

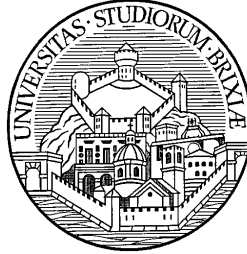


UNIVERSITÀ DEGLI STUDI DI BRESCIA
DIPARTIMENTO DI INGEGNERIA CIVILE, ARCHITETTURA, TERRITORIO, AMBIENTE E DI MATEMATICA.
DICATAM

**CeTAmb LAB - LABORATORY CENTRE ON APPROPRIATE TECHNOLOGIES FOR ENVIRONMENTAL
MANAGEMENT IN RESOURCE-LIMITED COUNTRIES**

Via Branze 43 – 25123 BRESCIA

Direttore scientifico: prof. Carlo Collivignarelli - Segreteria scientifica: ing. Sabrina Sorlini



UNIVERSITY OF BRESCIA

DEPARTMENT DICATAM

CeTAmb LAB

**LABORATORY CENTRE ON APPROPRIATE TECHNOLOGIES FOR
ENVIRONMENTAL MANAGEMENT IN RESOURCE-LIMITED COUNTRIES**

CeTAmb Lab presentation

Via Branze, 43 – 25123 BRESCIA (ITALY)



UNIVERSITÀ DEGLI STUDI DI BRESCIA
DIPARTIMENTO DI INGEGNERIA CIVILE, ARCHITETTURA, TERRITORIO, AMBIENTE E DI MATEMATICA.
DICATAM

CeTAmb LAB - LABORATORIO DI DOCUMENTAZIONE E RICERCA SULLE TECNOLOGIE APPROPRIATE
PER LA GESTIONE DELL'AMBIENTE NEI PAESI A RISORSE LIMITATE

Via Branze 43 – 25123 BRESCIA

It was born in April 2000 at the Faculty of Engineering of Brescia. Its scientific director is Carlo Collivignarelli, full Professor of Environmental and Sanitary Engineering.

AIM

CeTAmb aim is the promotion of research activities on **“Appropriate Technologies for environment management in Developing Countries”** within the University and in direct collaboration with no profit organizations (NGOs, Associations, Cooperatives, etc.).

PROGRAMMES

- To favour **contacts** with NGOs, universities, research institutes, enterprises, both in Italy and in the Developing Countries.
- To promote the spread of information and documents concerning cooperation projects through the realization of a documentation centre (books, papers, reviews, mission reports, projects, Degree and PhD thesis) and the publication of informative papers.
- To promote, coordinate and **develop research** activities in collaboration with Developing Countries.
- To encourage **cultural exchanges** of students and researchers between Italy and Developing Countries.
- To organize specific **seminars** in Universities and secondary schools, in order to make the students aware on the environmental issues in Developing Countries.
- To organize **workshops, courses and conferences** for presenting CeTAmb activities, in collaboration with research institutes and public and private enterprises.

CONCLUDED ACTIVITIES

- **“Solid waste recycling for energy production in Korogocho landfill”**, in collaboration with CAUTO (a cooperative working on wastes collection and recycling in Brescia) (1997-1998).
- **“Energy production from agricultural wastes (Burkina Faso)”**, in collaboration with ManiTese NGO (2001).
- **“Water monitoring and treatment for drinking purpose in Sololo (Kenya)”**, in collaboration with Politecnico di Milano, CCM (Torino) and Action Against Hunger NGO since (UK) (2001).
- **“Effects of technological infrastructures on the development of informal settlements in Bolivar**

(Venezuela)”, in collaboration with University of Venezuela and, UNEXPO (Ciudad Guayana) (2001).

- **“Road infrastructural devices: the case of Caracas”**, in collaboration with University of Venezuela (2001).
- **“Monitoring of surface water sources in Ghana”**, in collaboration with WRC (Water Resources Commission) of Ghana, Ghana Hydrological and Meteorological Services and University of Accra (2002).
- **“Recovery of plastic waste in Thies (Senegal)”**, in collaboration with LVIA NGO (Cuneo) (2002).
- **“Design and construction of a wind power pump in Guinea”**, in collaboration with Maison des Enfants (2003).
- **“Study for the realization of an energy production system in an orphanage in Guinea”**, in collaboration with Maison des Enfants (2003).
- **“Urban solid waste management in Egypt”**, in collaboration with CESVI NGO (Bergamo) (2003).
- Collaboration with CESAR association and Cesare Mazzolari to design a **bridge on Payee River**, in Rumbek diocese, South Sudan (2004).
- **“Drinking water treatment and distribution in villages next to Kolkata (West Bengal)”**, in collaboration with SISM (2004).
- **“Solid waste management in Lougà, Senegal”**, in collaboration with CESVI NGO (Bergamo) (2004).
- **“Solid waste management in Chimaltenango (Guatemala)”**, in collaboration with Fondazione G. Piccini and Kato-Ki NGO (Brescia) (2004).
- **“Tsunami effect on water qualities and diseases vectors in Phang-Nga province (Thailand)”**, in collaboration with Faculty of Medicine of Brescia, Medicus Mundi NGO (Brescia) and Mahidol University (Thailand) (2004-2007).
- **“Use of renewable fuels for fish smoking in Santa Yalla (Casamance, Senegal)”**, in collaboration with Snata Yalla Community and University of Dakar (2004-2005).
- **“Appropriate solutions for arsenic removal from drinking water in West Bengal and Bangladesh”**, in collaboration with Danmarks Tekniske Universitet DTU (Denmark) (2006).
- **“Management of wastewater from Saint Luke Hospital in Wolisso (Ethiopia)”** in collaboration with Medici con Africa - CUAMM (2006).
- **“Integrated project for sustainable development in Pojuca river basin, Bahia (Brazil)”**, in collaboration with University of Insubria and Federal University of Bahia (2007).
- **“Technologies for manure recycling in Developing Countries”** (2007).
- **“Technologies for drinking water disinfection in Developing Countries”** (2007).



- **“Development of Rwenzori National Park in Uganda”**, in collaboration with Umana Dimora and AVSI NGOS (2007).
- **“Wastewater reuse in agriculture”**, in collaboration with ASM Brescia Spa, “G. Pastori” technical high school and “Spedali Civili” (Brescia) (2001-2008).
- **“Somalia Urban Development Programme”**, in collaboration with UNA Consortium and UN-HABITAT (2005-2008).
- **“Urban solid waste management in Zurite and Izcuchaca (Perù)”**, in collaboration with SVI NGO (2006-2008).
- **“Issues on drinking water management in the distribution network at Chacas (Perù)”**, in collaboration with MATO GROSSO (2006-2010).
- **“Waste recovery and recycling in Nairobi (Kenya)”**, in collaboration with NAREC LNGO (2007-2008).
- **“Urban solid waste management in Sololo (Kenia)”**, in collaboration with CCM, Torino (2007-2008).
- **“Construction of a well in Figuil (Camerun)”**, in collaboration with CAMSTU BS (no profit organization) (2008).
- **“Management of environmental issues in Nanoro Hospital (Burkina Faso)”**, in collaboration with Medicus Mundi NGO (2008).
- **“SISDISC (Support to Improved Service Delivery In Somali Cities)”**, in collaboration with CESVI (2008-2009).
- **“Management of municipal solid waste in Larache (Morocco)”**, in collaboration with CESVI NGO (2009).
- **“Management of wastewaters in a school in Nairobi”**, in collaboration with Amani NGO (2009).
- **“Environmental evaluation in a community in Southern Cairo”**, in collaboration with CESVI NGO (2009).
- **“Drinking water supply in Chacas”**, in collaboration with MATO GROSSO Association (Perù) (2006-2010).
- **“SISDISC (Support to Improved Service Delivery in Somali Cities)”**, in collaboration with CESVI NGO (2008-2009).
- **“Limpopo Transfrontier Programme: Livelihood enhancement through transboundary natural resources in the Limpopo corridor”**, in collaboration with CESVI NGO (2009-2010).
- **“Social inclusion and environmental sustainability in Santa Rita, Paraiba (Brazil)”**, in collaboration with FonSippec (2010).
- **“Industrial wastewater treatment for toxicity control in southern Brazil”**, in collaboration with PROAMB (2010).
- **“Removal of fluoride from groundwater in Senegal”**, in collaboration with University of Dakar, University of Pavia and G. Tovini Foundation (2005-2010).
- **“Mechanical systems for biomass compaction and valorisation of new energetic resources at household level in Chad-Cameroon”**, in collaboration with ACRA, Milan (2008-2011).
- **“Planning for water and sanitation interventions in the areas of Petit-Goave and Grand-Goave (Haiti) after earthquake”**, in collaboration with CESVI, Bergamo (2010-2011).
- **“Capacity building on MSW management in Juba (South Sudan)”**, in collaboration with CESVI, Bergamo (2010-2012).
- **“Assessment of the medical waste management in Bangkok (Thailand)”**, in collaboration with Sandec/EAWAG, Swiss (2011).
- **“Solar thermal disinfection of drinking water using parabolic trough concentrator in Babonè, Cameroon”**, in collaboration with A.D.A. Onlus, (Brescia) and University of Dschang (Camerun) (2010-2012).
- **“Wastewater and gray-water management in Moscù district, Ciudad Guyana, Venezuela”**, in collaboration with SVI, Brescia (2010-2012).
- **“Use of natural resources for drinking water treatment in Ciad-Camerun”**, in collaboration with ACRA, Milan (2009-2013).
- **“Renewable fuels for domestic uses in Burundi”**, in collaboration with Comitato di Solidarietà di San Vigilio (no profit organization).
- **“Water Safety Plan (WSP) in rural communities in Senegal”** (2011)
- **“Experimentation of an improved stove powered by rice husk: implementation and adjustment of the local technology in Embu District, Kenya”**, in collaboration with the Col’or NGO, Orbassano (Turin).
- **“Assessment of the solid waste management in Gaza Strip (Palestine)”**, in collaboration with COOPI, Milan.
- **“Integrated Project “Water and Health” in the District of Garango, Burkina Faso”**, in collaboration with Medicus Mundi, Brescia.
- **“Improvement of drinking water quality in the region of Diourbel (Senegal)”**, in collaboration with G. Tovini Foundation, Brescia.
- **“Management of the medical waste in the Taraka district, Kenya”**, in collaboration with the Col’or NGO, Orbassano (Turin).
- **“Study of a decision-support tool for the valorisation of the organic matter from solid waste in Developing Countries”**, in collaboration with Sandec/EAWAG, Swiss.
- **“Study of the health and environmental risks related to the medical waste management in the**



Khan Younis hospital, Gaza Strip”, in collaboration with COOPI, Milan.

- “Support to native communities for the management of natural resources in regions of Madre de Dios and Pando (Peru e Bolivia)”, Municipality of Milan, Perù e Bolivia 2013-2014.
- “Integrated project WATER and HEALTH for the district of Garango, Burkina Faso”, in Medicus Mundi Italy, Brescia.
- “Contribution for the improvement of drinking water quality in the region of Diourbel (Senegal)”, Fondazione G. Tovini, Brescia.
- “Solid waste management analysis in Gaza Strip (Palestina)”, COOPI, Milan, Italy.
- “Management of health care wastes in Taraka district, Kenya”, Col’or , Orbassano, Italy.
- “Study of an improved stove using rice husk”, Associazione Nazionale Fumisti e Spazzacamini (ANFUS), Italy.
- “Development of a decision-based tool for the valorisation of the organic fraction of solid wastes in developing countries”, with Sandec.
- “Empowering conditions for good water governance – a financial and economically sustainable model in Vilanculo, Mozambico”, with Acque del Chiampo (Arzignano, VI) and Vilanculo Municipality (Mozambique).
- “Testing of an improved stove using rice husk: implementation and adaptation to the context of the district of Mwea, Kenya ”, with Col’or di Orbassano (TO).
- “Technical support for the composting in the city of Maxixe (Mozambique)” with CELIM (MI).
- “Clay as a building material and as a binder in alternative fuels in Madagascar” with Mais Onlus
- “Solid waste management in Zavidovici, Bosnia and Herzegovina”, in collaboration with ADL Zavidovici.
- “Treatment of greywater by phytoremediation in the school of Mathare in Nairobi, (Kenya)”, in collaboration with Live in Slums, (2016);
- “Accès à l’assainissement et aux bonnes pratiques d’hygiène dans la Commune de Bignona et Transgambienne, Sénégal”, in collaboration with ACRA (2016)
- “A Sustainable Supply Chain Of Sanitation. Market solutions as a response to the problems of access to basic sanitation facilities in the province of Maputo, Mozambique”, in collaboration with ACRA (2016)
- GRADUATION AWARD, for the best thesis of the year dealing with “Appropriate Technologies for environment management in Developing Countries” (Academic Years: 2001-2002, 2002-2003, 2003-2004, 2004-2005, 2005-2006, 2006-2007, 2007-2008, 2008-

2009, 2009-2010, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016).

ON-GOING ACTIVITIES

- “Reclamation of land and water contaminated by informal productive activities, Colombia”, in collaboration with ACVC (Asociación Campesina del Valle del rio Cimitarra), Colombia.
- “Management of the industrial wastewater treatment plants in Brazil”, in collaboration with PROAMB, Brazil.
- “Integrated environmental sanitation concepts for poor, underserved and peri-urban areas of Iringa Municipality”, Tanzania, in collaboration with ACRA
- “Enhancing environmental-sanitary conditions in Tulkarem through the support to waste collection and recycling and illegal dumpsite rehabilitation – Green Tulkarem” with CESVI
- “Monitoring of drinking water treated by ceramic filters”, with “Missouri University of Science and Technology”
- “Enhancing Employment Opportunities in Jordan Energy and Environment Sectors”, Istituto per la Cooperazione Universitaria – ICU.
- “Participação e novas oportunidades de desenvolvimento local: herança cultural e direitos ambientais”, Quelimane, Mozambique, in collaboration with CELIM.

PhD COURSE

- PhD PROGRAMME in “Appropriate methodologies and techniques in international development cooperation”, active since January 1st 2008.
 1. **V. Di Bella**, research theme: “Research of appropriate technologies for solid waste management in low-income countries and constraints to their effective implementation – case studies from Somaliland”, January 2008 – December 2010.
 2. **D. Palazzini**, research theme: “Testing of appropriate technologies for the improvement of water quality for drinking water in the rural community of Patar (Senegal)”, January 2008 – December 2010.
 3. **D. Giardina**, research theme: “A critical approach to post-emergency sanitation: considerations for sustainable interventions (Haiti)”, January 2009 - December 2011.
 4. **F. Vitali**, research theme: “Appropriate solutions for cooking energy at household level in the Logone



- Valley (Chad – Cameroun)”, January 2009 – December 2011.*
5. **R. Bigoni**, research theme: *“A parabolic trough solar pasteurizer for drinking water treatment in rural areas of developing countries”, January 2010 – December 2012.*
 6. **F. H. Gomez Tovar**, research theme: *“Integrated management of wastewater in the suburbs of Ciudad Guayana (Venezuela)”, January 2010 – December 2012.*
 7. **C. Zurbruegg**, research theme: *“Assessment method for waste management decision-support in Developing Countries”, January 2010 – December 2012.*
 8. **L. Rondi**, research theme: *“The Water Safety Plan approach: elaboration, implementation and evaluation in rural contexts of sub-Saharan Africa”, January 2011 – December 2013.*
 9. **M. M. G. Caniato**, research theme: *“Health-care waste management in areas with severe constraints: challenges, potentialities and approaches to improve an existing system at facility level”, January 2011 – December 2013.*
 10. **B. Coloru**, research theme: *“Sustainability of water supply service models: analysis and assessment of case studies in Tanzania and Senegal”, January 2011 – December 2013.*
 11. **Perteghella A.**, research theme: *“Appropriate technologies for the valorisation of the organic matter from solid waste in Developing Countries”, January 2012 – March 2015.*
 12. **Pollmann Gomez A.**, research theme: *“Assessment of water scarcity and protection of water resources in Vilankulo city, Mozambique”, January 2012 –2017.*
 13. **De Nardo F.**, research theme: *“Appropriate technologies for the production of organic fertilizer from organic residues in occupied Palestinian territories”, January 2013 –2017.*
 14. **Domini M.**, research theme: *“Planning approaches for the design of improved sanitation systems in low and middle income periurban contexts. The case study of Iringa, Tanzania. “January 2014 – march 2017.*
 15. **Zambetti F.**, research theme: *“Appropriate technologies for e-waste management in developing countries: steps towards the integration of recycling and reuse”, January 2014 – July 2017.*
 16. **Di Francesco L**, research theme: *Hg removal from gold-mine wastewater in a rural area of Colombia, since January 2014 – ongoing.*
 17. **Vidoni A.**, research theme: *Water supply management in rural areas of Burkina Faso, since January 2014 – ongoing.*
 18. **Gibellini S.**, research on solid waste management in Jordan, Novembre 2015 – ongoing.
 19. **Villa F.**, research on solid waste management in West Bank and Mozambique, November 2016 – ongoing.
 20. **Bop D.**, research on water treatment in Senegal, November 2016 – ongoing.

SEMINARS AND CONFERENCES

- *6th workshop of Sanitary-Environmental Engineering “Environment management in Developing Countries: waste recycling and appropriate technologies”, Faculty of Engineering - University of Brescia, May 7th 1999.*
- *1st CeTAmb Seminar: “Center of documentation and research on appropriate technologies for environmental management in developing countries: studies and researches proposals”, Faculty of Engineering - University of Brescia, December 21st 1999.*
- *2nd CeTAmb Seminar: “CeTAmb role in international cooperation: study and research activity”, Faculty of Engineering - University of Brescia, October 13th 2000.*
- *3rd CeTAmb Seminar: “Appropriate technologies for sustainable development”, Faculty of Engineering - University of Brescia, December 21st 2000.*
- *Conference: “International cooperation and united city : North and South for a unique future”, Faculty of Engineering - University of Brescia, March 17th 2001.*
- *4th CeTAmb Seminar: “School and cooperation for a sustainable development”, Faculty of Engineering - University of Brescia, October 11th 2001.*
- *5th CeTAmb Seminar: “Water: a resource for our life”, Faculty of Engineering - University of Brescia, December 20th 2001.*
- *CeTAmb Workshop: “Projects developed by FEPP in Ecuador”, Faculty of Engineering - University of Brescia, March 11th 2002.*
- *International Conference: “Appropriate technologies for cooperation and sustainable development: the role of university”, Faculty of Engineering - University of Brescia, May 24th 2002.*
- *CeTAmb Workshop: “Technologies for sustainable development: research and projects in Developing Countries”, June 11th 2002, Fondazione Micheletti, Brescia.*
- *6th CeTAmb Seminar: “CeTAmb: experiences for sustainable development”, October 10th 2002, Faculty of Engineering - University of Brescia.*
- **MU&AP REVAMPING** (November 14-17th 2002, in Montichiari, Brescia):
- **CeTAmb exposition on “Appropriate technologies for Developing Countries”** (mechanic and energy technologies for agriculture);



- Seminar on **“Appropriate Technologies in Developing Countries: an opportunity of collaboration between school and enterprises”**, November 16th.
- 7th CeTAMb Seminar: **“Towards a sustainable development”**, Faculty of Engineering - University of Brescia, December 19th 2002.
- CeTAMb Workshop: **“Building in Developing Countries: the case of a centre for children assistance in Port de Paix, Haiti”**, Faculty of Engineering - University of Brescia, March 26th 2003.
- CeTAMb Workshop: **“Plastic waste recycling in Developing Countries: the case of Senegal”**, Faculty of Engineering - University of Brescia, May 30th 2003.
- CeTAMb Workshop: **“Solid waste management in developing countries: CeTAMb experiences”**, Faculty of Engineering - University of Brescia, June 11th 2003.
- CeTAMb Workshop: **“Technical and environmental issues of electromagnetic pollution”**, Faculty of Engineering - University of Brescia, July 2nd 2003.
- MU&AP REVAMPING (November 8-10th 2003, in Montichiari, Brescia):
CeTAMb exhibition on **“Appropriate technologies for Developing Countries”** (mechanic and energy technologies for agriculture);
- Conference on **“Appropriate Technologies in Developing Countries: an opportunity for enterprises”**.
- CeTAMb Workshop: **“Feasibility study for the valorization of a thermal resource in Chivay (Peru)”**, Faculty of Engineering - University of Brescia, December 9th 2003.
- 8th CeTAMb Seminar: **“Small interventions and big problems of globalized world: CeTAMb proposal in our reality”**, Faculty of Engineering - University of Brescia, December 18th 2003.
- CeTAMb Seminar: **“CeTAMb presentation and mechanical projects”**, Moretto Highschool, February 6th 2004.
- CeTAMb Seminar: **“Sanitary and environmental analysis of Caia district (Mozambique) and proposal of sustainable development”**, Faculty of Engineering - University of Brescia, February 18th 2004.
- CeTAMb Seminar: **“Lack of natural resources, environmental degradation and conflicts: a model based on GIS. The case of Kenya”**, Dr. Stefano Disperati, Faculty of Engineering - University of Brescia, March 30th 2004.
- CeTAMb Seminar: **“Non tutto il mondo è paese”**, Faculty of Engineering - University of Brescia, June 4th 2004 (in cooperation with Fondazione Tovini).
- CeTAMb Seminar: **“Water for life: water supply in some rural villages of Kolkata region”**, Palazzo Todeschini, Desenzano del Garda (BS), May 19th 2004.
- CeTAMb Workshop: **“Water: a new strategic resource and an old instrument of power in Developing Countries”**, Dr. Beatrice Marelli, Faculty of Engineering - University of Brescia, June 8th 2004.
- CeTAMb Workshop: **“Wastewater treatment and reuse in agriculture”**, Faculty of Engineering - University of Brescia, June 21st 2004.
- CeTAMb Seminar: **“Traitement des effluents industrielles par des membranes minerales d'argile a filtration tangentielle et par des materiaux locaux”**, Prof. Messaudi (University Meknès, Morocco), Faculty of Engineering - University of Brescia, July 2nd 2004.
- MU&AP REVAMPING, September 17th/19th 2004, at Piacenza Expo Exhibition Center.
- International Conference: **“Social sustainability of environmental technologies in Developing Countries”**, Palazzo Todeschini, Desenzano del Garda (BS), October 21st 2004.
- 9th CeTAMb Seminar: **“Sustainability of cooperation projects in Developing Countries: collaboration with secondary schools”** Faculty of Engineering - University of Brescia, December 15th 2004.
- CeTAMb Seminar: **“Development and appropriate technologies in Developing Countries”**, Dr. Christian Zurbruegg (SANDEC - Swiss), Lunardi Technical Highschool - Brescia, April 21st 2005.
- CeTAMb Seminar: **“Appropriate technologies and Sandec activities: research and projects”**, Dr. Christian Zurbruegg (SANDEC - Swiss), Faculty of Engineering - University of Brescia, April 21st 2005.
- CeTAMb Seminar: **“Environment protection and urban solid waste management: an inter-community approach”**, Zavidovici (Bosnia and Herzegovina), April 29th 2005.
- CeTAMb Seminar: **“Urban solid waste management in Chimaltenango (Guatemala): technical and economical aspects”**, Fondazione G. Piccini, Calvagese della Riviera., July 14th 2005.
- International Conference: **“The role of Appropriate Technologies in cooperation projects”**, Palazzo Todeschini, Desenzano del Garda, December 16th 2005.
- Course on **“Appropriate technologies for environment management in Developing Countries”**, Casa S. Filippo, Brescia, July 5/6th 2006.
- CeTAMb Seminar: **“Urban solid waste management in Zavidovici: cooperation activities for environmental sustainability”**, Zavidovici (Bosnia and Herzegovina), October 27th 2006.
- International Conference: **“University and international cooperation: collaboration with institutions and opportunities for young people”**,



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Palazzo Todeschini, Desenzano del Garda,
December 21st 2006.

- *CeTAmb Seminar: "Adobe brickwork"*, Prof. Roberto Mattone (Politecnico di Torino), University of Brescia, March 13th 2007.
- *CeTAmb Seminar: "Design aspects for the implementation of a UASB reactor in Africa"*, Eng. Andrea Sandri (University of Trento), Faculty of Engineering - University of Brescia, March 21st 2007.
- *CeTAmb Seminar: "Environmental engineering in Developing Countries"*, Prof. Eli Dahi (International Organising Committee for Fluorosis Prevention and Defluoridation of Water), Faculty of Engineering - University of Brescia, March 28th 2007.
- *CeTAmb Seminar: "Defluoridation in Kenya: research and projects implementation"*, Eng. Kim Mueller (SANDEC, Zurich), Faculty of Engineering - University of Brescia, March 28th 2007.
- *CeTAmb Seminar: "University and international cooperation: opportunities for young people"*, University of Pavia, November 7th 2007.
- *Course on "Appropriate technologies for environment management in Developing Countries: solid waste collection, treatment and disposal of"*, Casa S. Filippo, Brescia, July 12th-13th 2007.
- *International Conference: "Research and application of appropriate sanitary and environmental technologies in Low Income Countries"*, Faculty of Engineering - University of Brescia, December 20th 2007.
- *CeTAmb Seminar: "Bioenergy: a tool for social transformation in Low Income Countries"*, Marco Roberto Bertoli, Faculty of Engineering - University of Brescia, February 28th 2008.
- *CeTAmb Seminar: "Technical proposals for the protection of Pojuca river water quality (Brasil)"*, Eng. Veronica Di Bella, Faculty of Engineering, Brescia, March 12th 2008.
- *CeTAmb Seminar: "Environmental services in Zavidovici (Bosnia and Herzegovina)"*, Eng. Francesco Vitali, Faculty of Engineering, Brescia, March 13th 2008.
- *CeTAmb Seminar: "Technical actions for the improvement of solid waste management in Somaliland"*, Dr. Diletta Galvanin, Faculty of Engineering, Brescia, March 13th 2008.
- *CeTAmb Seminar: "Socio-anthropologic issue and international cooperation"*, Prof. Anna Casella, Faculty of Engineering, Brescia, March 13th 2008.
- *CeTAmb Seminar: "Geopolitics - two case of study: Sudan and Ivory Coast"*, Claudio Zaninotto, Faculty of Engineering, Brescia, April 3rd 2008.
- *CeTAmb Seminar: "International law and cooperation"*, Dr. Ginevra Bajno, Faculty of Engineering, Brescia, April 10th 2008.
- *CeTAmb Seminar: "Ethnography of development"*, Prof. Anna Casella, Faculty of Engineering, Brescia, April 15th 2008.
- *CeTAmb Seminar: "Ethnography of development: religion and symbolism in sanitary context"*, Prof. Anna Casella, Faculty of Engineering, Brescia, May 7th 2008.
- *CeTAmb Seminar: "Sources and subjects of International Law,"* Dr. Ginevra Bajno, Faculty of Engineering, Brescia, May 15th 2008.
- *CeTAmb Seminar: "Millenium Development Goals: role of rural water supply and sanitation in Asia"*, Prof. C. Visvanathan, Faculty of Engineering, June 11th 2008.
- *CeTAmb Seminar: " Solid Waste Management in Asia and the Pacific: Current practices and the shift towards 3R "*, Prof. C. Visvanathan, Faculty of Engineering, June 12th 2008.
- *Course on "Drinking water in Developing Countries: appropriate technologies for treatment and supply"*, Faculty of Engineering, Brescia, July 10-11th 2008.
- *CeTAmb Seminar: "Innovations bringing safe drinking water to 1 billion people at the bottom of the pyramid"*, Prof. Susan Murcott, Faculty of Engineering, Brescia, September 23rd 2008.
- *CeTAmb Seminar: "History of International cooperation"*, Dr. Agostino Mantovani, Faculty of Engineering, Brescia, September 25th 2008.
- *International Conference: "International cooperation projects: collaboration between NGOs, research centres and local partners"*, Faculty of Engineering, Brescia, December 18th 2008.
- *CeTAmb Seminar: "Inclusion and vulnerability in the sanitation sector - challenges and solutions"*, Prof. Bob Reed, Faculty of Engineering, Brescia, January 20th 2009.
- *CeTAmb Seminar: "Failure of Kosi Dam (Nepal): review of the emergency response"*, Prof. Bob Reed, Faculty of Engineering, Brescia, January 20th 2009.
- *CeTAmb Seminar: "Ethics in research activities in Developing Countries"*, Prof. Jacques Simportè, Faculty of Medicine, University of Brescia, February 23rd 2009.
- *CeTAmb Seminar: "Projects and processes of development cooperation: an anthropological analysis"*, Prof. Anna Casella, Faculty of Engineering, Brescia, March 18th 2009.
- *CeTAmb Seminar: "Rights protection in international law"*, Dr. Ginevra Bajno, Faculty of Engineering, Brescia, March 24th 2009.
- *CeTAmb Seminar: "Human rights and international economic law"*, Dr. Ginevra Bajno, Facoltà di Ingegneria, April 20th 2009.
- *CeTAmb Seminar: "The case of a rural hospital in Africa: environmental survey"*, Virginio Pietra and



Fausta Prandini, Faculty of Engineering, Brescia,
April 23rd 2009.

- *CeTAmb Seminar: "Social structure and symbolic relations in development processes"*, Prof. Anna Casella, Faculty of Engineering, Brescia, April 28th 2009.
- *CeTAmb Seminar: "Methodology and views in water sector"*, Prof. Giorgio Cancelliere, Faculty of Engineering, Brescia, May 15th 2009.
- *CeTAmb Seminar: "Development, environment and civil society: eco-anthropological issues"*, Prof. Anna Casella, Faculty of Engineering, May 20th 2009.
- *CeTAmb Seminar: "International environmental law and sustainable development"*, Dr. Mara Chilosi, Faculty of Engineering, Brescia, June 5th 2009.
- *Course on "Wastewater management in Developing Countries: technical and health related aspects"*, Faculty of Engineering, Brescia, July 14th/16th 2009.
- *Cycle of seminars on "Water and Sanitation in Developing Countries and its effects on human health"*, Prof. Thomas Clasen, Faculty of Engineering, Brescia, 28th September – 2nd October 2009.
- *Cycle of seminars on "Water and Sanitation in Low Income Countries"*, Prof. Brian Reed, Faculty of Engineering, Brescia, 23rd/26th November 2009.
- *International Conference: "Appropriate technologies in international development cooperation: the role in the past and the perspectives in the future"*, Faculty of Engineering, Brescia, December 18th 2009.
- *CeTAmb Seminar: "Experiences in renewable energies in Guatemala"*, Carlo Salvinelli, Faculty of Engineering, Brescia, April 27th 2010.
- *CeTAmb Seminar: "Victims of international rights violations and their"*, Dr. Ginevra Bajno, Faculty of Engineering, Brescia, May 13th 2010.
- *CeTAmb Seminar: "Assessment methods for waste management decision - support in Developing Countries - work in progress"*, Prof. Christian Zurbruegg, Faculty of Engineering, Brescia, May 21st 2010.
- *Cycle of seminars on "Environmental Health and wastewater reuse in developing countries,"* Prof. Jeroen Ensink, Faculty of Engineering, Brescia, May 24th/28th 2010.
- *CeTAmb Seminar: "Sustainable Development and development indicators"*, Dr. Antonella Pietta, Faculty of Engineering, Brescia, June 9th 2010.
- *CeTAmb Seminar: "International law and sustainable development"*, Dr. Mara Chilosi, Faculty of Engineering, Brescia, June 10th 2010.
- *CeTAmb Seminar: "Financing cooperation projects: how to complete a proposal"*, Dr. Massimo Chiappa, Faculty of Engineering, Brescia, June 21st and 24th 2010.
- *CeTAmb Seminar: "Anthropology of development: issues and prospects"*, Prof. Anna Casella, Faculty of Engineering, Brescia, June 22nd 2010.
- *CeTAmb Seminar: "Intercultural dialogue in development projects"*, Dr. Isa Gama, Faculty of Engineering, Brescia, June 29th 2010.
- *CeTAmb Seminar: "Evaluating development interventions: participatory anthropology"*, Dr. Isa Gama, Faculty of Engineering, Brescia, July 6th 2010.
- *Course on "Energy in countries with limited resources: appropriate technology for energy recovery from biomass and organic waste"*, Faculty of Engineering, Brescia, July 8th/9th 2010.
- *CeTAmb Seminar: "Common heritage and environmental sustainability"*, Dr. Beatrice Marelli, Faculty of Engineering, Brescia, July 15th 2010.
- *Cycle of seminars on "Key issues and approaches in Solid Waste Management in Developing Countries"*, Prof. Mansoor Ali, Faculty of Engineering, Brescia, September 13th/17th 2010.
- *CeTAmb Seminar: "World Bank and European Union programs in water&sanitation. EU fund – ACP States for water and energy fund: guiding principles and call for proposal practice"*, Dr. F. C. Calise, Faculty of Engineering, Brescia, October 11th 2010.
- *Cycle of seminars on "Energy access for the pours in Developing Countries: opportunities and challenges"*, Prof. Theodor Sanchez, Faculty of Engineering, Brescia, November 2nd/5th 2010.
- *International Conference: "Development of local resources in cooperation projects with DCs"*, Faculty of Engineering, Brescia, December 17th 2010.
- *CeTAmb Seminar: "Impact of cooperation projects on the social-political system of DCs communities"*, Prof. Anna Casella, Faculty of Engineering, Brescia, February 16th 2011.
- *CeTAmb Seminar: "Impact of cooperation projects on the environmental system"*, Prof. Anna Casella, Faculty of Engineering, Brescia, March 29th 2011.
- *CeTAmb Seminar: "Social and health issues (prevention and care)"*, Prof. Mara Mabilia, Faculty of Engineering, Brescia, April 5th 2011.
- *Cycle of seminars on "New approaches for waste management"*, Prof. Paul Brunner, Faculty of Engineering, Brescia, April 7th/8th 2011.
- *CeTAmb Seminar: "Environmental accounting system based on Ecological Footprint"*, Dr. Antonella Pietta, Faculty of Economy, Brescia, April 18th 2011.
- *CeTAmb Seminar: "Environmental accounting system based on Ecological Footprint: environment-economy relations"*, Dr. Antonella Pietta, Faculty of Economy, Brescia, April 20th 2011.



- *CeTAmb Seminar: "Environmental Kuznets Curves"*, Dr. Antonella Pietta, Faculty of Economy, Brescia, April 27th 2011.
- *CeTAmb Seminar: "Socio economic analysis of roma informal waste collection in Zavidovici"*, Dr. Veronica Forin, Faculty of Engineering, Brescia, May 9th 2011.
- *CeTAmb Seminar: "Pedagogical and interactive methods in the relationship with the communities involved in cooperation projects"*, Prof. Anna Casella, Faculty of Engineering, Brescia, May 23rd 2011.
- *Summer School: "Appropriate technologies for environmental management in Developing Countries"*, Faculty of Engineering, Brescia, 20th/24th June 2011.
- *CeTAmb Seminar: "Carbon Market Approach"*, Faculty of Engineering, Brescia, 27th June 2011.
- *CeTAmb Seminar: "The psychosocial approach to cooperation interventions"*, Dr. Elisa Bonizzoni and Ariela Pagani, Faculty of Engineering, Brescia, 1st July 2011.
- *CeTAmb Seminar: "Elements of human rights and main systems of regional tutelage"*, Dr. Eva Lo Iacono (Capramagra Association), Faculty of Engineering, Brescia, 19th July 2011.
- *CeTAmb Seminar: "Codevelopment: migratory phenomena and International cooperation"*, Dr. Francesco Marini (Capramagra Association), Faculty of Engineering, Brescia, 20th July 2011.
- *CeTAmb Seminar: "Research and cooperation experiences related to improved stoves implementation"*, Dr. Dale Andreatta and Dr. Christa Roth, Faculty of Engineering, Brescia, 8th September 2011.
- *Cycle of seminars: "Energy, development and sustainability in Developing Countries"*, Prof. August Schläpfer, Faculty of Engineering, Brescia, 26th/30th September 2011.
- *CeTAmb Conference: "Appropriate technologies for the environment management in Low Income Countries"*, Ecomondo Fair, Rimini, 10th November 2011.
- *International Conference: "Young constructors of a sustainable world: appropriate technologies and international volunteers"*, Faculty of Engineering, Brescia, 16th December 2011.
- *CeTAmb Seminar: "Water challenges and opportunities in Burkina Faso"*, Dott. Frank Lalanne, Faculty of Engineering, Brescia, 19th December 2011.
- *Cycle of seminars on "Anthropology of development"*, Prof. Anna Casella Paltrinieri, Faculty of Engineering, Brescia, April-May 2012.
- *Cycle of seminars on "Elements of human rights and international law"*, Dr. Ginevra Bajno, Faculty of Engineering, Brescia, May-June 2012.
- *CeTAmb seminar "The Logical Framework Analysis to plan cooperation interventions"*, Eng. Giacomo Agosti, Faculty of Engineering, Brescia, 23rd May 2012.
- *CeTAmb seminar "Microfinance and economic development: research and action borders and the case of catastrophic risks"*, Prof. Laura Viganò, Faculty of Engineering, Brescia, 12th June 2012.
- *CeTAmb seminar "Assessment methods of development projects"*, Dr. Davide Castellani, Faculty of Engineering, Brescia, 14th June 2012.
- *Summer School "Monitoring and evaluation methodologies applied to environmental resources in developing countries"*, Faculty of Engineering, Brescia, 2nd-6th July 2012.
- *CeTAmb seminar "Drinking water treatment using solar energy"*, Prof. Edgar Castillo, Faculty of Engineering, Brescia, 9th July 2012.
- *CeTAmb Conference: "Appropriate technologies for the environment in Low Income Countries"*, Ecomondo Fair, Rimini, 8th November 2012.
- *International Conference "Research and development cooperation: which synergies?"*, Faculty of Engineering, Brescia, 21st December 2012.
- *Cycle of seminars on "Anthropology of development"*, Prof. Anna Casella Paltrinieri, Faculty of Engineering, Brescia, March-May 2013.
- *Cycle of seminars on "Elements of human rights and international law"*, Dr. Ginevra Bajno, Faculty of Engineering, Brescia, April-June 2013.
- *CeTAmb seminar "Assessment methods of cooperation projects: from the identification to the final evaluation"*, with the support of FOCSIV and GITISA, Faculty of Engineering, Brescia, 3rd June 2013.
- *CeTAmb seminar "History and development of the Italian regulations on development cooperation"*, Prof. Giulio Maternini, Faculty of Engineering, Brescia, 4th June 2013.
- *CeTAmb seminar "Access to funding for international cooperation programs"*, dott. Massimo Chiappa, DICATAM, Brescia, 16th June 2013.
- *CeTAmb seminar "The environmental international law and sustainable development"*, adv. Mara Chilosi, DICATAM, Brescia, 26th June 2013.
- *Summer School: "The Project Cycle Management (PCM) in Development Cooperation. A focus on water and sanitation"*, Faculty of Engineering, Brescia, 1/5th July 2013.
- *Session "Sustainability of appropriate technologies for the environment in developing countries"*, during the III meetings of CUCS, Turin, 20th September 2013.



- *Cycle of seminars* on "**Managing waste from medical facilities**", prof. Terry Tudor, DICATAM, Brescia, December 2013.
- *CeTAmb LAB seminar* " **Sustainability of environmental projects of development cooperation** ", Faculty of Engineering, Brescia, 20th December 2013.
- *Cycle of seminars* on "**World of Waste - research, reflection and realism**", prof. Philip Rushbrook, Head, Implementation Team, UK Government, Brescia, 13-15th January 2014.
- *Cycle of seminars* on "**Appropriate solutions for metals removal in drinking water**", prof. Branislav Petruševski, UNESCO-IHE, The Netherlands, Brescia, 06-07th February 2014.
- *CeTAmb LAB seminar* " **Anthropological approach to development cooperation: the concept of culture and the culture of cooperation** ", prof. Anna Casella Paltrinieri, Faculty of Engineering, Brescia, 25th February 2014.
- *Cycle of seminars* on "**Developing aggregated indicators to measure water poverty**", prof. Agustí Pérez Foguet (Institute for Sustainability) and Ricard Giné Garriga (Universitat Politècnica de Catalunya), Brescia, 07-08 April 2014.
- *Seminario CeTAmb* "**Elements of human rights and international law**" avv. Mara Chilosi, Brescia, 6 May 2014.
- *Cycle of seminars* on "**Elements of human rights and international law**", avv. Ginevra Bajno, Brescia, May-July 2014.
- *Ciclo di seminari sul tema* "**Recycling and Value Chains: appropriate strategies for low/middle-income countries**", dott. Anne Scheinberg (Waste, the Netherlands), Brescia, 12-14 May 2014.
- *IV international Summer School*: "**Appropriate technologies for the valorisation of resources in the sanitation sector in developing countries**", Brescia, 30th June – 4th July 2014.
- *Seminar on* "**HHWTSS (HouseHold Water Treatment and Safe Storage)**", dr. Marina Peter, Brescia 18^h December 2014
- *CeTAmb LAB Conference* "**From MDGs to SDGs – The environmental safeguard in the international cooperation** ", Università degli Studi di Brescia, 19th December 2014.
- *Cycle of seminars* on "**Anthropology of development**" prof.ssa Anna Casella Paltrinieri, Brescia, February - March 2015.
- *Cycle of seminars* on "**Elements of human rights and international law**", avv. Ginevra Bajno, Brescia, March - October 2015.
- *Cycle of seminars* on "**Solid waste management**", Prof. Terry Tudor, Brescia, June - July 2015
- *V international Summer School*: "**Water, sanitation and waste management in humanitarian crises: appropriate technologies and planning towards development**", Brescia, 29th June – 3rd July 2015.
- *IV Congresso CUCS* - "**Strengthen the human resources in low-income countries – Health and wealth by the year 2030**", Brescia, 10-12th September 2015
- *Cycle of seminars* and technical visits on "**Recovery of energy and material from wastes**" Fondazione PROAMB (Fundação Bentogonçalvense PROAMBiente) di Bentogonçaves (Brasile) at **University of Brescia**, 2-6th November 2015.
- *Seminar on* "**Water management in emergency conditions: appropriate solutions towards development in resource-limited countries**", Rimini fiera Ecomondo, 4th November 2015
- *CeTAmb LAB Conference* "**Emergencies and development. The safeguard of the environment in the international cooperation**", Università degli Studi di Brescia, 1th December 2015.
- *Cycle of seminars* on "**Water Safety Plan and Sanitation Safety Plan**", Prof. John Fawell, Brescia, 18-19th January 2016
- *VI international Summer School*: "**Resource Recovery from water and waste: appropriate Solutions in Low and Middle Income Countries**", Brescia, 4-8 July 2016.
- *Cycle of seminars* on "**Anthropology of development**" prof.ssa Anna Casella Paltrinieri, Brescia, March – May 2016.
- *Cycle of seminars* on "**Elements of human rights and international law**", avv. Ginevra Bajno, Brescia, April – Jul 2016
- *Cycle of seminars* on "**WASTE MANAGEMENT**", Prof. Bojian Batinic, Brescia, 12-14 December 2016
- *Ciclo di 2 seminari sul tema* "**Eco-health and risk assessment approaches for low and middle income countries**", Prof. Gueladio Cissé, Brescia, 21th December 2016
- *CeTAmb LAB Conference* "**Health and environment: the role of international cooperation**", Università degli Studi di Brescia, 20th December 2016.
- *Cycle of seminars* on "**Anthropology of development**" prof.ssa Anna Casella Paltrinieri, Brescia, March – May 2017.
- *Cycle of seminars* on "**Elements of human rights and international law**", avv. Ginevra Bajno, Brescia, April – Jul 2017.
- *Cycle of seminars* on "**Solid waste management**", Prof. T. Tudor, Brescia, 21 and 28 June 2017
- *VII International Summer School*: "**Managing environmental and health risks: the impacts of water and waste treatment technologies in low and middle income countries**", Faculty of Engineering, Brescia, 3rd/7th July 2017.



AGREEMENTS

- University Cheikh Anta Diop, Faculty of Science and Technology, Department of Chemistry, Dakar (Senegal), Convention for research and teaching, since 2004.
- EAWAG/SANDEC (Duebendorf, Switzerland), Convention for research and teaching, since 2005.
- University of Milan and University of Pavia (Italy), convention for the institution of an inter-university center for development cooperation in agriculture and environment, since 2005.
- Technical high school IPC "Golgi" (Brescia, Italy) and "ADL Zavidovici Association (Bosnia and Herzegovina)", Convention for research and teaching, since 2005.
- Mahidol University, Faculty of Tropical Medicine, Bangkok (Thailand), Convention for research and teaching, since 2006.
- Technical high school ITIS "Castelli" (Brescia, Italy), since 2006.
- Municipality of Zavidovici and JKP Radnik (Bosnia and Herzegovina), Convention for research and teaching, since 2006.
- UNA consortium (Milan), Collaboration agreement for SUDP programme "SUDP - Somalia Urban Development Programme", since 2006.
- Universidade de Caxias do Sul (Brazil) and Fundação Bentogonçalvense Pró-ambiente - PROAMB (Brazil), Convention for research and teaching, since 2007.
- "Cameroonian Students' Union - Brescia" Association - CAMSTU (Brescia, Italy) Convention for research and teaching and for the project "A well for Cameroon", since 2008 - 2013.
- CESVI Bergamo Convention for research and teaching, since 2008.
- ACRA Milan, collaboration agreement for the project "Gestion participative des Ressources Naturelles et de Promotion des Activités Génératrices Revenu Dans a Processus de Développement Local au Tchad", since 2008.
- ACRA Milan, collaboration agreement for the project "Gestion participative des ressources forestières et promotion d'initiatives économiques éco-compatibles dans la Vallée du Logone", since 2008.
- CESVI Bergamo, collaboration agreement for the project "SISDISC - Support to Improved Service Delivery in Somali Cities", since 2008.
- Partnership agreement with NGOs located in the province of Brescia and Brescia city (Italy), since 2008.
- CESVI Bergamo, collaboration agreement for the project "Limpopo Transfrontier Programme: Livelihood enhancement through Transboundary Natural Resources in the Limpopo corridor", since 2009.
- Technical high school IPC "Golgi" (Brescia, Italy), Convention for research in "Development of alternative energy in Developing Countries", since 2009.
- SVI Brescia, collaboration agreement for the project "Training, sharing, changing. Community Organization, environmental and production work in the district of Moscú - in the district Sol - Ciudad Guayana - Venezuela", since 2010.
- ACRA Milan, collaboration agreement for the project "Recherche appliquée pour la valorisation et la transformation des ressources naturelles dans un processus de lutte contre la pauvre au Tchad et Cameroun", since 2010.
- A.D.A. Onlus Brescia, collaboration agreement for the project "Solar thermal disinfection of drinking water using parabolic trough concentrator", since 2010.
- University of Dschang, Department of Agriculture and Biomedical Science, Dschang (Cameroon), collaboration agreement for the projet "Solar thermal disinfection of drinking water using parabolic trough concentrator", since 2010.
- Technical high school IPC "Golgi" (Brescia, Italy), Convention for research in "Solar thermal disinfection of drinking water using parabolic trough concentrator", since 2010.
- Technical high school ITIS "Galilei" (Ostiglia, Italy), Convention for research in "Solar thermal disinfection of drinking water using parabolic trough concentrator", since 2010.
- CESVI Bergamo, collaboration agreement for the project "Environmental Protection and Sustainable Development: Building Local Capacities on solid waste management in South Sudan", since 2010.
- COOPI Milano, collaboration agreement for the project "Support to vulnerable households affected by limited livelihood opportunities in West Bank and Gaza Strip - Occupied Palestinian Territories", since 2011.
- Fondazione PROAMB (Brazil), collaboration agreement for the project "Management of industrial wastewater treatment plants", since 2012.
- Agreement with the peasant association of the valley of Cimitarra river - ACVC (Colombia), collaboration agreement for research and educational activities, since 2012.
- COOPI Milan, collaboration agreement for the project "Identification and support to management practices of hazardous medical waste in the hospital in Khan Younis, Gaza Strip", since 2012 to Feb 2013



- Collaboration agreement with the NGO Celim Milan, since 2013
- Collaboration agreement with the University of N'Djamena (Ciad), Faculté des sciences exactes et appliquées, since 2013 (under approval)
- Collaboration agreement with the University of Ngaoundéré (Camerun), National College Of Agro-Industrial Sciences (ENSAI), since 2013 (under approval)
- Collaboration agreement with the NGO Col'or Camminiamo Oltre l'Orizzonte, Orbassano (TO), from 2012 to 2017
- Institutional collaboration agreement with the Interdepartmental Research Centre 'CENTRO DI RICERCA SULLE ACQUE', University of Pavia, from 2011 to 2016.
- ACRA, Collaboration agreement for the project "A Sustainable Supply Chain Of Sanitation. Market solutions as a response to the problems of access to basic sanitation facilities in the province of Maputo, Mozambique", 2014 to 2017
- ACRA, Collaboration agreement for the projet "Accès à l'assainissement et aux bonnes pratiques d'hygiène dans la Commune de Bignona et Transgambienne, Sénégal", 2014 to 2018
- ACRA, Collaboration agreement for the project "Integrated environmental sanitation concepts for poor, underserved and peri-urban areas of Iringa Municipality", 2014 to 2019
- CESVI, Collaboration agreement for the project "Improvement of environmental conditions in Tulkarem through the support to the collection and recycling of wastes and rehabilitation of informal landfills - Green Tulkarem ", 2014 to 2017
- Collaboration agreement with the Universidade Eduardo Mondlane -ESUDER (Mozambique), 2015 to 2020
- Institutional collaboration agreement with Missouri University of Science and Technology (USA), dal 2015 to 2020
- Collaboration agreement with Fundação PROAMB (Brasile), 2015 to 2020
- technologies for developing countries", Istanbul, July, vol. 3, pp.1943-1950.
- Collivignarelli C., Sorlini S. (2002): "Energy recovery from agricultural residues". Proceedings of 2002 ISWA World Environment Congress and the Exhibition "Appropriate Environmental and Solid Waste Management Technologies for Developing Countries". Istanbul, Turkey, 8th-12th July, Vol. 2, pp. 1211-1218.
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- Collivignarelli C., Prandini F., Sorlini S., Vaccari M. (2005): "Current MSW management and perspectives in Bosnia-Herzegovina, Sanegal and Guatemala: research activities by CeTamb center (Brescia)". Proceedings Sardinia 2005, 10th International Waste Management and Landfill Symposium, S. Margherita di Pula (CA), 3rd-7th October.
- Collivignarelli C., Bertanza G., Prandini F., Sorlini S., Vaccari M. (2005): "CeTamb's experience on water monitoring and treatment in developing Countries". Proceedings of Agua 2005, Cali, Colombia, 31st October - 4th November.
- Collivignarelli C., Vaccari M. (2006): "Analysis of drinking water treatment alternatives for the 2004 tsunami affected area of Thailand" Proceedings of the "VIII SIBESA Simposio Italo Brasileiro de Engenharia Sanitária e Ambiental", Fortaleza - CE, Brazil, 17th-22nd September, I-122, pp. 1-6.
- Collivignarelli C., Vaccari M. (2006): "Alternatives for the improvement of the MSW management in Zavidovici (Bosnia-Herzegovina)" in Proceedings of DepoTech 2006 Conference "Abfall- und Deponietechnik, Abfallwirtschaft, Altlasten", Leoben (Austria), 22nd-24th November, pp. 81-84.
- Collivignarelli C., Bertanza G., Prandini F., Sorlini S. (2006): "CeTamb's experiences: drinking water management in India and wastewater treatments for agricultural applications in Senegal". 5th World

PROCEEDINGS OF INTERNATIONAL CONFERENCES

- Bertanza G., Pedrazzani R., Collivignarelli C., Baldelli A., Manca N., Gelmi M., Ravizzola G., Bresciani L., Gandellini L. (2002): "Reuse of wastewater in agriculture: engineering, agronomic and sanitary aspects". Proceedings of the ISWA International Conference "Appropriate environmental and solid waste management and



Wide Workshop for Young Environmental Scientists (WWW-YES), Paris, 9th-12th May.

- Collivignarelli C., Mazzù A., Sorlini S. (2007): **“Appropriate technologies for energy recovery from biomass in Africa”**. Proceedings of Sardinia 2007, Eleventh International Waste Management and Landfill Symposium, S. Margherita di Pula, Cagliari, 1st-5th October, pp. 299-300.
- Collivignarelli C., Sorlini S., Prandini F. (2007): **“Drinking quality monitoring and treatment in some rural villages in the south of Kolkata: focus on arsenic”**. METEAU (Metal and related substance in drinking water) International Conference Antalya, Turkey, 24th-26th October. COST Action 637, pp. 159-168.
- Collivignarelli C., Di Bella V., Vaccari M. (2009): **“Research, Design And Implementation Of Sustainable Technologies For Municipal Solid Waste Management In An East African City: The Case Of Hargeisa, Somaliland”**, in Proceeding of the ISWA-APESB Lisbon 2009 “Turning waste into ideas”, Lisbon, 12th-15th October.
- Collivignarelli C., Di Bella V., Vaccari M. (2009): **“Problems in the implementation of a collection system for sorted waste in bosnian small cities: a case study”**, in Proceeding of the ISWA-Beacon 2009 “Strategic waste management planning in South Eastern European, Middle East and Mediterranean Region”, Novi Sad (Serbia), 10th-12th December.
- V. Di Bella, M. Vaccari, C. Collivignarelli (2010): **“Study and implementation of appropriate technologies for municipal solid waste landfilling in Somaliland”**, 1st International Conference on Final Sinks “From Sanitary to Sustainable Landfilling - why, how, and when?”, 23rd-25th September, Vienna, Austria, ISBN 978-3-85234-115-6.
- C. Collivignarelli, A. Mazzù, M. Vaccari, F. Vitali (2010): **“Comparison of biomass stoves as appropriate technologies for household energy in developing countries”**, Venice 2010, 3rd International symposium on energy from biomass and waste, 8th-11th November, Fondazione Cini, Venezia, Cisa Editore, ISBN 978-88-6265-008-3.
- Sorlini S., M.C. Collivignarelli, A. Brandalise, R. Bigoni (2011): **“Environmental effects of industrial wastewater toxicity”**, Proceeding of “Environmental Health 2011 - Resetting our priorities” Oxford Abstracts, 6th-9th February 2011, Salvador (Brazil).
- C. Collivignarelli, V. Di Bella, M. Vaccari (2011): **“Generation and composition of household waste in a South Sudanese city: updated data from Juba”**, Proceeding of the “WasteSafe 2011 - 2nd International Conference on Solid Waste Management in Developing Countries”, 13th-15th February 2011, Khulna, Bangladesh.
- C. Collivignarelli, V. Di Bella, M. Vaccari (2011): **“Experiences of design and implementation of solid waste transfer stations in Hargeisa, Somaliland: successes and constraints”**, Proceeding of the “WasteSafe 2011 - 2nd International Conference on Solid Waste Management in Developing Countries”, 13th-15th February 2011, Khulna, Bangladesh.
- R. Bigoni, S. Sorlini (2011): **“Solar thermal disinfection of drinking water for developing countries using parabolic trough concentrator”**, Proceedings of the 2nd regional Conference of the Southern African “Young water professionals”, 3rd-5th July 2011, Pretoria, Sud Africa.
- D. Palazzini, S. Sorlini (2011): **“Field monitoring of bone char-based filters in Senegal”**, Proceedings of the 2nd regional Conference of the Southern African “Young water professionals”, 3rd-5th July 2011, Pretoria, Sud Africa.
- S. Sorlini, D. Palazzini (2011): **“Experimentation on bone char-based treatment for fluoride removal from drinking water in Senegal”**, Proceedings of 35th WEDC International Conference “The future of water, sanitation and hygiene in low-income countries: Innovation, adaptation and engagement in a changing world”, 6th-8th July 2011, Loughborough University, UK.
- V. Di Bella, D. Giardina, M. Vaccari, C. Collivignarelli (2011): **“Challenges for the SWM sector in post-natural disaster and post-conflict scenarios: a comparison”**, Proceedings of 35th WEDC International Conference “The future of water, sanitation and hygiene in low-income countries: Innovation, adaptation and engagement in a changing world”, 6th-8th July 2011, Loughborough University, UK.
- D. Giardina, F. Prandini, S. Sorlini (2011): **“Addressing school water, sanitation and hygiene for the recovery phase in Haiti 2010”**, Proceedings of 35th WEDC International Conference “The future of water, sanitation and hygiene in low-income countries: Innovation, adaptation and engagement in a changing world”, 6th-8th July 2011, Loughborough University, UK.
- C. Collivignarelli, V. Di Bella, M. Vaccari (2011): **“Sorted collection of waste: a pilot project in Zavidovici (Bosnia and Herzegovina)”**, Proceedings of the “6th Symposium of Recycling technologies and sustainable development”, Soko Banja (Serbia), 18th-21st September 2011, pp. 235-241, Urednici Editore, ISBN 978-86-80987-86-6.
- R. Bigoni, S. Sorlini (2011). **Preliminary study on a small-scale parabolic trough concentrator to pasteurize drinking water in developing**



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- R. Bigoni, S. Sorlini, C. Collivignarelli (2012): “**Pilot scale validation of a solar parabolic concentrator for drinking water disinfection in a rural school in Cameroon**” - Proceedings of the 2012 EPFL - UNESCO Conference on Technologies for Development “Technology for sustainable development: a way to reduce poverty?”, Lausanne, Switzerland, 29th-31st May 2012.
- F. Vitali, M. Vaccari. (2012) **Appropriate technology for household energy access: the case of the Centrafrican stove in the Logone Valley (Chad, Cameroun).** Proceedings of the 2012 EPFL - UNESCO Conference on Technologies for Development “Technology for sustainable development: a way to reduce poverty?”, Lausanne, Switzerland, 29th-31st May 2012.
- D. Palazzini, S. Sorlini, R. Pedrazzani, M.C. Collivignarelli. (2013) **Bone char-based treatment for fluoride removal from drinking water in the rural community of Patar (Senegal).** In proceeding of the International Conference “Towards sustainable safe drinking water supply in developing countries: The challenges of geogenic contaminants and mitigation measures”, 5th-7th February 2013, Addis Ababa, Ethiopia.
- M. Caniato, C. Collivignarelli, M. Vaccari (2012). **Healthcare waste management in Gaza Strip: challenges and way forward with a participatory approach.** Proceedings of 2012 EPFL - UNESCO Conference on Technologies for Development “Technology for sustainable development: a way to reduce poverty?”, EPFL, Lausanne, Switzerland, 29-31 May 2012, ID: 338.
- M. Caniato, M. Vaccari, C. Collivignarelli, A. Abbà (2012). **Analysis and evaluation of healthcare waste management practices in Gaza Strip.** Proceedings of Crete 2012 - 3rd International Conference on Industrial and Hazardous Waste Management, Chania, Greece, 12-14 September 2012, ISSN 2241-3146, ISBN 978-960-8475-16-8, CD-Rom.
- M. Caniato, M. Vaccari, C. Collivignarelli (2013). **Solid waste management in Gaza Strip: system analysis, challenges and opportunities.** Proceedings of Waste Safe 2013 - 3rd International Conference on Solid Waste Management in Developing Countries, Khulna, Bangladesh, 10-12 February 2013. ISBN: 978-984-33-7045-7.
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