

CURRICULUM VITAE
ZIBERNA LUCA

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RESEARCH INTERESTS

- Geothermobarometry of igneous and metamorphic rocks
- Formation and evolution of the continental crust-mantle transition zone
- Textural investigation of rocks through optical and X-ray techniques.
- Cutting-edge techniques to measure the oxidation state of iron in crust and mantle minerals
- Scientific drilling through continental lithosphere

EDUCATION AND JOBS

2022 – present	Associate Professor in Petrology and Petrography at the Department of Mathematics and Geosciences, University of Trieste.
2019 – 2021	Researcher in Petrology and Petrography at the Department of Mathematics and Geosciences, University of Trieste.
2017 – 2018	Research fellow (Alexander von Humboldt Foundation), Bayerisches Geoinstitut, University of Bayreuth, Germany. Research project: “Experimental constraints on carbon speciation and diamond nucleation in the Earth’s upper mantle”.
2014 – 2016	Post-doctoral research associate in petrology , School of Earth Sciences, University of Bristol, Bristol, United Kingdom. Research project: “Cumulate thermobarometry”.
2013 – 2014	Wissenschaftlicher Mitarbeiter (Post-doctoral position) , Bayerisches Geoinstitut, University of Bayreuth, Germany. Research project: “Deep earth elastic properties and a universal pressure scale”.
2010 – 2013	Ph.D. in Earth Science , at the Department of Geosciences, University of Padova, Italy. Ph.D. supervisor: Prof. Paolo Nimis. Thesis title: "What garnet, clinopyroxene, and diamond potential can tell us about the evolution of sub-cratonic mantle sections: a case study of the Zagadochnaya kimberlite (Yakutia)". Grant “Fondazione Cassa di Risparmio di Padova e Rovigo”.
2012	Visiting student at the Institute of Mineralogy, University of Muenster, from April to July 2012. Research collaboration. Thermodynamic modelling of peridotitic systems (responsible: Prof. Stephan Klemme).
2007 – 2009	Master Degree in Geological Sciences (110/110 with honors), at the Department of Geoscience, University of Trieste. Supervisor: Dr. Angelo De Min. Thesis title: "Ladinian magmatism in the South Alpine: new geochemical data and implications on the geodynamic framework of the Adria plate".
2004 – 2007	Bachelor Degree in Geological Sciences (110/110 with honors), at the Department of Geoscience, University of Trieste. Supervisor: Prof. Riccardo Petrini. Thesis title: "Volcanological and geochemical features of the April 11 th , 2007 eruption at the Sud-Est Crater, Mt. Etna (Sicily)".

2003 – 2004	Technical office worker at Asi-Robicon S.p.A., Trieste (Italy). Tasks: electric motors design.
2002	Factory worker at GE Power Controls Italia S.p.A., Gorizia (Italy). Tasks: Inverters (power and speed controllers for electric motors) setting-up.
2001	Military service in the Italian Navy
1999 – 2000	First Level Certificate in Industrial Automation at ENAIP (ACLI National Agency of Vocational Training), Trieste (Italy).
1994 – 1999	Secondary school diploma at the “Istituto Tecnico Industriale Statale Alessandro Volta” (Technical Institute with an emphasis on electrical and automation engineering), Trieste (Italy).

FUNDRAISING AND FELLOWSHIPS

2024	Funding by the “Fondazione Cassa di Risparmio di Trieste” for the project “Where do the critical raw materials form? Strengthening basic research and teaching to tackle the energy transition” (43.000 €).
2020	Funding by the International Continental scientific Drilling Program (ICDP) for part of the drilling operations of project DIVE (Drilling the Ivrea-Verbano Zone), Phase 1; PI's: Müntener O., Pistone M., Zanetti A., Ziberna L., Hetényi G. and Greenwood A. (1.000.000 US\$).
2020	Research grant from the University of Trieste, Italy: <i>Revised geothermobarometric models to investigate the structure and thermal history of the Earth's crust.</i> (3.200 €).
2019	Rita Levi Montalcini fellowship award from the Italian Ministry for Education, University and Research (https://bandomontalcini.cineca.it/vincitori.php?parte=8).
2016	Funding by the International Continental scientific Drilling Program (ICDP) for the workshop of project DIVE (Drilling the Ivrea-Verbano Zone); PI's: Müntener, O., Pistone, M. and Ziberna, L. (50.000 US\$).
2014	Humboldt research fellowship award from the Alexander von Humboldt Foundation, Bonn, Germany. (http://www.humboldt-foundation.de).

TEACHING EXPERIENCE

2020 – present	Lecturer for the course “Geology of crystalline rocks”, Master program in Geoscience, University of Trieste.
2019 – present	Lecturer for the course “Mineralogy and Petrography with laboratory”, Bachelor program in Science and Technology for the Environment, University of Trieste.
2024 – present	Lecturer for the module “Petrography” of the course “Geoscience with laboratory”. Qualifying training courses for school teachers. University of Trieste
2021 – 2025	Lecturer for the course “Petrography”, Bachelor program in Geology, University of Trieste.
2019 – 2024	Lecturer for the courses "Experimental petrology and thermodynamic modelling", Master program in Geoscience, University of Trieste.
2017 - 2018	Laboratory assistant for the short courses “High-Pressure Experimental Techniques and Applications to the Earth’s Interior”, Bayerisches Geoinstitut, University of Bayreuth.

- 2014 - 2015** **Lecturer** for the undergraduate course “Frontiers in Earth Science”, Geology, University of Bristol, United Kingdom.
- 2010 – 2011** **Teaching assistant** for the undergraduate course “Petrography”, Natural Sciences, University of Padova, Italy.
- 2011** **Teaching assistant** for the undergraduate course of “Volcanology”, Geological Sciences, University of Padova, Italy.

SUPERVISION EXPERIENCE

- 2020 - present** **Supervisor** of 2 PhD candidates, 6 BSci and 3 MSci students, for thesis in Petrology, University of Trieste.
- 2022 – 2024** **Supervisor** for a Marie Skłodowska-Curie Actions post-doctoral fellowship in petrology, University of Trieste.
- 2022 – 2024** **Supervisor** for a post-doctoral position in petrology, University of Trieste.
- 2021 – 2022** **Supervisor** for a research internship of the Italian Ministry of foreign affairs for the project "Phosphate minerals as recorders of the timing and thermodynamical environment of the Ivrea-Verbano Zone (Italy)", University of Trieste.
- 2019 - 2022** **Co-supervisor** of 1 PhD candidate, 3 BSci and 1 MSci students, for thesis in Petrology, University of Trieste.
- 2015 - 2016** **Supervisor** of one MSci student, for thesis in petrology, University of Bristol.

INSTITUTIONAL ACTIVITIES

- 2021 - present** **Member** of the faculty board of the PhD school “Earth Science, Fluid dynamics and Mathematics. Interactions and methods.”, University of Trieste.
- 2025 - present** **Contact person** for the admission test (TOLC) for the Bachelor program “Earth Science for Sustainable Development”, University of Trieste.
- 2025 - present** **Member** of the teaching committee for the Bachelor program in Geology and Master program in Geoscience, University of Trieste.
- 2023 – present** **Contact person** for the Erasmus agreement between the University of Trieste and the Freie Universität Berlin, for the Bachelor and Master programs in Geoscience.
- 2024 – 2025** **Member** of the working group for the design of the Bachelor program “Earth Science for Sustainable Development”, University of Trieste.
- 2020 – 2022** **Member** of the working groups for the revision of the Bachelor program in Geology and Master program in Geoscience, University of Trieste.

OUTREACH AND SCHOOLS

- 2026** **Invited seminar** entitled “Volcanoes and smartphones” in the event “Restart Party” at the technical institute Alessandro Volta, Trieste.
- 2025** **Invited seminar** on georesources and sustainability for teachers of the technical institute Alessandro Volta, Trieste.
- 2024** **Public engagement activity** “Minerali dalla Terra e dallo spazio (Minerals from Earth and Space)” in the framework of the program Trieste Next, September 2024, Trieste.
- 2024** **Lecture** entitled “The career of a geologist”, for students of the first grade secondary school "F.lli Fonda Savio - Manzoni", Trieste.

- 2024** **Guided visit** at the Museum of Mineralogy and Petrography of the University of Trieste, for students of the first grade secondary school "F.lli Fonda Savio - Manzoni", Trieste.
- 2023 - 2024** **Engagement of high school students** in the event “Georesources and environmental sustainability”, Summer educational program of the University of Trieste, including seminars and laboratory activity. August 2023 and July 2024.
- 2023** **Public engagement activity** “La Terra e la Luna al microscopio (The Earth and the Moon under the microscope)” in the framework of the program Researcher’s Night – Sharper, September 2023, Trieste.
- 2023** **Seminar** for high school students “Georesources and sustainable development, opportunities and problems”, January 2023, University of Trieste.
- 2022** **Interview** on the Italian TV Focus about the geology of the Ivrea-Verbano Zone and project DIVE, 21.03.2022.
- 2020** **Public engagement activity** with the local population of Valsesia, Piemonte, in the framework of a geophysical campaign for the project DIVE (Drilling the Ivrea-Verbano Zone), Varallo, Piemonte.
- 2020** **Public engagement activity** “Exploring the deep crust in the Sesia Val Grande Geopark. A scientific drilling project in the Ivrea-Verbano Zone (DIVE)”, as part of the national science dissemination program “Earth Planet Week”, Pieve-Vergonte.

ORGANIZATION OF MEETINGS AND OTHER EVENTS

- 2026** **Organizer** of the Round table for the planning of project DIVE2 (Drilling the Ivrea-Verbano zone), University of Trieste. Local host and scientific co-organization.
- 2025** **Convener** of the session “From magmatism to extreme metamorphism: Formation, evolution and geochronology of the continental lower crust“, Goldschmidt conference 2025, Prague.
- 2025** **Convener** of the session “Earth continental crust from a combined geophysical, geochemical, petrological and microbiological perspective“, EGU General Assembly 2025, Vienna.
- 2024** **Co-organizer** of the international workshop “Drilling the Ivrea-Verbano zone science workshop 2024: first results of the drilling operations”, Romagnano Sesia (VC), 10-12 July 2024.
- 2022** **Organizer of the international school** “Understanding Oxygen fugacity in Geoscience”, University of Trieste, 5-9 September 2022.
- 2017** **Co-organizer** of the international workshop “Drilling the continental crust to the Moho transition zone (Ivrea-Verbano zone, Italy)” (funded in June 2016), sponsored by the International Continental Scientific Drilling Program. Baveno, 1-5 May 2017.
- 2016** **Convener** of the session “Cumulates from Top to Bottom: New Perspectives and Implications for Volcanic Plumbing Systems and Crust-Forming Processes”, AGU Fall meeting 2016, San Francisco.
- 2015** **Convener** of the session “Mantle mineralogy” at the SIMP-AIV-SoGeI-SGI joined congress 2015, Florence.
- 2011** **Co-organizer** of the International School “Diamonds, the mantle petrologist’s best friends”, February 2011, Bressanone.

SPECIFIC SCIENTIFIC ACTIVITIES AND SKILLS

Synchrotron beamtimes	Main proponent of 5 projects and participant of 11 projects (2013 – 2025) approved for beamtime at four synchrotron facilities (European Synchrotron Radiation Facility, Grenoble, France; Diamond Light Source, Didcot, UK; Argonne National Laboratory, USA; Elettra Light Source, Trieste, Italy)
Scientific drilling	Site manager for the drilling sites 5071_1_A and 5071_1_B of project DIVE (Drilling the Ivrea-Verbano zone), International Continental Scientific Drilling Program. Val d'Ossola, Italy.
Geological fieldwork	Ivrea-Verbano Zone (Italy), mapping and sampling of magmatic and metamorphic rocks from the Sesia Magmatic System and the Val d'Ossola metamorphic sequence. Dolomites (Italy), teaching and outreach activities on the outcrops of the Triassic magmatic events. Central Mongolia , sampling and mapping of a Cenozoic volcanic district in the Mandal Gobi region. Islands of St. Lucia, St. Eustatius, Saba and Terr-de-Haut (Lesser Antilles), sampling of volcanic rocks and cumulate/plutonic xenoliths South Indian kimberlites (Andhra Pradesh region), sampling of kimberlites and related rocks
Other scientific skills	Thermodynamic modelling and thermobarometric methods for igneous and mantle rocks. Geological mapping and sampling of magmatic and metamorphic rocks. Petrographic study of igneous rocks through, optical microscope, scanning electron microscope and basic skills in X-ray micro-computed tomography. Electron microprobe analysis and scanning electron microscopy of natural igneous rocks and synthetic minerals and glasses. Mössbauer spectroscopy (basic skills in data acquisition, good skills in data treatment) High-pressure and/or high-temperature experiments through multi-anvil and piston-cylinder apparatus and 1-atmosphere gas-mixing furnaces. Notions in single-crystal X-ray diffraction
Software	Python programming Perple_X and thermocalc (thermodynamic modelling) QGIS for geological mapping Strabospot App for geological mapping Microsoft Office (Word, Excel, Power Point) Adobe Illustrator
Editorial activities	Reviewer for the peer reviewed journals Journal of Petrology, Contributions to Mineralogy and Petrology, Lithos, American Mineralogist, European Journal of Mineralogy, Minerals, Geochemistry Geophysics Geosystems, The Leading Edge.

SCIENTIFIC MEMBERSHIPS

2021 - present	Italian Geological Society (SGI), 2021 - present
2016 – present	Mineralogical Society of America
2010 – present	Italian Society of Mineralogy and Petrology (SIMP),
2011 – 2024	European Association of Geochemistry

SCIENTIFIC PROJECT MANAGEMENT

2021 – 2025	Planning and coordination of the operational and scientific activities of the first phase of scientific drilling project DIVE (Drilling the Ivrea-Verbano zone). This included the technical and logistic planning of the drilling sites, coordination with the drilling company, interactions with the local community, management of the scientific personnel (90 students and researchers in total), coordination of the sampling and preliminary analyses of the rock cores.
2024 – present	Management of a geological mapping project of the Balmuccia-Isola mafic and ultramafic sequence, Ivrea-Verbano Zone, western Southern Alps, including mapping campaigns, data processing and geological interpretation. Team of eleven scientists from the University of Trieste, University of Pavia, University of Mainz.
2022 – 2024	Management and supervision of a Marie Skłodowska-Curie Actions post-doctoral fellowship, entitled “Source and mobility of mercury in a continental magmatic systems”, University of Trieste.
2022 – 2024	Management of the renewal of the sample preparation laboratory of the Department of Mathematics, Informatics and Geosciences, University of Trieste, including the development of thin section preparation techniques, installation of new equipment and consultancy for the training of the lab technician.
2020 – 2022	Coordination for the sorting and re-development of the magmatic and metamorphic rock collection of the Department of Mathematics, Informatics and Geosciences, University of Trieste, including the creation of a digital database.

OTHER PROJECTS AND COLLABORATIONS (ONGOING)

- Venier, M., Beltrame, M., Corradetti, A., Del Rio M., Hawemann, F., Müntener, O., Narduzzi F., Pistone, M., Toy, V., **Ziberna, L.** *Carbonated ultramafic rocks in the Balmuccia layered series, Ivrea-Verbano Zone, Italy.*
- Li, J., Greenwood, A., Venier, M., Secretan, A., Degen, S., **Ziberna, L.**, Caspari, E. *A Bayesian Inversion Framework Integrating Downhole Logging and XRF Data for the Mineral Fraction Estimation of Lower Crustal Rocks in the Ivrea-Verbano Zone.*
- Terranova, K., Venier, M., Narduzzi, F., Černok, A., Del Rio, M., **Ziberna, L.** *Origin and evolution of a pegmatoid clinopyroxenite from the Balmuccia-Isola mafic-ultramafic sequence, Ivrea-Verbano Zone, western Southern Alps.*
- Del Rio, M., Černok, A., **Ziberna, L.** *Pressure-temperature evolution and oxidation state of garnet-bearing gabbroic rocks from the Mafic Complex of the Ivrea-Verbano Zone, western Southern Alps.*
- Narduzzi, N., Covelli, S., Pistone, M., Pitcairn, I., Tribuzio, R., **Ziberna, L.** *The paradox of the deep Hg cycle on Earth.*
- **Ziberna, L.**, Corsaro, R.A., Cerantola, V., Milani, S., Melai, C., Abeykoon, S., Masotta, M. and Mollo, S. *Small-scale variations in oxidation state of basaltic magmas from Mt. Etna, Sicily.*
- **Ziberna, L.**, and Frost, DJ. *Experimental investigation of ferric and ferrous iron partitioning in Cr-rich spinel-garnet peridotites.*
- **Ziberna, L.**, Cerantola, V., Milani S., Melai, C., Faccincani, L., Stagno V., Bulanova, G., Smith, C., Frost, D. *The oxidation state of Fe in mantle xenoliths and inclusions in diamonds from the Murowa kimberlite, Zimbabwe.*
- Cerantola, V., **Ziberna, L.**, Melekhova, E. and Blundy, J.D. *Distribution of ferric and ferrous*

PEER-REVIEWED PUBLICATIONS

N. publications: 28, H-Index: 15, Citations: 737 (Scopus)

- Del Rio, M., Corradetti, A., Černok, A., Narduzzi, F., Venier, M., **Ziberna, L.** Virtual outcrop modelling and petrography of a heterogeneous gabbroic outcrop in the Ivrea-Verbano Zone, Italy. *Geological Magazine*, <https://doi.org/10.1017/S001675682510023>.
- Narduzzi, F., Covelli, S., Floreani, F., Pavoni, E., Petranich, E., Jantzi, S.C., Pistone, M., Černok, A., Venier, M., Crosera, M., **Ziberna, L.** (2025). Strengths and Weaknesses of the Analytical Techniques Used for Measuring Low Mercury Mass Fractions ($< 10 \text{ ng g}^{-1}$) in Crystalline Rocks: Direct Mercury Analyser Versus Cold Vapour-Atomic Fluorescence Spectroscopy. *Geostandards and Geoanalytical Research*, doi: 10.1111/ggr.12606.
- Li, J., Caspari, E., Greenwood, A., Pierdominici, S., Lemke, K., Venier, M., Kück, J., Baron, L., Pistone, M., Petri, B., **Ziberna, L.**, Hetényi, G. (2024). Integrated Rock Mass Characterization of the Lower Continental Crust Along the ICDP-DIVE 5071_1_B Borehole in the Ivrea-Verbano Zone. *Geochemistry, Geophysics, Geosystems*, doi: 10.1029/2024GC011707.
- Hetényi, G., Baron, L., Scarponi, M., Subedi, S., Michailos, K., Dal, F., Gerle, A., Petri, B., Zwahlen, J., Langone, A., Greenwood, A., **Ziberna, L.**, Pistone, M., Zanetti, A., Müntener, O. (2024). Report on an open dataset to constrain the Balmuccia peridotite body (Ivrea-Verbano Zone, Italy) through a participative gravity-modelling challenge. *Swiss Journal of Geosciences*, doi: 10.1186/s00015-023-00450-3.
- Venier, M., **Ziberna, L.**, Mancini, L., Kao, A.P., Bernardini, F., Roncoroni, G., Milani, S., Youbi, N., Yondon, M., De Min, A., Lenaz, D. (2024). Multi-scale and multi-modal imaging study of mantle xenoliths and petrological implications. *American Mineralogist*, 109, 882-895.
- Ryberg, T., Haberland, C., Wawerzinek, B., Stiller, M., Bauer, K., Zanetti, A., **Ziberna, L.**, Hetényi, G., Müntener, O., Weber, M.M., Krawczyk, C.M. (2023). 3-D imaging of the Balmuccia peridotite body (Ivrea-Verbano zone, NW-Italy) using controlled source seismic data. *Geophysical Journal International*, 234, 1985-1998.
- Velicogna, M., De Min, A., Prašek, M.K., **Ziberna, L.**, Brombin, V., Jourdan, F., Renne, P.R., Balen, D., Grégoire, M., Marzoli, A. (2023). The Norian magmatic rocks of Jabuka, Brusnik and Vis Islands (Croatia) and their bearing on the evolution of Triassic magmatism in the Northern Mediterranean. *International Geology Review*, 65, 2558-2579.
- Bonechi, B., Stagno, V., Kono, Y., Rostislav, H., **Ziberna, L.**, Andreozzi G.B., Perinelli, C., Gaeta, M. (2022). Experimental measurements of the viscosity and melt structure of alkali basalts at high pressure and temperature. *Scientific Reports*, 12, 2599.
- Faccincani, L., Cerantola, V., Nestola, F., Nimis, P., **Ziberna, L.**, Pasqualetto, L., Chumakov, A.I., Harris, J.W., Coltorti, M. (2022). Relatively oxidized conditions for diamond formation at Udachnaya (Siberia). *European Journal of Mineralogy*, 34, 549-561.
- Venier, M., **Ziberna, L.**, Princivalle, F., Petrelli, M., Vanni, L., Logvinova, A., Sobolev, N.V., Turco, G., Lenaz, D. (2022). Trace Elements in Chromian Spinel from Four Siberian Kimberlites. *Minerals*, doi: 10.3390/min12111439.
- Milani, S., Fumagalli, P., **Ziberna, L.**, Maurice, J., Lotti, L., Comboni, D., Pagliaro, F., Hanfland, M., Bais, G., Joseph, B. and Merlini M. (2022). Thermo-elastic parameters of Mg-sursassite and its relevance as a water carrier in subducting slabs. *American Mineralogist*. doi: 10.2138/am-2022-8034.
- Milani, S., Comboni, D., Lotti, P., Fumagalli, P., **Ziberna, L.**, Maurice, J., Hanfland, M., Merlini, M. (2021). Crystal Structure Evolution of CaSiO_3 Polymorphs at Earth's Mantle Pressures. *Minerals*, 11, 652.

- **Ziberna L.** (2021). Geobarometry of mafic and ultramafic xenoliths: examples from Hualalai and Mauna Kea volcanoes, Hawaii. In: Masotta, M., Meyer C., Mollo, S. (eds): *Crustal Magmatic System Evolution: Anatomy, Architecture, and Physico-Chemical Processes, Geophysical Monograph 264*, 3–18. American Geophysical Union.
- Pistone M., **Ziberna, L.**, Hetényi, G., Scarponi, M., Zanetti, A. and Müntener, O. (2020). Joint Geophysical-Petrological Modeling on the Ivrea Geophysical Body Beneath Valsesia, Italy: Constraints on the Continental Lower Crust. *Geochemistry, Geophysics, Geosystems*, 21, e2020GC009397.
- Blundy, J.D., Melekhova, E., **Ziberna, L.**, Humphreys, M., Cerantola, V., Brooker, R., McCammon, C., Pichavant, M, and Ulmer, P. (2020). Effect of redox on Fe-Mg-Mn exchange between olivine and melt and an oxybarometer for basalts. *Contributions to Mineralogy and Petrology*. 175:103.
- De Min A., Velicogna M., **Ziberna L.**, Chiaradia M., Alberti A. & Marzoli A. (2020). Triassic Magmatism in Southern Alps as an Early Phase of Pangea Break-up. *Geological Magazine*, <https://doi.org/10.1017/S0016756820000084>.
- Kurnosov, A., Marquardt, H., Frost, D.J., Boffa Ballaran, T. & **Ziberna, L.** (2018). Kurnosov et al. reply. *Nature*, 564, E27.
- **Ziberna, L.**, Green, E.C.R. & Blundy, J.D. (2017) Multiple-reaction geobarometry for olivine-bearing igneous rocks. *American Mineralogist*, 102, 2349-2366.
- Pistone, M., Müntener, O., **Ziberna, L.**, Hetényi, G., Zanetti, A. (2017). Report on the ICDP workshop DIVE (Drilling the Ivrea-Verbano zone). *Scientific Drilling*, 23, 47-56.
- Kurnosov, A., Marquardt, H., Frost, D.J., Boffa Ballaran, T., **Ziberna, L.** (2017). Evidence for a Fe³⁺-rich pyrolitic lower mantle from (Al,Fe)-bearing bridgmanite elasticity data. *Nature*, 543, 543-546.
- Pamato, M.G., Kurnosov, A., Boffa Ballaran, T., Frost, D.J., **Ziberna, L.**, Giannini, M., Tkachev, S.N., Speziale, S, Tkachev, S.N., Zhuravlev, K.K., & Prakapenka, V.B., 2016. Single-crystal elasticity of majoritic garnets: stagnant slabs and thermal anomalies at the base of the transition zone. *Earth and Planetary Science Letters*, 451, 114-124.
- **Ziberna, L.**, Nimis, P., Kuzmin, D. & Malkovets, V.G.A., 2016 Error sources in single-clinopyroxene thermobarometry and a mantle geotherm for the Novinka kimberlite, Yakutia *American Mineralogist*. 101, 2222-2223.
- Myhill, R., Ojwang, D.O., **Ziberna, L.**, Frost, D., Boffa Ballaran. T. & Miyajima, N., 2016 On the P-T-fO₂ stability of Fe₄O₅, Fe₅O₆ and Fe₄O₅-rich solid solutions. *Contributions to Mineralogy and Petrology*, 171, 51.
- **Ziberna, L.** & Klemme, S., 2016. Application of thermodynamic modelling to natural mantle xenoliths: Examples of density variations and pressure-temperature evolution of the lithospheric mantle. *Contribution to Mineralogy and Petrology*, 171, 16.
- **Ziberna, L.**, Nimis, P., Zanetti, A., Marzoli, A. & Sobolev, N.V. 2013. Metasomatic processes in the central Siberian cratonic mantle: evidence from garnet xenocrysts from the Zagadochnaya kimberlite. *Journal of Petrology*, 54, 2379-2409.
- **Ziberna, L.**, Klemme, S. & Nimis, P. 2013. Garnet and spinel in fertile and depleted mantle: insights from thermodynamic modeling. *Contributions to Mineralogy and Petrology*, 166, 411-421.
- Nestola, F., Merli, M., Nimis, P., Parisatto, M., Kopylova, M., De Stefano, A., Longo, M., **Ziberna, L.** & Manghnani, M. 2012. In situ analysis of garnet inclusion in diamond using single-crystal X-ray diffraction and X-ray micro-tomography. *European Journal of Mineralogy*, 24, 599-606.
- Nestola, F., Nimis, P., **Ziberna, L.**, Longo, M., Marzoli, A., Harris, J. W., Manghnani, M. H. & Fedortchouk, Y. 2011. First crystal-structure determination of olivine in diamond: composition

and implications for provenance in the Earth's mantle. *Earth and Planetary Science Letters*, 305(1-2), 249-255.

NON-PEER-REVIEWED PUBLICATIONS

- Greenwood, A., Venier, M., Hetényi, G., **Ziberna, L.**, Heeschen, K. et al. Drilling the Ivrea-Verbano zone: DIVE 1 – ICDP Operational Report. *ICDP operational Report*, <https://doi.org/10.48440/ICDP.5071.001>.
- **Ziberna, L.**, Cerantola, V., Bulanova, G., Smith, C., Faccincani, L., Melai, C., McCammon C.A., and Frost, D.J. 2017. The oxidation state of iron in highly refractory peridotites. *Bayerisches Geoinstitut Annual Report 2017*, Bayreuth, pp. 55-56.
- Dominijanni, S., Stagno, V., **Ziberna, L.**, Boffa Ballaran, T., and Frost, D.J. 2017. Experimental investigation of the origin of ferropericlasite inclusions in super-deep diamonds and the oxidation state of the lower mantle. *Bayerisches Geoinstitut Annual Report 2017*, Bayreuth, pp. 61-62.
- Myhill, R., **Ziberna, L.**, Frost, D.J., Boffa Ballaran, T., Bureau, H., and Raepsaet, C. 2015. Water solubility in lower mantle phases. *Bayerisches Geoinstitut Annual Report 2014*, Bayreuth, pp. 121-122.
- Myhill, R., **Ziberna, L.**, and Frost, D.J. 2014. The effect of ferric iron on melting relations in the upper mantle. *Bayerisches Geoinstitut Annual Report 2013*, Bayreuth, pp. 48-49.
- Chen, J., Pamato, M.G., Lin, Y., Katsura, T., Kawazoe, T., and **Ziberna, L.** 2014. Water solubility in (Mg,Fe)(Si,Al)O₃ perovskite. *Bayerisches Geoinstitut Annual Report 2013*, Bayreuth, pp. 71-72.
- Milani, S., Nestola, F., Pamato, M.G., **Ziberna, L.**, and Boffa Ballaran, T. 2014. Synthesis of large gem-quality crystals of grossular (Ca₃Al₂Si₃O₁₂), uvarovite (Ca₃Cr₂Si₃O₁₂) and their solid solutions. *Bayerisches Geoinstitut Annual Report 2013*, Bayreuth, pp. 79-80.
- Ojwang', D.O., Myhill, R., **Ziberna, L.**, Miyajima, N., Frost, D.J., and Boffa Ballaran, T. 2014. The stability field and microstructures in high-pressure iron oxide, Fe₄O₅. *Bayerisches Geoinstitut Annual Report 2013*, Bayreuth, pp. 82-83.
- Pamato, M.G., Kurnosov, A., Boffa Ballaran, T., Frost, D.J., **Ziberna, L.**, Giannini, M., Trots, D.M., Tkachev, S.N., Zhuravlev, K.K., and Prakapenka, V.B. 2014. Single crystal elasticity of majoritic garnet at high pressure and temperature. *Bayerisches Geoinstitut Annual Report 2013*, Bayreuth, pp. 95-96.
- **Ziberna, L.**, Boffa Ballaran, T., and Frost, D.J. 2014. Synthesis of large gem-quality single crystals of pure, Al-bearing, and (Al, Fe)-bearing MgSiO₃ perovskite. *Bayerisches Geoinstitut Annual Report 2013*, Bayreuth, pp. 147-148.
- Longo, M., Nimis, P., Nestola, F., **Ziberna, L.**, Franz, L., and McCammon, C.A. 2011. Iron oxidation state of garnet from upper mantle xenoliths in the Gibeon kimberlite province (Namibia). *Bayerisches Geoinstitut Annual Report 2010*, Bayreuth, pp. 68-69.
- Petrini, R., **Ziberna, L.**, and Pinzino, C. 2010. The distribution of paramagnetic centers in glass and lavas from eruptive activity at Mt. Etna: implications for magmatic processes during basaltic eruptions. *Acta Vulcanologica*, **20-21**, 159-166.

INVITED PRESENTATIONS

- **Ziberna, L.**, Del Rio, M., Černok, A., Venier, M. (2025). The oxidation state of the lower continental crust: first results from the DIVE drilling project, Ivrea-Verbano Zone, Italy. Invited seminar at the Faculty of Geosciences and Environment, University of Lausanne, Switzerland.
- **Ziberna, L.**, Beltrame, M., De Min, A., McCammon, C., Masotta, M., Del Rio, M., Narduzzi, F., Černok, A., Terranova, K., Venier, M. (2024). The continental Moho from a geobarometric perspective. *SIGI-SIMP joined congress, Bari*.

- **Ziberna, L.**, Hetényi, G., Müntener, O., Greenwood, A., Zanetti, A., Pistone, D., Giovannelli, D. (2024). First results of the drilling operations in project DIVE – Drilling the Ivrea-Verbano zone. *Invited seminar at the Department of Applied Geosciences and Geophysics, University of Leoben, Austria.*
- **Ziberna, L.**, Cerantola V., Smith, C., Bulanova, G., Frost D. 2018. The oxidation state of ultra-refractory mantle peridotites from Murowa, Zimbabwe. *The problems of magmatic and metamorphic petrology, geodynamics and genesis of diamonds, Novosibirsk, Russia.*
- **Ziberna, L.** and Blundy, J.D. 2017. The depth of igneous cumulates in the Lesser Antilles island arc. *Geosciences: a tool in a changing world, Pisa, Italy*
- **Ziberna, L.**, Green, E.C.R., Schumacher, J., and Blundy, J.D. 2015. Cumulate thermobarometry *Goldschmidt Conference, Prague, Czech Republic.*

OTHER CONFERENCE PRESENTATIONS

First author

- **Ziberna, L.**, Terranova, K. G., Narduzzi, F., Venier, M., Del Rio, M., and Černok, A.: Garnet-bearing clinopyroxenites in the lower crustal units of Ivrea Verbano Zone, Italian Alps, *EGU General Assembly 2025, Vienna.*
- **Ziberna, L.**, Hetényi, G., Müntener, O., Greenwood, A., Zanetti, A., Pistone, D., Giovannelli, D. and the international DIVE Team, 2023. Project DIVE – Probing the continental lower crust and its transition to the mantle through scientific drilling. *SGI-SIMP joined congress, Potenza.*
- **Ziberna, L.**, Cerantola, V. Abeykoon, S., Besos, D., Corsaro, R., Melai, C. & Milani S. 2019. The potential of a Synchrotron Mössbauer Source to unravel the redox evolution of magmas in the Earth's interior. *EBS-Workshop on Nuclear Resonance Scattering. Grenoble.*
- **Ziberna, L.**, Cerantola, V., Milani, S., Smith, C., Bulanova, G., Melai, C., Faccincani, L., Ismailova, L., Stagno, V., McCammon, C. and Frost, D. 2018. Oxidation state of Fe in highly refractory mantle peridotites. *SGI-SIMP joined congress: Geoscience for the environment, natural hazards and cultural heritage, Catania.*
- **Ziberna, L.**, Cerantola, V., Milani, S., Melai, C., Faccincani, L., Stagno, V., Ismailova, L., Bulanova, G., Smith, C., Chumakov, A., Frost, D., and McCammon, C. 2018. Synchrotron Mössbauer spectroscopy applied to mantle xenoliths and inclusions in diamonds from the Murowa kimberlite, Zimbabwe. *User meeting of the European Synchrotron Radiation Facility, Grenoble.*
- **Ziberna, L.**, Green, E.C.R., and Blundy, J.D. 2017. Geobarometers for Igneous Rocks with ± 1.0 kbar Uncertainty? *Goldschmidt Conference, Paris.*
- **Ziberna, L.**, Green, E.C.R., and Blundy, J.D. 2016. Multiple Reaction Geobarometry for Gabbroic Rocks. *AGU Fall Meeting, San Francisco.*
- **Ziberna, L.**, Green, E.C.R., and Blundy, J.D. 2016. The pressure signal in olivine-bearing gabbroic rocks. *European Mineralogical Conference, Rimini.*
- **Ziberna, L.**, Green, E.C.R., Schumacher, J., and Blundy, J.D. 2015. Geobarometry of igneous cumulates and the depth of magma storage zones. *SIMP-AIV-SoGel-SGI joined congress: Il Pianeta Dinamico, Florence.*
- **Ziberna, L.**, and Klemme, S. 2015. The effect of spinel-to-garnet peridotite transition on the density variations in the upper mantle. *SIMP-AIV-SoGel-SGI joined congress: Il Pianeta Dinamico, Florence.*
- **Ziberna, L.**, Nimis, P., Zanetti, A., Marzoli, A., and Sobolev, N.V. 2014. Natural evidence of kimberlite-garnet reactions in the upper mantle. *The Future of the Italian Geosciences, The Italian Geosciences of the Future, Milan.*

- **Ziberna, L.**, Klemme, S., and Nimis, P. 2013. Garnet and spinel in the upper mantle: Results from thermodynamic modeling in fertile and depleted compositions. *Goldschmidt 2013 meeting, Florence*.
- **Ziberna, L.**, Nimis, P., Zanetti, A., Marzoli, A., and Sobolev, N.V. 2012. Shallow refertilization processes in the Siberian sub-cratonic mantle: evidences from garnet and associated minerals from the Zagadochnaya kimberlite (Yakutia, Russia). *First European Mineralogical Conference, Frankfurt*.
- **Ziberna, L.**, Nimis, P., Zanetti, A., Marzoli, A., and Sobolev, N.V. 2012. Garnets and associated minerals from the Zagadochnaya kimberlite (Yakutia, Russia): mantle metasomatism, diamond potential and volcanological implications. *Workshop of the Deutsche Mineralogische Gesellschaft (DMG), Münster*.
- Nimis P., and **Ziberna L.** 2012. Propagation of analytical errors in single-clinopyroxene geobarometry and implications on estimated mantle palaeogeotherms. *First European Mineralogical Conference, Frankfurt*.
- **Ziberna L.**, Nimis P., Zanetti A., Sobolev N.V., and Marzoli A. 2011. Geochemistry of mantle microxenoliths from Zagadochnaya Kimberlite (Yakutia, Russia). *Goldschmidt 2011 meeting, Praga*.
- **Ziberna L.**, Nimis P., Zanetti A., Sobolev N.V., and Marzoli A. 2010. Geochemistry of garnets and clinopyroxenes in microxenoliths from the Zagadochnaya Kimberlite (Yakutia, Russia). *89° meeting of the Italian Society of Mineralogy and Petrology, Italy*.
- **Ziberna, L.**, Peressini, G., Milani, S., and De Min, A., 2009. Ladinian magmatism of the South Alpine: geochemical and isotopic data and their implications for the geodynamic setting of Adria. *7th Italian Forum of Earth Science, Rimini*.
- **Ziberna, L.**, Petrini, R., Corsaro, R.A., Slejko, F.F., and Pinzino, C., 2008. Study of the distribution of paramagnetic centres in some recent eruptive products of Sud-Est Crater at Mt. Etna by ESR spectroscopy: implications on bubble nucleation and magma cooling kinetics. *27° National Congress of the National Group of Solid Earth Geophysics, Trieste*.

Co-author

- Müntener, O., Heteny, G., Greenwood, A., **Ziberna, L.**, Zanetti, A., Pistone, M., Giovannelli, D., Venier, M. and the DIVE Drilling Project Science team: From the lower crust towards the crust–mantle transition zone: Initial results from the ICDP DIVE project. *EGU General Assembly 2025, Vienna*.
- Tonietti, L., Corso, D., Cascone, M., Esposito, M., Brusca, J., Longo, A., Barosa, B., Eckert, E. M., Venier, M., Cordone, A., Kallmeyer, J., Greenwood, A., Hetényi, G., Müntener, O., Pistone, M., Zanetti, A., **Ziberna, L.**, and Giovannelli, D.: Microbial characterization of deep-waters from a borehole within the Ivrea-Verbano Zone. *EGU General Assembly 2025, Vienna*.
- Venier, M., Beltrame, M., Corradetti, A., Del Rio, M., Hawemann, F., Müntener, O., Narduzzi, F., Pistone, M., Toy, V., and **Ziberna, L.** Carbonated ultramafic rocks in the Balmuccia layered series, Ivrea-Verbano Zone, Italy, *EGU General Assembly 2025, Vienna*.
- Del Rio, M., **Ziberna, L.**, Corradetti, A., Černok, A. Petrological investigation of garnet- and olivine-bearing mafic crustal rocks in the Sesia Valley (Ivrea-Verbano Zone, Italy). *EGU General Assembly 2025, Vienna*.
- Venier M., **Ziberna L.**, Mancini L., Kao A.P., Bernardini F., Roncoroni G., Youbi N., Majigsuren Y., Lenaz D. & De Min A., 2021. A comparative study between X-ray computed microtomography and thin sections observation of mantle xenoliths. *90° congress of the Italian Geological Society, Trieste*.
- Venier M., **Ziberna L.**, Mancini L., Kao A.P., Bernardini F., Youbi N., Majigsuren Y., Lenaz D. & De Min A., 2021. Some examples of X-ray micro-computed tomography applied to mantle

petrology. *Goldschmidt conference, Lyon*.

- Greenwood, A., Baron, L., Hetényi, G., Pistone, M., Liu, Y., Holliger, K., Müntener, O., **Ziberna, L.**, Zanetti, A., Ziramov, S., Urosevic, M. 2020. Active seismic surveys to site the Drilling the Ivrea Verbano zone (DIVE) drill-holes, Val Sesia and Val d'Ossola, Italy. *International Symposium on Deep Seismic Profiling of the Continents and their Margins: SEISMIX 2020, Perth, Australia*.
- Greenwood, A., Baron, L., Liu, Y., Hetényi, G., Holliger, K., Pistone, M., Zanetti, A., **Ziberna, L.**, Müntener, O. 2020. Reflection seismic surveys to site the Drilling the Ivrea Verbano zone (DIVE) proposed drill-holes, Val Sesia and Val d'Ossola, Italy. *EGU General Assembly 2020, Vienna, Austria*.
- Masotta, M., Folco, L., Ziberna, L., Myhill, R. 2021. Partial melting of an enstatite chondrite at 1 GPa: Implications for early planetary differentiation. *EGU General Assembly, Vienna, Austria*.
- Pistone, M., **Ziberna, L.**, Hetényi, G., Scarponi, M., Zanetti, A. and Müntener, O. 2019. Deciphering the petrophysics and petrology of the Ivrea Geophysical Body (Alps) by combining laboratory data and thermodynamic modelling. *AGU fall meeting, San Francisco*.
- Greenwood, A., Baron, L., Hetényi, G., Pistone, M., Holliger, K., **Ziberna, L.**, Zanetti, A., and Müntener, O. 2019. Active seismic surveys at project DIVE's three drilling target sites, Ivrea Zone, Northern Italian Alps. *Swiss Geoscience Meeting, Fribourg*.
- Sakrowski, R., Spiekermann, G., Albers, C., Sternemann, C., Gretarsson, H., Sundermann, M., Ablett, J.M., Rueff, J.-P., Ziberna, Z., McCammon, C., Tolan, M. and Wilke, M. 2019. Iron spin transition in bridgmanite revisited. *57th European High Pressure Research Group Meeting, Prague*.
- Blundy, J., Melekhova, L., Ulmer, P., Pichavant, M., Humphreys, M., **Ziberna, L.**, Cerantola, V., Brooker, R. & McCammon, C. 2019. Fe-Mg-Mn Exchange between Olivine and Melt and an Oxybarometer for Basaltic Systems. *Goldschmidt Conference, Barcelona*.
- Pistone, M., **Ziberna, L.**, Hetényi, G., Zanetti, A. and Müntener, O. 2019. Predicting the chemical composition of the Ivrea geophysical body: A petrophysical and petrological analysis. *EGU General Assembly, Vienna*.
- Faccincani, F., Cerantola, V., Nestola, F., Nimis, P., **Ziberna, L.**, Harris, J.W. 2019. Unravelling the lithospheric mantle redox state by inclusions still trapped within diamonds. *EGU General Assembly, Vienna*.
- Bonechi, B., Stagno, V., Kono, Y., **Ziberna, L.**, Perinelli, C. and Gaeta, M. 2018. Viscosity of alkaline basalts at high pressure: constraints on the pre-eruptive system of Campi Flegrei (Italy). *SIG-SIMP joined congress: Geoscience for the environment, natural hazards and cultural heritage, Catania*.
- Blundy, J.D., Melekhova, E., Ulmer, P., Pichavant, M., Humphreys, M., **Ziberna, L.**, Cerantola, V., Brooker, R. and McCammon C. 2018. Iron redox equilibria in hydrous basaltic melts and Fe²⁺-Mg exchange between olivine and melt. *16th International Conference on Experimental Mineralogy, Petrology and Geochemistry. Clermont-Ferrand*.
- Bonechi, B., Stagno, S., Kono, Y., **Ziberna, L.**, Perinelli, C. and Gaeta, M. 2018. Rheology of primitive alkaline basalts: constraints on the pre-eruptive system of Campi Flegrei (Naples, Italy). *16th International Conference on Experimental Mineralogy, Petrology and Geochemistry. Clermont-Ferrand*.
- Marquardt, H., Kurnosov, A., Frost, D., Boffa Ballaran, T. and **Ziberna, L.** 2017. High-pressure single-crystal elasticity measurements of Al-Fe-bridgmanite support a Fe³⁺-rich pyroclitic lower mantle. *AGU Fall Meeting, San Francisco*.
- Blundy, J.D., Miur, D., **Ziberna, L.** and Brooker, R. 2017. Dacite Petrogenesis at Cerro Uturuncu Volcano, Bolivia. *IAVCEI scientific assembly, Portland*.
- Velicogna, M., De Min, A., **Ziberna, L.**, Marzoli A., Chiaradia, M. and Alberti, A. 2017

Triassic Magmatism in Eastern Alps. *Geosciences: a tool in a changing world, Pisa*.

- Marquardt, H., Kurnosov, A., Frost, D., Boffa Ballaran, T., **Ziberna, L.**, Miyagi, L., Liermann, H-S., Speziale, S., and Immoor, J. 2016. Composition and Structure of Earth's Lower Mantle from Elasticity and Rheology Measurements. *EGU General Assembly, Vienna*.
- Frost, D., Kurnosov, A., Boffa Ballaran, T., Marquardt, H., **Ziberna, L.**, and Chantel, J. 2015. The Influence of Iron Partitioning on Seismic Wave Velocities in the Lower Mantle. *Goldschmidt Conference, Prague*.
- Pamato, M.G., Kurnosov, A., Boffa Ballaran, T., Frost, D.J., **Ziberna, L.**, Giannini, M., Tkachev, S.N., Zhuravlev, K.K., Prakapenka, V.B., and Speziale, S. 2014. Single Crystal Elasticity of Majoritic Garnets: Stagnant Slabs and Thermal Anomalies at the Base of the Transition Zone (INVITED). *AGU Fall Meeting, San Francisco*.
- Klemme, S., Rohrbach, A. and **Ziberna, L.** 2014. The garnet-spinel transition in lherzolite and harzburgite. *6th Orogenic Lherzolite Conference, Marrakech*.
- Frost, D.J., Myhill, R. and **Ziberna, L.** 2013. The distribution of ferric iron within the Earth's interior and evolution in the mantle's redox state (INVITED). *AGU Fall Meeting, San Francisco*.
- Pamato, M.G., Kurnosov, A., Boffa Ballaran, T., Frost, D.J., **Ziberna, L.**, Giannini, M., Trots, D.M., Tkachev, S.N., Zhuravlev, K.K. and Prakapenka, V.B. 2013. Single crystal elasticity of majoritic garnet at high pressure and temperature. *AGU Fall Meeting, San Francisco*.
- Longo, M., Nimis, P., **Ziberna, L.**, Marzoli, A., Zanetti, A. and Franz, L. 2011. Geochemistry of xenoliths from the Gibeon Kimberlite Province, Namibia. *Goldschmidt 2011 meeting, Praga*.
- Nestola, F., Nimis, P., **Ziberna, L.**, Longo, M., Marzoli, A., Harris, J. W., Manghnani, M.H. and Fedortchouk, Y. 2010. First crystal-structure determination of an olivine inclusion still trapped in a diamond: a window to the inaccessible Earth. *89^o meeting of the Italian Society of Mineralogy and Petrology, Ferrara*.
- Longo, M., Nimis, P., **Ziberna, L.**, Nestola, F., Franz, L. 2010. Iron oxidation state of garnet from upper mantle xenoliths in the Gibeon kimberlite province (Namibia) and implications for geothermobarometry. *89^o meeting of the Italian Society of Mineralogy and Petrology, Ferrara*.
- Nestola, F., Nimis, P., **Ziberna, L.**, Longo, M., Marzoli, A., Harris, J.W., Manghnani, M.H. and Fedortchouk, Y. 2010. First crystal-structure determination of an olivine inclusion still trapped in a diamond: composition and implications for diamond source pressure. *20th General Meeting of the International Mineralogical Association, Budapest*.

SCHOOLS AND WORKSHOPS ATTENDED

- Wiersberg, T. “ICDP Training Course on Planning, Management and Execution of Continental Scientific Drilling Projects”, sponsored by the International Continental scientific Drilling Program. *May 15th – 17th, 2018, GeoZentrum KTB, Windischeschenbach, Germany*.
- Nestola, F., Shirey, S., Pearson, G., Wang, W., Alvaro, M. “Diamonds, geology, gemology and exploration”. *January 29th – February 2nd, 2018, Brixen, Italy*.
- Moyen, J.F., Janoušek, V. “Numerical modelling of igneous processes – state of the art and prospects for the future”. *August 15th – 16th, 2015, Prague*.
- Nestola, F., Shirey, S., Pearson, G. “The nature of diamonds and their use in Earth's study”. *January 27th – 31st, 2015, Bressanone, Bolzano*.
- Antoshechkina, P., Asimow, P., Ghiorso, M. “Thermodynamic modeling with alphaMELTS and other MELTS software”. *December 11th – 14th, 2014, Caltech, Pasadena*.
- Kearns, S., Buse, B., et al. “NERC advanced training course: Fundamentals of EPMA”. *November 4th – 6th, 2014, Bristol*.

- Bayerisches Geoinstitut and German Mineralogical Society. “High-pressure experimental techniques and applications to the earth’s Interior”. *February 13th–17th, 2012, Bayreuth.*
- Nestola, F., Nimis, P., Longo, M., Ziberna., L., Secco., L., Cesare., B., Mikhail, S., Jones., A. “Diamonds, the mantle petrologist’s best friends”. *February 21th –26th , 2011, Bressanone, Bolzano.*
- Bodnar, R.J., Danyushevsky, L.V., Webster, J.D. "Short course on fluids in the Earth". *October 25th –29th, 2010, Napoli.*
- Stoppa, F., Woolley, A., Wall, F., Bailey, K., Rosatelli, G. "First carbonatite and alkali rock school". *September 29th – October 1st 2010, San Venanzo, Terni.*
- Coltorti, M., Ponticelli, S., Francalanci, L., Piccardo, G.B., Rosi, M. “Shourt course on magmatic petrology and volcanology: from mantle to magma chambers”. *September 7th–8th, 2009, Rimini.*
- Aoudia, A., Niemela, J., Scandolo, S. “From core to crust: towards an integrated vision of earth's interior”. *July 20th–24th, 2009, Trieste.*
- Antonioli, F., Monaco, C., Ferranti, L. “Neotectonics, morphology and environmental risks in coastal areas”. *October 4th–11th, 2008, Catania.*