

Mirona Chirienco

CONTACT INFORMATION Okinawa Institute of Science & Technology
1919-1 Tancha
Onna-son, Okinawa 904-0495, Japan

EDUCATION **University of Illinois at Urbana–Champaign**, Urbana, Illinois, USA
Master of Science, Geology, Aug 2010

- Thesis: Interpretations of paleoclimate and speleogenesis from speleothems in Donnehue’s Cave, Indiana
- List of courses: Petroleum Geology, Integrated Graduate Earth Science, Sedimentology and Stratigraphy, Analytical Geochemistry, Structural Geology and Tectonics, Mineralogy and Mineral Optics.

University of Cluj, Cluj, Romania, **University of Erlangen**, Erlanger, Germany, and **University of Science and Technology**, Krakow, Poland.

Master of Science, Geology (Joint-degree program), “Carbonate Rocks: Facies and Technical Use.” Jul 2007

- Thesis: Microfacies analysis on upper Cretaceous-lower Jurassic limestone from Persani Mountains, Romania

University of Cluj, Cluj, Romania

Bachelor of Science, Geology, Jul 2006

- Thesis: The speleogenetic interpretation of gypsum deposits from Frasassi and Faggeto Tondo Caves, central Italy

RESEARCH EXPERIENCE **Okinawa Institute of Science and Technology**, Onna-son, Okinawa, Japan
Geologist, Science and Technology Group **Oct 2012 – Present**

- Conduct research on abrupt climate changes in the last half millennium in continental USA
- Investigate the potential for past climate records in Okinawa
- Current projects are listed here: <https://groups.oist.jp/stg/mirona-chirienco>

Weatherford (Isotech Laboratories Inc.), Champaign, Illinois, USA
Project Manager

May 2011 – Oct 2012

- Analyzed natural gas samples for isotopic fingerprinting
- Generated routine and detailed interpretive reports
- Coordinated analytical work for satellite laboratories

Illinois State Geological Survey, Champaign, Illinois, USA
Member, Isotope Geochemistry Group

Aug 2010 – May 2011

- Performed stable (C, O) and unstable (U, Th, Pa) isotope analyses
- Interpreted laboratory results and prepared reports

- ❑ Conducted field investigations and collected samples

ExxonMobil, USA

Summer Internship, Clinton, New Jersey, USA

Jun 11 – Aug 13, 2009

- ❑ Examined microfacies of sedimentary rocks

Institute for Study of the Earth's Interior, Okayama, Japan

COE-21 Program

Jul 2 – Aug 10, 2007

- ❑ Performed high pressure and high temperature experiments using laser-heated diamond anvil cells

Leeds University, Leeds, United Kingdom

Visiting Fellowship

Apr 10 – May 8, 2005

- ❑ Conducted sulfur isotope analyses
- ❑ Identified the genetic origin of the Frasassi Cave (Italy) gypsum deposits based on their isotopic signature

Carlo Bo University, Urbino, Italy

Erasmus Scholarship

Feb 15 – Jun 30, 2004

- ❑ Performed field mapping and sampling of gypsum deposits from the Frasassi and Faggeto Tondo Caves, central Italy

Bristol University, Bristol, United Kingdom

Research Scholarship

Sep 9 – 23, 2002

- ❑ Performed advanced spectroscopic analyses (ICP-AES)

Bergen University, Bergen, Norway

Junior Fellowship

Mar 10 – 26, 2002

- ❑ Conducted mineralogical analyses using XRD and SEM

ADDITIONAL
RESEARCH
TRAINING

ExxonMobil, USA

Sequence Stratigraphy Short Course, Urbana, IL, USA

Jan 29 – 30, 2011

- ❑ Studied principles and methods of sequence stratigraphy.
- ❑ Analyzed outcrop, core, well log and seismic data.

ExxonMobil, USA

Integrated Basin Analysis Field Course, Bighorn Basin, Wyoming, USA **May 16 – 22, 2010**

- ❑ Investigated the Bighorn Basin stratigraphy and structural geology
- ❑ Identified plays and play elements in this basin

University of Illinois at Urbana–Champaign, Urbana, IL, USA

Advanced Field Geology, Arizona, Nevada and California, USA

Mar 21 – 28, 2009

- ❑ Investigated the tectonic history of western USA
- ❑ Examined the petrology and structural geology of selected areas

- TEACHING EXPERIENCE **University of Illinois at Urbana–Champaign**, Urbana, IL, USA
Teaching Assistant, Department of Geology **Jan 2009 – May 2010**
- Course Taught: Planet Earth (Spring 2008, Fall 2008, Spring 2009, Fall 2009)
- HONORS AND AWARDS List of Teachers Ranked as Excellent by their Students, University of Illinois at Urbana–Champaign, USA, Spring 2009, Fall 2009.
Leighton Award for graduate research, Department of Geology, University of Illinois at Urbana–Champaign, USA, 2008
Outstanding undergraduate research scholarship, University Of Cluj, Romania, 2003
- PUBLICATIONS **Chirienco, M.** 2014. Karst. *Encyclopedia of Planetary Landforms*, Springer, 1-6, doi: 10.1007/978-1-4614-9213-9_506-1.
- Chirienco, M.** 2014. Karst-like landforms. *Encyclopedia of Planetary Landforms*, Springer, 1-6, doi: 10.1007/978-1-4614-9213-9_630-1.
- Chirienco, M., Persoiu, A.** 2014. Cave. *Encyclopedia of Planetary Landforms*, Springer, 1-5, doi: 10.1007/978-1-4614-9213-9_32-1.
- Menichetti, M., **Chirienco, M.I.**, Onac, B.P., Bottrell, S. 2008. Depositi di gesso nelle grotte del Monte Cucco e della Gola di Frasassi—Considerazioni sulla speleogenesi (English translation: Gypsum deposits in Monte Cucco and Frasassi Caves—Speleogenesis considerations). *Memorie dell'Istituto Italiano di Speleologia*, s.II, vol. XXI, 308-325.
- Chirienco, M.I.** 2004. The crystalline phase of the carbonate moonmilk: a terminology approach. *Acta Carstologica*, 33/1, 17, 257-264.
- Onac, B.P., Veres, D.S., Kearns, J., **Chirienco, M.I.**, Minut, A., Breban, R. 2003. Secondary sulphates found in an old adit from Rosia Montana, Romania. *Studia Universitatis, Babes–Bolyai, Geologia XLVIII (1)*, 29-44.
- Chirienco, M.I.** 2002. Calcite moonmilk in the Humpleu Cave system (Romania): the relationship between morphology and cave topoclimate. *Cave and Karst Science*, vol. 29, No 3, 101-104.
- CONFERENCE ABSTRACTS Menichetti, M., **Chirienco, M.I.**, Onac, B.P., Bottrell, S. 2009. Isotopic investigations on gypsum deposits from caves in central Italy. *Proceedings of the 15th International Congress of Speleology*, vol. 1, 306.
- Marian, V.A., Bucur, I., **Chirienco, M.I.**, Sasaran, E. 2007. Facies characteristics of the Lower Cretaceous limestones from Garbova area (Persani Mountains). *Annual Scientific Session "Ion Popescu Voitesti"*, Babes-Bolyai University, Editors: Filipescu, S. and Bucur I., 36-37.