La terra modenese e la natura violenta: gli eventi estremi degli ultimi anni, Medolla, Modena, October 25, 2014, with an invited presentation
- Workshop, *Advances in Turin Shroud Investigations*, ATSI 2014, Bari, Italy, September 4-5, 2014, with a presentation
- Forum internazionale di Protezione Civile, *Protezione Civile in Europa e Protezione Ambientale, Difesa del Territorio*, Abbazia di Colle Medio, Perugia, September 2, 2014, with an invited presentation
- Workshop, *E' possibile prevedere gli eventi estremi e i terremoti?* Abbazia di Colle Medio PG, June 21-22, 2014, invited present.
- Meeting, *Sismicità, gas Radon, elettromagnetismo, radioattività, reti di monitoraggio ufficiali e amatoriali, stato dell'arte nella ricerca dei segnali possibili precursori sismici*, Pozzuolo del Friuli, April 25, 2014, with an invited presentation
- EXPOEMERGENZE, the CIEN Project was selected Esposizione Nazionale Biennale Sicurezza ed Emergenza, Umbriafiere, Bastia Umbra, Perugia, April 10-13, 2014, with an invited presentation
- Workshop, *Dal Progetto alla Risposta Sismica Locale, attraverso la Modellazione Specifica di Sito*, Osservatorio Bina Perugia, December 19, 2013, with an invited seminar
- Workshop, *La geofisica nella professione del geologo*, Ordine dei Geologi della Regione Umbria, Park Hotel, Ponte San Giovanni, Perugia, November 29, 2013, with an invited seminar
- 32nd GNGTS, November 19-21, 2013, Trieste, with a presentation and a poster
- Workshop W4, *Hydrogeochemical precursors of seismic activity*, GEOITALIA, Pisa, Sep. 12, 2013, with two invited presentations
- Meeting, *Le salse ed i terremoti attuali e passati*, Riserva Salse di Nirano, Modena, June 9, 2013, with an invited presentation
- EGU General Assembly, *Natural Hazards and Seismology*, Vienna – Austria, April 7-12, 2013, with a presentation and a poster
- 31st GNGTS, November 20-22, 2012, Potenza, with two presentations
- EGU General Assembly, *Natural Hazards*, Vienna – Austria, April 23-27, 2012, with a presentation
- 30th GNGTS, Trieste, November 14-17, 2011, with a presentation and a poster
- Il Programma “Idee” (ERC) del 7PQ di RST: *come partecipare e quali opportunità per la “ricerca di frontiera” a tematica libera*, training course, Perugia, October 24, 2011
- Ottobre all'Abbazia - Natura - *Bufo Bufo tra Favola e Scienza*, Abbazia dei Santi Ruffino e Vitale, Amandola (FM), October 8, 2011, with a presentation
- IONONTREMO, *Mostra e convegni sul rischio sismico liberi di conoscere e convivere con il terremoto*, Rimini, May 7-21, 2011, with two invited presentations
- CSES - Teleconference Meeting, *CSES Italy-China, Working meeting for the CSES payloads development*, March 21-22, 2011
- Meeting, *Prevenzione e Previsione Sismica*, Teramo, November 19, 2010, with an invited presentation
- First Meeting of *SAGA-4-EPR Satellite seafloor Ground data Analyses for Earthquake Pattern Recognition*, INGV Roma, October 29, 2010, with an invited presentation
- 29th GNGTS, Prato, October 28-30, 2010, with two presentations
- CSES Meeting, Italy-China, Beijing, September 6-11, 2010, with two presentations
- CSES Meeting, Italy-China, Roma, August 15-18, 2010, with a presentation
- CSES Meeting, Italy group, Padova, July 1-2, 2010
- EGU General Assembly 2010, *Natural Hazards*, Vienna – Austria, May 2-7, 2010, with a presentation and a poster
- Meeting, *Osservazioni elettromagnetiche e gravimetriche relative al sisma del 6 Aprile 2009 a L'Aquila*, L'Aquila, 26-28 Aprile 2010, with a presentation and a poster
- Technical Interchange Meeting (TIM) on the CSES satellite: *instrumentation and orbital requirements*, Perugia, February 5-7, 2010, with a presentation
- 28th GNGTS, November 16-19, 2009, Trieste, with two presentations
- Conference, *100 anni dal terremoto Calabro-messinese*, Reggio Calabria, Dec. 10-12, 2008, with a poster presentation
- EGU General Assembly 2008, *Natural Hazards*, Vienna – Austria, April 13-18, 2008, with three presentations and three posters
- Technical Interchange Meeting (TIM) on the CSES satellite: *instrumentation and working sessions*, Perugia, February 16-21, 2008, with a presentation
- 9th ILEGW, International Conference on *Exploration and Utilization of the Moon*, Sorrento, October 22-26, 2007, with two presentations and a poster
- IUGG XXIV, IASPEI on Progress in *EM studies on earthquakes and volcanoes – Seismo EM study using space technology*, Perugia, July 2-13, 2007
- 1st Workshop on *Photon Detection*, Hotel Giò, Perugia, June 13-14, 2007
- PRIN05 Progress meeting, *Geomagnetic Space Mission Project*, LNF INFN, Frascati, May 18, 2007
- Meeting, *Observation of the Universe from the Moon*, LNF INFN, Frascati, May 7, 2007
- Meeting, *Italian Vision for Moon Exploration, Studio Osservazione dell'Universo dalla Luna*, I Riunione Avanzamento, CNR Bologna, December 14, 2006
- PRIN05 Progress meeting, *Geomagnetic Space Mission Project*, Terni, November 30, 2006
- Italian Project Hessdalen Workshop, Bologna, June 17, 2006, with an invited presentation
- Meeting, COHERENCE, Rome, April 21, 2006, with a tribute to Raffaele Bendandi
- Meeting, *Monitoraggio elettromagnetico ambientale nelle bande ULF – ELF – VLF (0.001Hz - 100kHz)*, Progetto MEM, L'Aquila, January 22, 2005
- Meeting, *Settecento abruzzese. Eventi sismici, mutamenti economico-sociali e ricerca storiografica*, L'Aquila, October 29-31, 2004
- AGU 2003 Fall Meeting, San Francisco, December 5-12, 2003, with a poster presentation
- 21th National Conference GNGTS and 2nd Convegno Nazionale Sezione Italiana EAGE-SEG, Roma, November 19-21, 2002
- Conference *2001 Nonlinear Guided Waves and Their Applications Topical Meeting*, Clearwater, Florida, March 26-28, 2001, with a poster presentation
- 5th international conference in *Quantum Communication Measurements & Computing*, Capri, Italy, July 3 - 8, 2000
- Summer school *Nonlinear Optics*, Dipartimento di Fisica "A. Volta", University of Pavia, June 25 - July 8, 1999

Seminars

Come r-innovare una cittadinanza scientifica? Riflessioni sulla partecipazione alla scienza e sulla coscienza del rischio tra educazione e scelta politica, with E. Vitagliano, Scuola Internazionale Superiore per la Ricerca Multidisciplinare (SISRI), XV

Workshop, Nulla di nuovo sotto il Sole? Paradigmi e innovazione nelle scienze, Roma, May 24-25, 2025

Probability gain of two or more observable time series with earthquakes, ISSI Team 23-583/57, Beijing, China, October 22, 2024

Questioni circa le correlazioni tra precipitazioni di particelle e forti terremoti, Giornata dedicata ai terremoti in ambito del progetto "Limadou Scienza ++", INGV Roma, May 30, 2024

A study of the correlation between NOAA satellite-detected electron precipitations and South Pacific tectonic events, Workshop on Satellite Electromagnetic Disturbances and EQ Ionospheric Coupling: Techniques and Mechanism Studies, Beijing, March 3, 2024

Monitoraggio rete elettromagnetica italiana e fenomeni precursori, PCTO 4C e 5D Liceo Classico e Musicale "A. Mariotti", DAD for the Osservatorio Sismico "A. Bina", Perugia, May 8, 2023

The correlation between NOAA-15 electron bursts and strong East Pacific earthquakes, INGV Roma, sez. 2, September 26, 2022

Monitoraggio rete elettromagnetica italiana e fenomeni precursori, PCTO 2C e 2D Liceo Classico e Musicale "A. Mariotti", DAD for the Osservatorio Sismico "A. Bina", Perugia, September 6, 2022

Analisi scientifica dei fenomeni precursori, PCTO 2C e 2D Liceo Classico e Musicale "A. Mariotti", DAD for the Osservatorio Sismico "A. Bina", Perugia, January 31, 2022

I precursori sismici, PCTO 3C e 3G Liceo Classico e Musicale "A. Mariotti", at Oss. Sismico "A. Bina", Perugia, Sep. 8, 2021

I terremoti nella Ionosfera, IIS Campus Leonardo da Vinci, Umbertide, January 8, 2020

Terremoti e onde radio in ELF e VLF, ARI Perugia, Ponte San Giovanni, February 1, 2018

Sicurezza in montagna in relazione ai fenomeni meteorologici – corso avanzato, Sez. CAI "G. Bellucci", Perugia, April 21, 2017

Seminari sulle precauzioni da seguire in occasione dei forti terremoti, for students, Aula Magna IIS G. Bruno, Perugia, February 13,15,16, 20-24, 27, 2017

Seminario per docenti sulle precauzioni da seguire in occasione dei forti terremoti, Aula Magna IIS G. Bruno, Perugia, Feb. 15, 2017

Le luci sismiche, una possibile interpretazione dalle osservazioni recenti della Rete Elettromagnetica dell'Italia Centrale, Teatro "G.Verdi" di Saludecio (RN), October 16, 2016

Sicurezza in montagna in relazione ai fenomeni meteorologici, Sede CAI sez. "G. Bellucci", Perugia, May 20, 2016

Il terremoto del '97 a Colfiorito la "percezione" animale e la rivelazione strumentale, Sede del Parco di Colfiorito Area Ex-Casermette, Comune di Foligno (PG), October 17, 2015

Statistical correlation between electric perturbations recorded by a station of the Central Italy Electromagnetic Network and moderate seismic activity in Umbria Region, Università di Chieti G. D'Annunzio, July 13, 2015

I fenomeni elettrici di origine sismica e meteorologica, indicazioni sulla pericolosità dei fenomeni naturali, Università di Chieti G. D'Annunzio, July 5, 2014

Monitoraggio elettromagnetico in relazione ai fenomeni geofisici, Sede ARI, sezione Città di Castello, February 11, 2014

Electromagnetic monitoring in relation to geophysical phenomena, School of Science and Technology Physics Division, Camerino University, Camerino, January 23, 2014

The Central Italy Electromagnetic Network, a multidisciplinary monitoring to study the effects of geophysical fluids into the atmosphere, Workshop W4, GEOITALIA, Pisa, September 12, 2013

Statistical aspects of NOAA particles and global strong earthquakes data analysis, Workshop W4, GEOITALIA, Pisa, Sep. 12, 2013

Fenomeni elettrici e di migrazione dei fluidi prima, durante e dopo i forti terremoti, Aula Magna, Agraria, Perugia, June 5, 2013

I Vulcanelli di Fango, punti di contatto con l'universo sotterraneo. Dai terremoti alla nascita della vita, Centro di Educazione Ambientale, Monteleone di Fermo, April 14, 2012

L'osservazione della natura nei periodi sismici: dal terremoto dell'Italia Centrale del 1873 al terremoto abruzzese del 2009, Abbazia dei Santi Ruffino e Vitale, Amandola (FM), October 8, 2011

Precipitazione di particelle misurate dai satelliti NOAA in occasione di forti terremoti, Dalla sismologia al terremoto raccontato dai Vangeli. Nuove prospettive per la sindonologia. Educatorio della Provvidenza, Torino, July 16, 2011

Le previsioni di Raffaele Bendandi, IONONTREMO, Teatro degli Atti di Rimini, May 20, 2011

Le luci sismiche. Una costante nella storia dei grandi terremoti, IONONTREMO, Teatro Corte di Coriano (RI), May 19, 2011

Correlations between NOAA satellite particle bursts and strong earthquakes, Phys. Department of Perugia University, May 18, 2011

Segnali elettromagnetici e terremoti, Geology Department, Gabriele D'Annunzio University, Chieti, January 14, 2011

Fenomeni Elettromagnetici e Terremoti, Prevenzione e Previsione Sismica, Teramo, November 19, 2010

Correlations between NOAA satellite particle bursts and strong earthquakes, INFN sez. of Perugia University, November 11, 2010

ELF electromagnetic signals in Central Italy, CEA Department, Beijing, September 10, 2010

Earthquake lights of the April 6, 2009, L'Aquila earthquake, Perugia, February 15, 2010

Correlations between strong earthquakes and NOAA satellite energetic particle bursts, Phys. Dep. Perugia University, Jan. 22, 2010

Dal terremoto di Norcia-L'Aquila del 1703 a quello del 6 aprile 2009, Perugia, May 28, 2009

Week of the Scientific and Technological Culture, IX "faentina" edition: Le previsioni di Raffaele Bendandi, Faenza, April 3, 2009

NOAA particle data and correlations to seismic activity, CNR Perugia, Oct 16, 2008

Week of Scientific and Technological Culture, VII "faentina" edition: Raffaele Bendandi e il vento solare, Faenza, March 30, 2007

Week of Scientific and Technological Culture, VI "faentina" edition: Le stelle soli dell'infinito, Faenza, May 9, 2006

Relation status: electromagnetic emissions linked to tectonic and seismic activity, INGV L'Aquila, Forte Spagnolo, Dec. 22, 2004

On the principles and paradoxes of quantum mechanics, Physics Department of Camerino University, May 22, 2002

Wholeness as a new aspect of quantum theory, Physics Department of Camerino University, May 8, 2002

On the causal interpretation of quantum mechanics, Physics Department of Camerino University, May 2001