

Carlo Salvinelli, Ph.D.

CONTACT INFORMATION

University of Colorado Boulder
Department of Civil, Environmental and Architectural Engineering
Mortenson Center in Global Engineering
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EDUCATION

- | | | |
|-----------------------|---|---|
| Jun 13-Jul 16 | Missouri University of Science and Technology
Ph.D., Geological Engineering
Dissertation: Lifetime and effectiveness evaluation of ceramic pot filters. | ROLLA, MISSOURI
GPA: 3.9/4.0 |
| Feb 14-Nov 14 | University of Missouri System
Graduate Leadership Development Program | ROLLA, MISSOURI |
| Sept 08-Nov 12 | University of Brescia
Master of Science, Engineering Management
Thesis: Technical, economic and organizational project for the development of a fish processing cooperative enterprise: the case CENTROMAR. | BRESCIA, ITALY
99/110 |
| Sept 05-Dec 06 | Technical University of Madrid (UPM)
Bachelor of Science, Industrial Engineering, Erasmus Grant Program | MADRID, SPAIN |
| Sept 03-Feb 07 | University of Brescia
Bachelor of Science, Industrial Engineering
Thesis: Quality certifications for the exportation of agricultural and food products in the European community: the case Nicaraocoop. | BRESCIA, ITALY
96/110 |

PROFESSIONAL EXPERIENCE

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|-----------------------|---|--------------------------|
| Aug 17-Present | University of Colorado Boulder - Department of Civil, Environmental and Architectural Engineering
Instructor
Course design and development, teaching and research activities in the area of Global Engineering. Taught courses: Humanitarian Response and Disaster Management, First Year Engineering Projects, Fieldwork Methods for Global Engineers, International Development Project Management. | BOULDER, COLORADO |
| Oct 16-Aug 17 | Missouri S&T - Material Research Center
Researcher
Investigation of performance and rehabilitation of ceramic pot filters. | ROLLA, MISSOURI |

- Aug 13-Jul 16 Missouri S&T – Geological Engineering Program** **ROLLA, MISSOURI**
Graduate Teaching/Research Assistant
 Instructor of record for the senior design course sequence: “International Engineering and Design.” (Two semesters including a three weeks field trip to Guatemala). Laboratory and field research related to household water treatment systems for underserved communities.
- May 10-Sept 12 International Committee for the Development of People** **GUATEMALA, BELIZE, HONDURAS**
Project Manager
 Execution of the project “Regional protection of biodiversity and promotion of the improvement of life in coastal communities of the Gulf of Honduras, Guatemala.”, funded by the Italian Ministry of Foreign Affairs and International Cooperation. €1,670,913.
- Jan 09-Mar 10 UNESCO Chair on Touristic Planning and Sustainable Development - University of Las Palmas de Gran Canaria** **LIVINGSTON, GUATEMALA**
Project Manager
 Development and execution of the project “Community Tourism Development, with a focus on eco-villages in the Mayan communities of Rio Dulce National Park, Guatemala.”, funded by Obra Social Caja Madrid, Spain. €56,000.
- Jan 09-Dec 09 UNESCO Chair on Touristic Planning and Sustainable Development - ULPGC** **LIVINGSTON, GUATEMALA**
Project Manager
 Development and execution of the project “Generation of biogas for cold storage centers for artisanal fisheries in Guatemala and comparison with other energy solutions.”, funded by the municipality of Las Palmas de Gran Canaria, Spain. €25,000.
- Oct 08-Apr 09 Institute of Higher Education Carlo Beretta (High School)** **BRESCIA, ITALY**
Teacher
 Subjects: technical drawing and industrial organization.
- Jun 07-Mar 08 UNESCO Chair on Touristic Planning and Sustainable Development - ULPGC** **PTO. BARRIOS, GUATEMALA**
Project Manager
 Development and execution of the project “Conservation and development: establish cold chain to support small-scale production of processed fish in communities of the Manabique Wildlife Refuge, Department of Izabal, Guatemala.”, funded by the government of Canary Islands, Spain. €131,650.05.

Jun 07-Apr 10 **UNESCO Chair on Touristic Planning and Sustainable Development - ULPGC** **LAS PALMAS, SPAIN**

Responsible for technological solutions

Feasibility studies, proposal development and coordination of international development projects with technological content.

Mar 07-Jun 07 **Institute of Higher Education Carlo Beretta (High School)** **BRESCIA, ITALY**

Teacher

Subjects: Mechanical technology, machines, hydraulics, industrial technical drawing, industrial organization.

VOLUNTARY WORK

Aug 17-Present **Engineers Without Borders USA** **BOULDER, COLORADO**

Mentor of the Guatemala, Rwanda and Nepal teams of the EWB-USA chapter at CU Boulder.

Jul 15-Present **Amici di Ariwara ONLUS, Ass. Cantieri Innovazione** **BRESCIA, ITALY**

Collaboration with the staff in the design and implementation of international development projects focused on energy and WASH solutions for underserved communities.

Sept 06-Mar 07 **Engineers Without Borders Spain – (UPM)** **MADRID, SPAIN**

Participation in the project to improve quality management and information system for Nicaraguacoop (Nicaraguan cooperative): market study and certifications to export food products.

Jul 06-Jul 15 **SIPEC Foundation** **BRESCIA, ITALY**

Collaboration with the staff in the design and implementation of international development projects with technological content in Latin America and Africa.

AWARDS

Dec 2013 **CeTAmb - University of Brescia** **BRESCIA, ITALY**

Distinguished thesis award: appropriate technologies for environmental management in developing countries. M.Sc. Thesis.

PROFESSIONAL SOCIETY MEMBERSHIP

2014-Present **American Society of Civil Engineers (ASCE)**
Environmental and Water Resources Institute (EWRI)

Secretary of the Visiting International Fellowship Committee, and member of Students Council and Sustainability Committee.

PUBLICATIONS (*STUDENT)

Obrist-Farner, J., Brenner, M., Curtis, J. H., Kenney, W. F., Salvinelli, C. 2019. Recent onset of eutrophication in Lake Izabal, the largest water body in Guatemala. *J Paleolimnol*, pp 1-14. DOI:10.1007/s10933-019-00091-3

Mutungwa, W., Pieper*, Z., Macharia*, S., Salvinelli, C., 2019. Rainwater Catchment Systems to Increase Water Access in the Rural Area of Northern Province, Rwanda. World Environmental and Water Resources Congress, ASCE, Pittsburgh, PA, May 19-23. DOI: 10.1061/9780784482322.016

Salvinelli, C., Merfeld-Langston, A., Elmore, A.C. 2018. Comparison of Field-Measured Ceramic Pot Filter Performance and Users' Perception of Performance in Coastal Guatemala. World Environmental and Water Resources Congress, ASCE, Minneapolis, MN, June 3-7. DOI: 10.1061/9780784481394.020

Dobias, J., Salvinelli, C. 2018. Linear Regression Analysis and Statistical Models Using Oceanic and Atmospheric Variables for Streamflow Forecasting in Chixoy River, Guatemala. World Environmental and Water Resources Congress, ASCE, Minneapolis, MN, June 3-7. DOI: 10.1061/9780784481417.028

Goodwin*, J., Elmore, A.C., Salvinelli, C., Reidmeyer, M.R. 2017. An optical method for characterizing carbon content in ceramic pot filters. *J Water Health*, 15(4). DOI: 10.2166/wh.2017.049

Salvinelli, C., Elmore, A.C., García Hernandez, B.R., Drake, K.D. 2017. Ceramic Pot Filters Lifetime Study in Coastal Guatemala. *J. Water Health*, 15(1) 145-154. DOI: 10.2166/wh.2016.082

Salvinelli, C., Elmore, A.C., Reidmeyer, M.R., Drake, K.D., Ahmad, K.I. 2016. Characterization of the relationship between ceramic pot filter water production and turbidity in source water. *Water Research*, 104, 28-33. DOI: 10.1016/j.watres.2016.07.076

Salvinelli, C., Elmore, A.C. 2015. Assessment of the impact of water parameters on the flowrate of ceramic pot filters in a long-term experiment. *Water Sci. Technol. Water Supply*, 15(6), 1425-1432. DOI: 10.2166/ws.2015.107

White*, E. P., Langenfeld*, J. K., Bradford*, E. L., Haywood*, H. G., Salvinelli, C., and Elmore, A.C. 2015. Assessment of Flow Rate as a Quality Control Test for Ceramic Pot Filters. World Environmental and Water Resources Congress, ASCE, Austin, TX, May 17-21. DOI: 10.1061/9780784479162.136

LANGUAGE SKILLS (proficiency level: 1 = excellent, 5 = basic)

Italian	Mother tongue	Portuguese	4
English	2	French	4
Spanish	1	German	5