

PERSONAL INFORMATION

Maria Chiara INVERNIZZI



✉ chiara.invernizzi@unicam.it

🌐 <http://docenti.unicam.it/pdett.aspx?ids=N&tv=d&Uteld=400&ru=PA>

💬 SKYPE:

Sex Female | Date of birth | Nationality Italian

POSITION

Associate Professor of Structural Geology and Geothermics
c/o School of Science and Technology, Geology Division – Università di Camerino

WORK EXPERIENCE

November 2014 to now	Associate Professor at University of Camerino
October 2011	Visiting scientist at Salta University (Argentina)
November 2014	Visiting scientist at Salta University (Argentina)
Luglio 2009	Visiting Scientist at Saragozza University, Structural Geology and Paleomag labs
October 2008	Visiting Scientist at Saragozza University, Structural Geology and Paleomag labs
February 2008	Visiting Scientist at Département des Sciences de la Terre -Université Paris XI - Paris Sud - Orsay (France)
June - July 2005	Invited professor at Département des Sciences de la Terre -Université Paris XI - Paris Sud - Orsay (France)
May 1998 -Oct. 2014	Researcher at University of Camerino
Dicember –Jan. 1994	Visiting scientist at Virginia Polytechnic, Fluid Inclusion Lab (USA)
August 1994	Visiting scientist at Virginia Polytechnic, Fluid Inclusion Lab (USA)
Sept.1992 - April 1998	Teacher of Geography at the High School Institute ITCG “Alfredo Morea” in Fabriano (AN)

Main activities and responsibilities

- Director of the Library and Museum System of University of Camerino since April 2014
- Director of Science Museum and Botanic Garden of University of Camerino from March 2007 to March 2014
- Rector delegate for University Institutional Communication
- Responsible of Fluid Inclusion Lab of School of Science and Technology

EDUCATION AND TRAINING

- 1990-1992 Post-Doc fellowship for Microstructural research studies in Central Apennines with research collaboration at ETH in Zurich
- 1985 -1989 PhD courses and research in Earth Sciences at Perugia and Camerino Universities (PhD diploma: Rome, march 1990) and Master courses on “Structural Geology and Rock Mechanics” attended at Imperial College - London
- 1980 -1984 Degree in Geological Sciences at Camerino University (110/110 cum laude)
- 1980 Maturità Classica , Liceo-Ginnasio ‘Perticari’ – Senigallia (AN)

Replace with EQF (or other) level if relevant

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B 1	B 2	B2	B 2	C 1
Spanish	A 1	A1	A1	A1	A1

Communication skills

Good communication skills gained through experience as Referent of the Rector of University for Communication from November 2004 to October 2011. Acquisition of skills thank to didactic experience in several Bachelor and Master courses for geologist and naturalists since 1997 (Fundamentals of Geology-module 2, Geology laboratory, Structural Geology, Geothermics) and as a teacher of high schools (1993-98)

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

Organisational / managerial skills

Leadership (coordinator of team of more than 12 people in several occasions): experiences acquired as **Director of University Library and Museum System**, and as research and territorial project coordination (national and international such as Prin 2004, CUIA 2011, FESR-Marche Region, Unicam-FAR 2014-15 MATREND project, UE-Interrg). Organization of cultural events and temporary exhibition (2007: Viaggio nel Silicio; 2012: A Spasso con i Continenti; 2009: Energie, between others).

Tutor and Co-tutor and supervisor of several (more than 10) PhD projects.

Other skills

- Painting (free hand, oil, tempera, enamel colour)
- Music (playing piano, listening)
- Sports (playing running, Nordic sky, swimming)

Driving licence

- B

ADDITIONAL INFORMATION
 Research Interest

- 1985-86 : **meso-structural analyses** on brittle-ductile shear zone interpreted for the first time as tear faults in the central Apennines
- 1986-90: studies on “**Tectono-Sedimentary Evolution of the Outer Marche area between Esino and Tronto Rivers**” (PhD thesis). Main scientific results (published) on stress-strain field reconstruction, joints classification and genesis, timing of compressive deformation.
- 1991-94: participation to structural research and geological surveys related to **CROP 03** project (published). Post –doc fellowship for **micro-structural analysis** along Umbria-Marche thrust planes: reconstruction of ductile and brittle-ductile strain mechanisms at meso- and microscopic scale (published).
- 1995-2010: Analyses on fault rock texture evolution and **micro-thermometry: fluid inclusions analyses in minerals** (responsible for the Fluid Inclusion Lab at Geology department of Unicam). These studies have been applied to define exhumation and deformation history in mountain chain in collaboration with researchers from Roma Tre, Bologna and Naple Federico II Universities, and Virginia Tech (USA) (results published). Financial support to research from CNR Agenzia 2000 and PRIN 2004 projects. During this period, Invernizzi also collaborated to studies on **active faulting in central Apennines** with Unicam research group after the Colfiorito 1997 earthquake sequence (results are published). Studies on the **evolution of extensional recent and active fault planes and fault rocks in carbonate** are conducted in collaboration with Paris XI (Orsay) University both in central Italy (Gubbio) and Gulf of Corinth (Greece, financial support from Total, PhD project). Results are published. Further studies using fluid inclusions micro-thermometry and other paleo-thermal indicators have been conducted to reconstruct thermal and tectonic evolution of western Pyrenees in collaboration with Roma Tre and Saragoza (Spain) University (PhD project).
- 2011-today: Since 2011, Invernizzi applies her micro-thermometric and structural expertise to reconstruction and **exploration of geothermal reservoirs** at medium-low enthalpy, Italy (Marche region, PhD projects; Far MATREND project; COASTENERERGY, EU Interreg Italia-Croazia) and in Argentina, in collaboration with Rome Tre, La Sapienza and Salta Universities (Financial support by CUIA , Consorzio delle Università Italiane per l’Argentina in 2011-2014-2018, MAE-Ministero Affari Esteri, Progetto di Grande Rilevanza in 2014-15). Results are published since 2013. Recently she also collaborates with Genova university (Geophysics Lab). Soon after the 2016-17 seismic sequence in Central Italy, she has been **involved in the post-sisma geological survey** (research group EMERGEO) and in “Nuovi sentieri di sviluppo per le aree colpite dal sisma”, an interdisciplinary research projects promoted and supported by Consiglio Regionale delle Marche. She was funded in 2018 by the Marche Region for an “**Innovative PhD project**” on **Disaster Risk Reduction**.
- From 2007 to 2017, Invernizzi has been the Director of the University Library and Museum System. She presented and coordinated several projects aiming to **Science dissemination and public engagement in Science**; she was also involved in promoting and realizing territorial networks of local science museums, cultural associations, local authorities and companies. Together with Eleonora Paris (Unicam School of Science and Technology), she founded the UnicamEarth group, realizing **research and innovation in the Didactic of Earth Sciences** also with PhD programs.

Scientific Publications

2020. Teloni S., Invernizzi C., Mazzoli S., Pierantoni P. and Spina V. - **The seismogenic fault system of the M_w 6.4, November 2019 Albania earthquake: new insights into the structural architecture and active tectonic setting of the outer Albanides.** Journal of the Geological Society, <https://doi.org/10.1144/jgs2020-193>
2020. Cognigni S., Pasquini G., Teloni R., Volatili T., Zambrano M., Bragato D., Corvini M., Trianni S., Invernizzi C. & Tondi E. The use of public vintage data for 3D geological and petrophysical modelling of reservoirs: two case studies in the Adriatic Sea (Italy). *Rend. Online Soc. Geol. It.*, Vol. 52 (2020), pp. 47-54, 4 figs. (<https://doi.org/10.3301/ROL.2020.17>)
2020. Santini S., Basilici M., Invernizzi C., Mazzoli S., Megna A., Pierantoni P.P. , Spina V. and Teloni S. - Thermal Structure of the Northern Outer Albanides and Adjacent Adriatic Crustal Sector, and Implications for Geothermal Energy Systems. *Energies* **2020**, *13*, 6028; doi:10.3390/en13226028
2020. Rubén Filipovich, Walter Báez, Gianluca Gropelli , Florencia Ahumada, Luca Aldega, Raúl Becchio, Gabriele Berardi, Sabina Bigi, Chiara Caricchi, Agostina Chiodi, Sveva Corrado, Gianfilippo De Astis, Arnaldo A. De Benedetti, Chiara Invernizzi, Gianluca Norini, Michele Soligo, Sara Taviani, José G. Viramonte and Guido Giordano, Geological Map of the Tocomar Basin (Puna Plateau, NW Argentina). Implication for the Geothermal System Investigation. *Energies* **2020**, *13*, 5492; doi:10.3390/en13205492
2020. Craddock J.P., · Malone D. H., · Wartman J., · Kelly M. J., Junlai L., · Bussolotto M., · Invernizzi C., · Knott J., · Porter R. Calcite twinning strains from syn-faulting calcite gouge: small-offset strike-slip, normal and thrust faults. *International Journal of Earth Sciences* (2020) 109:1–42 <https://doi.org/10.1007/s00531-019-01783-x>
2019. Chicco J.M., Verdoya M., Giuli G., Invernizzi C., Termophysical properties and mineralogical composition of the Umbria – Marche carbonate succession (Central Italy). SPE542-02: 250 Million Years of Earth History in Central Italy: Celebrating 25 Years of the Geological Observatory of Coldigioco. DOI <https://doi.org/10.1130/SPE542>

Scientific Publications

2019. Pierantoni P.P., Costa M., Chicco J.M., Invernizzi C. – Plio-Quaternary transpressive tectonics: a key factor for the structural evolution of the outer Apennine-Adriatic system (Italy). *Jour. Geol.Soc.Lond.* (2019) jgs 2018-199. <http://dx.doi.org/10.1144/jgs2018-199>
2019. Chicco J.M., Pierantoni P.P., Costa M., Invernizzi C. – Plio-Quaternary Tectonics and possible implications for geothermal fluids in the Marche Region (Italy). *Tectonophysics*, 755, 21-34. <https://doi.org/10.1016/j.tecto.2019.02.005>
2018. Giacomini J., Invernizzi M.C., Maponi P., Verdoya M. - Testing a model of flow and heat transfer for u-shaped geothermal exchangers. *Advances in Modelling and Analysis A* Vol. 55, No. 3, September, 2018, pp. 151-157 Journal homepage: http://iieta.org/Journals/AMA/AMA_A
- 2018- Verdoya M., Pacetti C., Chiozzi P., Invernizzi C. - Thermophysical parameters from laboratory measurements and in-situ tests in borehole heat exchangers. *Applied Thermal Engineering*, 144 (2018) 711-720.
- 2018 . R. Civico, S. Pucci, F. Villani, L. Pizzimenti, P. M. De Martini, R. Nappi & the Open EMERGEIO Working Group (2018) Surface ruptures following the 30 October 2016 Mw 6.5 Norcia earthquake, central Italy, *Journal of Maps*, 14:2, 151-160, DOI: 10.1080/17445647.2018.1441756
- 2018 - Fabio Villani¹, Riccardo Civico¹, Stefano Pucci¹, Luca Pizzimenti¹, Rosa Nappi¹, Paolo Marco De Martini¹ and the Open EMERGEIO Working Group: Data Descriptor: A database of the coseismic effects following the 30 October 2016 Norcia earthquake in Central Italy *SCIENTIFIC DATA* | 5:180049 | DOI: 10.1038/sdata.2018.49
- 2018 – Capitolo di libro C. Bisci, B. Gentili, A. Acciarri, G. Cantalamessa, G. Di Pancrazio, M. Fazzini, A. Fusari, M. Gentilucci, and C. Invernizzi. *CLEAN AND HEALTHY – NATURAL HAZARDS AND RESOURCES* in: Grigori R.C, D’Onofrio R. Sargolini M. Eds. 2018 - *Quality of Life in Urban Landscapes. In Search of a Decision Support System.* The Urban Book Series – Springer
- 2018 - Giacomini J., Invernizzi C., Maponi P. Verdoya M.- Testing a Model of Flow and Heat Transfer for U-shaped Geothermal Exchangers. *Proceedings 3rd AIGE/IIETA International Conference 2018. Advances in Modelling and Analysis A*, 55/3, 151-157.
- 2017 A.Rustichelli, A. Iannace, E. Tondi, C. Di Celma, A. Cilona, M. Giorgioni, M. Parente, M. Girundo, C. Invernizzi (2017). Fault-controlled dolomite bodies as palaeotectonic indicators and geofluid reservoirs: new insights from Gargano Promontory outcrops. *SEDIMENTOLOGY*, vol. 64, p. 1871-1900, ISSN: 0037-0746, doi: 10.1111/sed.12378
- 2017 – Articolo su rivista A. M. CASAS SAINZ, T. ROMAN BERDIEL, B. OLIVA URCIA · C. GARCIA LASANTA, J. J. VILLALÁIN, · L. ALDEGA, · S. CORRADO · C. CARICCHI, · C. INVERNIZZI, · M. C. OSÁCAR. Multidisciplinary approach to constrain kinematics of fault zones at shallow depths: a case study from the Cameros–Demanda thrust (North Spain). *Int J Earth Sci (Geol Rundsch)* 106:1023–1055 DOI 10.1007/s00531-016-1349-5 (2017)
- 2016 – Articolo su rivista FUSARI A., CARROLL M.R., FERRARO S., GIOVANNETTI R., GIUDETTI G., INVERNIZZI C., MUSSI M., PENNISI M. Circulation path of thermal waters within the Laga foredeep basin inferred from chemical and isotopic (d18O, dD, 3H, 87Sr/86Sr) data. *Applied Geochemistry*, 78, 23-34. (2016)
- 2016 - Chicco J. M., Fusari A., Invernizzi M.C. Innovative applications of geothermal energy for direct uses: a pilot study case in Marche region (Italy). *RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA*, vol. 41, p. 280-283, ISSN: 2035-8008, doi: 10.3301/ROL.2016.148

Scientific Publications

- 2016 – Articolo su rivista FUSARI A., CARROLL M.R., FERRARO S., GIOVANNETTI R., GIUDETTI G., INVERNIZZI C., MUSSI M., PENNISI M. Circulation path of thermal waters within the Laga foredeep basin inferred from chemical and isotopic (d18O, dD, 3H, 87Sr/86Sr) data. *Applied Geochemistry*, 78, 23-34. (2016)
- 2016 - Chicco J. M., Fusari A., Invernizzi M.C. Innovative applications of geothermal energy for direct uses: a pilot study case in Marche region (Italy). *RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA*, vol. 41, p. 280-283, ISSN: 2035-8008, doi: 10.3301/ROL.2016.148
- 2016 – Articolo su rivista R. Maffucci, S. Corrado, L. Aldega, S. Bigi, A. Chiodi, L. Di Paolo, G. Giordano, C. Invernizzi. Cap rock efficiency of geothermal systems in fold-and-thrust belts: evidence from paleo-thermal and structural analyses in Rosario de La Frontera geothermal area (NW Argentina). *Journ. Of Volcan. And Geoth. Res.* 328, 84-95 (2016)
- 2016 – Articolo su rivista Casas-Sainz A.M.1, Roman-Berdiel T., Oliva-Urcia B., Garcia-Lasanta C. Villalain J.J., Aldega L., Corrado S., Caricchi C., Invernizzi C., Osácar M.C., Multidisciplinary approach to constrain kinematics of fault zones at shallow depths: a case study from the Cameros–Demanda thrust (North Spain). *Int. J. Earth Sci*, DOI 10.1007/s00531-016-1349-5.(2016)
- 2015 – Articolo su rivista M. Bussolotto, A. Benedicto, L. Moen-Maurel, C. Invernizzi; Fault deformation mechanisms and fault rocks in micritic limestones: Examples from Corinth rift normal faults. ; *Journal of Structural Geology* 77 (2015) 191-212
- 2014 – (Articolo su rivista) Invernizzi C., Pieantoni P., Chiodi A., Maffucci R., Corrado S., Baez W., Tassi., Giordano G., Viramonte J. Preliminary assessment of the geothermal potential of Rosario de la Frontera area (Salta, NW Argentina): insight from hydro-geological, hydro-geochemical and structural investigations. *JSAES*, 54, 20-36
- 2013 – (Atti di Convegno) Fusari A., Invernizzi C. Fracture influence on thermal water circulation in foredeep basin: preliminary data from the southern Marche foothills, Italy. 32° Convegno Nazionale GNGTS Trieste 19-21 novembre 2013. ISBN 978-88-902101-6-7 (raccolta ISBN 978-88-902101-9-8)
- 2013 – Articolo su rivista Izquierdo-Llavall E., Aldega L., Cantarelli V., Corrado S., Gil-Peña I., Invernizzi C., Casas A. On the origin of cleavage in the Central Pyrenees: Structural and paleo-thermal study. *Tectonophysics*, 608, 303-318.
- 2013 Cantarelli V., Aldega L., Corrado S., Invernizzi C. & Casas-Sainz A. . Thermal history of the Aragón-Béarn basin (Late Paleozoic, western Pyrenees, Spain); insights into basin tectonic evolution. *Italian J.Geosci.* Vol. 132, No. 3 (2013), pp. 443-462 (Doi: 10.3301/IJG.2012.41)
- 2013 - Conference Proceedings FUSARI A., INVERNIZZI C., PIERANTONI P., CARROLL M. Preliminary insights from the Acquasanta thermal area (Marche, Italy). *European Geothermal Congress*, Pisa, 3-7 June 013. ISBN 978-2-8052-0226-1
- 2013 – Articolo su rivista T.Gabellone, M. Gasparrini, A.Iannace, C.Invernizzi, S.Mazzoli & M. D'antonio. Fluid channeling along thrust zones: the Lagonegro case history, southern Apennines, Italy. *GEOFLUIDS* 2013. Doi 10.1111/gfl 12020
- 2012 - R. Maffucci, P. Caffè, S. Corrado, C. Invernizzi, G. Giordano, P. Pierantoni, J. Viramonte (****) (2012). La Candelaria Ridge (NW Argentina) as a natural lab for the exploration of the geothermal system of Rosario de La Frontera: methods and preliminary results. *RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA*, vol. 21, p. 826-828, ISSN: 2035-8008
- 2012 - P. P. Pierantoni, C. Invernizzi, G. Giordano, S. Corrado, R. Maffucci, A. Chiodi, F. Tassi, J. Viramonte (2012). The geothermal System of Rosario de la Frontera (Salta, Argentina): preliminary geochemical and hydrogeological results. *RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA*, vol. 22, p. 186-189, ISSN: 2035-8008

Scientific Publications

- 2010 - Articolo in rivista
S. Corrado, C. Invernizzi, L. Aldega, M. D'Errico, P. Di Leo, S. Mazzoli, M. Zattin (2010). Testing the validity of organic and inorganic thermal indicators in different tectonic settings from continental subduction to collision: the case history of the Calabria Lucania border (southern Apennines, Italy). *JOURNAL OF THE GEOLOGICAL SOCIETY*, vol. 167, p. 985-999, ISSN: 0016-7649, doi: 10.1144/0016-76492009-137
- 2010 - Articolo in rivista
Magnoni M.L., Invernizzi C., Blasetti A. (2010). Viaggio nel Silicio. *MUSEOLOGIA SCIENTIFICA*, vol. 6, p. 85-88, ISSN: 1123-265X
- 2008 - Articolo in rivista
INVERNIZZI C., BIGAZZI G., CORRADO S., DI LEO P., SCHIATTARELLA M., ZATTIN M. (2008). New thermo-baric constraints on the exhumation history of the Liguride accretionary wedge, southern Italy. *OFIOLITI*, vol. 33, p. 21-32, ISSN: 0391-2612
- 2008 - Articolo in rivista
MAZZOLI S., D'ERRICO M., ALDEGA L., CORRADO S., INVERNIZZI C., SHINER P., ZATTIN M. (2008). Tectonic burial and "young" (<10 Ma) exhumation in the southern Apennines fold-and-thrust belt (Italy). *GEOLOGY*, vol. 36, p. 243-246, ISSN: 0091-7613
- 2008 - Contributo in volume (Capitolo o Saggio)
Pierantoni P.P., Invernizzi C. (2008). Aspetti geologici della Valle Scurosa e dei Piani di Montelago (Sefro, Macerata). In: AA.VV.. *Per l'istituzione del Parco naturale regionale dell'area Monte Pennino, ValleScurosa e Montelago*. p. 25-40, TRENTO: Tipografia Editrice Temi s.a.s., ISBN: 9788889706459
- 2008 - Articolo in rivista
INVERNIZZI C., ALDEGA L., CORRADO S., DI LEO P., D'ERRICO M., GIAMPAOLO C., MAZZOLI S., SCHIATTARELLA M., ZATTIN M. (2008). Thermal and thermochronological constraints to the southern Apennines evolution (Italy). *FIRST BREAK*, vol. 1, p. 1-5, ISSN: 0263-5046
- 2008 - Articolo in rivista
MAZZOLI S., ALDEGA L., ASCIONE A., CORRADO S., D'ERRICO M., INVERNIZZI C., PIGNALOSA A., SHINER P., ZATTIN M. (2008). Structural, morphotectonic and thermochronological constraints to the Late Miocene-Quaternary tectonic evolution and exhumation in the southern Apennines (Italy). *FIRST BREAK*, vol. 1, p. 6-10, ISSN: 0263-5046
- 2007 - Articolo in rivista
BUSSOLOTTO M., BENEDICTO A., INVERNIZZI M.C., MICARELLI L., PLAGNES V., DEIANA G. (2007). Deformation features within an active fault zone in carbonate rocks: The Gubbio fault (Central Apennines, Italy). *JOURNAL OF STRUCTURAL GEOLOGY*, vol. 29, p. 2017-2037, ISSN: 0191-8141
- 2006 - Articolo in rivista
MAZZOLI S., ALDEGA L., CORRADO S., INVERNIZZI C., ZATTIN M. (2006). Pliocene-Quaternary thrusting, syn-orogenic extension and tectonic exhumation in the Southern Apennines (Italy): Insights from the Monte Alpi area. In: *Styles of Continental Contraction* (Mazzoli S. & Butler R.W.H., eds.). *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*, vol. 414, p. 55-77, ISSN: 0016-7606
- 2005 - Articolo in rivista
MICARELLI L., BENEDICTO A., INVERNIZZI C., SAINT-BEZAR B., MICHELOT J.L., VERGELY P. (2005). Influence of P/T conditions on the style of normal fault initiation and growth in limestones from the SE-Basin, France. *JOURNAL OF STRUCTURAL GEOLOGY*, vol. 27, p. 1577-1598, ISSN: 0191-8141
- 2005 - Articolo in rivista
CORRADO S., ALDEGA L., DI LEO P., GIAMPAOLO C., INVERNIZZI C., MAZZOLI S., ZATTIN M. (2005). Thermal maturity of the axial zone of the southern Apennines fold-and-thrust belt (Italy) from multiple organic and inorganic indicators. *TERRA NOVA*, vol. 17, p. 56-65, ISSN: 0954-4879
- 2005 - Articolo in rivista
ALDEGA L., CORRADO S., DI LEO P., GIAMPAOLO C., INVERNIZZI C., MARTINO C., MAZZOLI S., SCHIATTARELLA M., ZATTIN M. (2005). The southern Apennines case history: thermal constraints and reconstruction of tectonic and sedimentary burials. *ATTI TICINENSIS DI SCIENZE DELLA TERRA*, vol. 10, p. 45-53, ISSN: 0394-0691

Scientific Publications

- 2005 - Articolo in rivista BUSSOLOTTO M., INVERNIZZI C., BENEDICTO A., MICARELLI L., PLAGNES V., DEIANA G. (2005). Constraints for the evolution of the Gubbio fault zone: preliminary results from micro-structural analysis, fluid inclusions, cathodoluminescence and stable isotopes analyses. *ATTI TICINENSI DI SCIENZE DELLA TERRA*, vol. 10, p. 77-80, ISSN: 0394-0691
- 2004 - Articolo in rivista MAZZOLI S., INVERNIZZI C., MARCHEGIANI L., MATTIONI L., CELLO G. (2004). Brittle-ductile shear zone evolution and fault initiation in limestones, Monte Cugnone (Lucania), southern Apennines, Italy. *SPECIAL PUBLICATION - GEOLOGICAL SOCIETY OF LONDON*, vol. 224, p. 353-373, ISSN: 0305-8719
- 2004 – Curatela ACCILI D., INVERNIZZI C. (a cura di) (2004). *Scuola e Università Insieme di più. Di Autori Vari*. vol. 1, p. 7-127, CAMERINO:UNICAM, ISBN: 9780000000002
- 2003 - Articolo in rivista INVERNIZZI C. (2003). The contribution of fluid inclusion studies in the solution of structural geology problem. *ATTI TICINENSI DI SCIENZE DELLA TERRA*, vol. 9, p. 120-123, ISSN: 0394-0691
- 2003 - Articolo in rivista ALDEGA L., CELLO G., CORRADO S., CUADROS J., DI LEO P., GIAMPAOLO C., INVERNIZZI C., MARTINO C., MAZZOLI S., SCHIATTARELLA M., ZATTIN M., ZUFFA G. (2003). TECTONO-SEDIMENTARY EVOLUTION OF THE SOUTHERN APENNINES (ITALY): THERMAL CONSTRAINTS AND MODELLING. *ATTI TICINENSI DI SCIENZE DELLA TERRA*, vol. 9, p. 135-140, ISSN: 0394-0691
- 2002 - Articolo in rivista CORRADO S., INVERNIZZI C., MAZZOLI S. (2002). Tectonic burial and exhumation in a foreland fold and thrust belt: the Monte Alpi case history (Southern Apennines, Italy). *GEODINAMICA ACTA*, vol. 15, p. 159-177, ISSN: 0985-3111
- 2002 - Articolo in rivista INVERNIZZI C. (2002). Utilizzo delle inclusioni fluide nella ricostruzione della storia deformativa: l'esempio di Marsico Nuovo (Appennino meridionale).. *STUDI GEOLOGICI CAMERTI. NUOVA SERIE*, vol. 2, p. 87-95, ISSN: 0392-0631
- 2001 - Articolo in rivista CELLO G., INVERNIZZI M., MAZZOLI S., TONDI E. (2001). Fault properties and fluid flow patterns from Quaternary faults in the Apennines, Italy. *TECTONOPHYSICS*, vol. 336, p. 63-78, ISSN: 0040-1951
- 2001 - Articolo in rivista CELLO G., TONDI E., MICARELLI L., INVERNIZZI M. (2001). Fault zone fabric and geofluid properties as indicators of rock deformation modes. *JOURNAL OF GEODYNAMICS*, vol. 32, p. 543-565, ISSN: 0264-3707
- 2000 - Articolo in rivista GAETA M., MOCHI L., INVERNIZZI C., CONTE A., MISITI V. (2000). Emplacement pressure condition of Gennargentu Igneous Complex two mica granites, central Sardinia, Italy. *PERIODICO DI MINERALOGIA*, vol. 69 (1), p. 1-18, ISSN: 0369-8963
- 1998 - Articolo in rivista INVERNIZZI C., VITYK M., CELLO G., BODNAR R. (1998). Fluid inclusions in high pressure/low temperature rocks from the Calabrian Arc (Southern Italy): the burial and exhumation history of the subduction-related Diamante-Terranova unit. *JOURNAL OF METAMORPHIC GEOLOGY*, vol. 16, p. 247-258, ISSN: 0263-4929
- 1998 - Articolo in rivista DE DONATIS M., INVERNIZZI C., LANDUZZI A., MAZZOLI S. & POTETTI M. (1998). CROP 03: Structure of the Montecalvo in Foglia - Adriatic Sea Segment. *MEMORIE DELLA SOCIETA' GEOLOGICA ITALIANA*, vol. 52, p. 617-630, ISSN: 0375-9857
- 1996 - Articolo in rivista BIGI S., CANTALAMESSA G., CENTAMORE E., DIDASKALOU P., DRAMIS F., FARABOLLINI P., GENTILI B., INVERNIZZI C., MICARELLI A., NISIO S., PAMBIANCHI G., M. POTETTI (1996). La fascia periadriatica marchigiano-abruzzese dal Pliocene medio ai tempi attuali. Evoluzione tettonico-sedimentaria e geomorfologia.. *STUDI GEOLOGICI CAMERTI. NUOVA SERIE*, vol. 1996/1, p. 37-49, ISSN: 0392-0631
- 1996 - Articolo in rivista CELLO G., INVERNIZZI C., MAZZOLI S. (1996). Structural signature of tectonic processes in the Calabrian Arc, southern Italy: Evidence from the oceanic-derived Diamante-Terranova unit. *TECTONICS*, vol. 15, p. 187-200, ISSN: 0278-7407

Scientific Publications

- 1995 - Articolo in rivista INVERNIZZI C., PIZZI A (1995). *Mesostructural analysis in a conglomeratic deposit along the Mt. Castello - Mt. Cardosa normal fault zone in the southern Umbro-Marchean Apennines (Central Italy)*. IL QUATERNARIO, vol. 8, p. 229-234, ISSN: 0394-3356
- 1994 - Articolo in rivista INVERNIZZI C. (1994). *Low Temperature deformation in naturally deformed marly limestones from the Umbria-Marche Apennines (Central Italy)*. ANNALES TECTONICAE, vol. VIII, p. 119-133, ISSN: 0394-5596
- 1992 - Articolo in rivista INVERNIZZI C. (1992). *Relazioni tra costruzione della catena e migrazione dell'avanfossa nell'area marchigiana esterna: alcune osservazioni*. STUDI GEOLOGICI CAMERTI. NUOVA SERIE, vol. XII, p. 71-78, ISSN: 0392-0631
- 1992 - Articolo in rivista INVERNIZZI C. (1992). *Jointing nell'area marchigiana esterna: caratteristiche geometriche e significato strutturale*. STUDI GEOLOGICI CAMERTI. NUOVA SERIE, vol. 1992/1, p. 137-144, ISSN: 0392-0631
- 1992 - Articolo in rivista INVERNIZZI C., RIDOLFI M (1992). *Analisi dello stile deformativo e delle cinematiche nelle Formazioni pretorbiditiche dell'area della Montagna dei Fiori*. STUDI GEOLOGICI CAMERTI. NUOVA SERIE, vol. XII, p. 79-91, ISSN: 0392-0631
- 1992 – Curatela Farabollini P., Invernizzi C., Pizzi A., Cavinato G.P., Miccadei E. (a cura di) (1992). *Studi Geologici Camerti "Evoluzione geomorfologica e tettonica quaternaria dell'Appennino centro-meridionale"*. Di -. STUDI GEOLOGICI CAMERTI. NUOVA SERIE, Camerino: Centro Stampa dell'Università di Camerino, fino al 1999. Dal 2002 Edimond srl, Via Morandi 25 - Casella Postale 178, 06012 Città di Castello (PG) Tel. (075) 8521451 - Fax (075) 8520907 sito web: www.edimond.com e-mail: edimond@edimond.com, ISSN: 0392-0631
- 1991 - Articolo in rivista CALAMITA F., INVERNIZZI C. (1991). *Mesostructural analysis on the conglomerates of the outer marchean area (between M. Ascensione and S. Benedetto)*. BOLLETTINO DELLA SOCIETÀ GEOLOGICA ITALIANA, vol. 110, p. 667-673, ISSN: 0037-8763
- 1991 - Contributo in volume (Capitolo o Saggio)
F. Calamita, G. Deiana, C. Invernizzi, A. Pizzi (1991). *Tettonica*. In: AA.VV.. L'AMBIENTE FISICO DELLE MARCHE. p. 69-80, Firenze:SELCA,
- 1990 - Articolo in rivista CALAMITA F., CELLO G., INVERNIZZI C., PALTRINIERI W. (1990). *Stile strutturale e cronologia della deformazione lungo la traversa M.S. Vicino-Polverigi (Appennino marchigiano esterno)*. STUDI GEOLOGICI CAMERTI. NUOVA SERIE, vol. "Neogene Thrust Tectonics", p. 69-86, ISSN: 0392-0631
- 1987 - Articolo in rivista CALAMITA F., DEIANA G., INVERNIZZI C., MASTROVINCENZO S. (1987). *Analisi strutturale della "linea Ancona-Anzio" Auct. tra Cittareale e Micigliano (Rieti)*. BOLLETTINO DELLA SOCIETÀ GEOLOGICA ITALIANA, vol. 106, p. 365-375, ISSN: 0037-8763
- 1987 - Articolo in rivista CANTALAMESSA G., CENTAMORE E., CRISTALLINI C., INVERNIZZI C., MATTEUCCI R., MICARELLI A., PICCINI M., PONTONI F. & POTETTI M. (1987). *Nuovi dati sulla geologia di Porto San Giorgio (Marche meridionali)*. GEOLOGICA ROMANA, vol. XXVI, p. 359-369, ISSN: 0435-3927
- 1987 - Articolo in rivista CALAMITA F., MASTROVINCENZO S., INVERNIZZI C. (1987). *Analisi mesostrutturale dei depositi mio-pliocenici della zona marchigiana esterna*. ACTA NATURALIA DE L'ATENEO PARMENSE, vol. 23, p. 265-272, ISSN: 0392-419X
- 1987 - Articolo in rivista CALAMITA F.; COPPOLA G.; DEIANA G.; INVERNIZZI C.; MASTROVINCENZO S. (1987) *Le associazioni strutturali di Genga e M.te Rotondo: un motivo ricorrente nella thrust-belt umbro-marchigiana settentrionale*. pp.141-151. In BOLLETTINO DELLA SOCIETÀ GEOLOGICA ITALIANA - ISSN:0037-8763 vol. 106 (1)

Didactic and divulgative publications

- Roselli, Blasetti, Crocetti, Invernizzi, Magnoni, Minicucci, Di Girolami & Cinaglia. Reagire all'emergenza: progettualità e risultati delle attività del Sistema Museale d'Ateneo dell'Università di Camerino ad un anno dall'inizio della crisi sismica. MUSEOLOGIA SCIENTIFICA MEMORIE • N. 19/2019 • 75-80. (2018)
- Blasetti, Bonomo, Crocetti, Giordano, Invernizzi, Lucente & Magnoni. Rosetta: da missione spaziale esemplare ad esempio di divulgazione. MUSEOLOGIA SCIENTIFICA MEMORIE • N. 19/2019 • 45-49 (2018).
- Stroppa Pierluigi, Paris Eleonora, Invernizzi Maria Chiara, Pierantoni Pietro Paolo (2016). A space-time journey through the composite Conero Geosite (Marche, Italy): a tool for teaching Earth Sciences at school. RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA, vol. 40, p. 85-90, ISSN: 2035-8008, doi: 10.3301/ROL.2016.76
- Lancellotti Lorenzo, Invernizzi Maria Chiara, Paris Eleonora (2016). Can a website make high school teachers without a geological background more self confident towards Earth Sciences teaching?. RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA, vol. 40, p. 22-30, ISSN: 2035-8008, doi: 10.3301/ROL.2016.67
- Realdon Giulia, Invernizzi Maria Chiara, Paris Eleonora (2016). Teaching Earth Sciences in Italian liceo high schools following the 2010 reform: a survey. RENDICONTI ONLINE DELLA SOCIETÀ GEOLOGICA ITALIANA, vol. 40, p. 71-79, ISSN: 2035-8008, doi: 10.3301/ROL.2016.74
- *Lorenzo Lancellotti; Maria Chiara Invernizzi; Eleonora Paris 2013. TEACHING EARTH SCIENCE: A WEB SITE FOR TEACHERS. pp.3317-3322. In 6th International Conference of Education, Research and Innovation Seville, Spain. 18-20 November, 2013 - ISBN:9788461638475*
- *Blasetti A., Magnoni M.L., Invernizzi M.C. (2015) La rete dei Musei Scientifici delle Provincia di Macerata. Atti ISPRA Covegnp "Geologia e Turismo 2013", pp. 383-390.*
- *INVERNIZZI C., (2014) 'Reti di intenti': la Rete dei Musei scientifici della Provincia di Macerata In: "Musei e Patrimonio in rete: dalle reti di musei al distretto culturale evoluto" a cura di Lucia Cataldo – 2014 HOEPLI*
- *INVERNIZZI C. (2014) – La tradizione scientifica marchigiana e i suoi musei. In MARCHE le scoprirai all'infinito: i musei delle Marche, guida alla scoperta. Regione Marche, pp. 31-33. www.turismo.marche.it*
- *Blasetti. A., Magnoni M.L., Invernizzi M.C., Tacchi R. (2014) Veleni, istruzioni per l'uso. L'esposizione temporanea, l'attività educativa IBSE, gli eventi collaterali. Museologia Scietifica vo.8, 2014 nuova serie, pp. 115-124*
- *Macario M., Invernizzi M.C. Paris E., Talarico F.M. (2013) FROM THE POLAR REGIONS TO THE SCHOOLS: TEACHING TOOLS FOR EVIDENCE-BASED POLAR EDUCATION IN ITALY 2013;Pages:1 -8 [Poster atto convegno su volume]*
- *Lancellotti Lorenzo; Invernizzi Maria Chiara; Paris Eleonora 2013; How to Improve the Earth Science Teaching at School Using the Web Pages:318 -324 [Poster atto convegno su volume]*
- *B. Scapellato; E. Paris; C.Invernizzi (2013) In-service teacher training to take IBSE approach into Earth science teaching in italian secondary schools . 2013;Pages:350 -353 [Poster atto convegno su volume]*
- *Scapellato B., Invernizzi C., Paris E. (2013) In-service teacher training to take IBSE approach into earth science teaching in Italian secondary schools. International Conference in Science Education, 2nd Edition.*

- Didactic and divulgative publications
- M.C. INVERNIZZI (2012)- Reti Territoriali e Tematiche: la Rete dei Musei Scientifici della Provincia di Macerata, in: Territorio e società: il ruolo dei musei in un mondo che cambia, Atti del Convegno Nazionale ICOM (Ancona, giugno 2012) c.d.s
 - C. INVERNIZZI (2012) A SPASSO CON I CONTINENTI. Una mostra interattiva a cento anni dalla teoria di Alfred Wegener. Museo delle Scienze – Camerino. GeoItalia n. 39 (Dicembre 2012) pag.56. ISSN1724-4285
 - C. INVERNIZZI, M. L. MAGNONI, A. BLASETTI (2011). Realizzare una comunicazione biunivoca: i linguaggi del progetto “Energie”. Atti del XIX Congresso ANMS “Strategie di Comunicazione delle Scienze nei Musei”. Napoli, 18-20 novembre 2009. Museologia Scientifica - Memorie, n.8, pp. 98-103.
 - M.L. MAGNONI, M.C. INVERNIZZI, A. BLASETTI (2010). Viaggio nel Silicio. Atti del XVIII Congresso ANMS “Musei Scientifici Italiani verso la sostenibilità”, Roma, 3-5 dicembre 2008. Museologia Scientifica - Memorie, n. 6, pp. 85-88
 - 2009 – Volume divulgativo
BLASETTI A., INVERNIZZI C. (2009). Viaggio nel Silicio. vol. 2, p. 9-70, Macerata:Scocco & Gabrielli, ISBN: 9788890406713

- Projects
- INTERREG Italy-Croazia 2018: COASTENERGY-Blue Energy in ports and coastal urban areas
 - FAR (Fondo di Ateneo per la Ricerca) 2014-2015: MATREND (Materials and Technologies for improving the use of Renewable Energy in the District of smart city)
 - CUIA 2014: Sustainable development of the geothermal systems associated with the volcanic systems of the Puna plateaux in the Salta and Jujuy Provinces (NW Argentina): start-up workshop, and project presentation at the Days of CUIA 2014 (Coordinator)
 - N. 12 (twelve) nazionali (MIUR) or regional projects on Science outreach and dissemination from 2007 to 2013, among which:
 - “La Natura del colore” D.D. 07.05.2009 n.364/Ric (Project Coordinator)
 - “Veleni istruzioni per l’uso. Insegnare la scienza investigando” Bando Regionale per l’autonomia scolastica LEG.REG.45 del 27/12/2012 art.38, D.D.P.F. 181/IFD 22/07/2013
 - S-travolgiamo i luoghi della cultura: i giovani c’entrano D.G.R 483/2012
 - Veleni: istruzioni per l’uso. Dall’elisir di lunga vita alle sostanze venefiche, passando dai rimedi per ogni male. La lunga storia del rapporto uomo-natura alla scoperta della cura per ogni paura (2012)
 - CUIA 2010-2011: Exploration and use of medium and low enthalpy geothermal resources in the sub-Andean area for the sustainable energy development of the cities of the provinces of Jujuy and Salta (NW Argentina); international project coordinator
 - PRIN 2004: Integrated methodologies (maturity of organic matter, fluid inclusions, mineralogy and geochemistry of clays, fission traces and U-Th / He age) for the reconstruction of tectonic / sedimentary loads and exhumation in the southern Apennines (Calabrian-Lucanian border) and in eastern Sicily (sedimentary fold and thrust belt): Research Unit Responsible
 - CNR-Agenzia 2000 (codice CNRC007AA8_004, Coordinatore G. Zuffa): Carichi tettonico-sedimentari ed esumazione dell’Appennino meridionale e della Sicilia orientale attraverso studi di tracce di fissione, materia organica, mineralogia delle argille e inclusioni fluide (Research Unit Responsible)

Honours and awards	<ul style="list-style-type: none">• Premio “Secondo Franchi” 2013 della Società Geologica Italiana per il lavoro ‘CANTARELLI V., ALDEGAL., CORRADO S., INVERNIZZI C. & CASAS-SAINZA. . Thermal history of the Aragón-Béarn basin (Late Paleozoic, western Pyrenees, Spain); insights into basin tectonic evolution.’ Italian J.Geosci. Vol. 132, No. 3• Premio al Museo delle Scienze di Unicam in occasione del XXX° Convegno Nazionale dell'ANMLI (Associazione Nazionale Musei Locali e Istituzionali), Torino, 10-11 Aprile 2014. Premiata la Mostra “Silicio Inside” come progetto museale innovativo per la sezione “Interdisciplinarietà”
Memberships	Società Geologica Italiana- SGI; Unione Geotermica Italiana-UGI; American Geophysical Union; ICOM
References Citations	905 citations, h index 19, i10-index 29 (from 2014 416 citations, h index 12, i10-index 19) (source: Google Scholar)

A complete and exhaustive Curriculum vitae of M.Chiera Invernizzi is available as PDF document at <http://docenti.unicam.it/tmp/cr400.pdf>

I the undersigned authorize the processing of personal data contained in my curriculum vitae based on art. 13 of Legislative Decree 196/2003 and art. 13 of EU Regulation 2016/679 concerning the protection of individuals with regard to the processing of personal data

M.Chiera Invernizzi