

# Europass Curriculum Vitae

## Personal information

Surname(s) / First name(s) **Vitali Francesco**

Address(es)

Telephone(s)

E-mail

Skype

Nationality

Date of birth

Gender

**Occupational field** Household energy, Solid Waste Management, Water and Sanitation

## Work experience

Dates From February 2015

Occupation or position held Technical employee

Main activities and responsibilities Solid waste system design, size and management, technical and economic feasibility studies and commercial proposals, site engineer, worker operational management and direction

Name and address of employer AVR s.p.a., via Tensi 116, 00133, Roma

Type of business or sector Private sector

Dates From June 2012 to January 2015 (free collaboration ongoing)

Occupation or position held Fellowship

Main activities and responsibilities Individual and team research activities (coordination and field/lab implementation) in the field of energy access, waste management and water&sanitation in Developing Countries (South Sudan, OPT, Mozambique, Peru, Colombia, Ethiopia); support to the tutorship of the research of PhD candidates, BSc and MSc students; organization and participation as speaker in national and international conferences and courses.

Name and address of employer CeTAmb, University of Brescia, Faculty of Engineering, via Branze 43 Brescia BS Italia 25123

Type of business or sector Research/Academic

Dates March 2012 – April 2012

Occupation or position held Waste management consultant

Main activities and responsibilities Monitoring and evaluation of the international cooperation project "Environmental protection and sustainable development: building local capacities on solid waste management in South Sudan" funded by EU and coordinated by CESVI NGO

Name and address of employer CESVI, Italy, 24128 Bergamo, via Broseta 68/a

Type of business or sector International technical cooperation

Dates January 2009 – March 2012

|                                      |  |
|--------------------------------------|--|
| Occupation or position held          | PhD candidate in the course "Appropriate Methods and Technologies for International Development Co-operation"  |
| Main activities and responsibilities | Research activity with a thesis on "Appropriate solutions for cooking energy at household level in the Logone Valley (Chad – Cameroun)" (to be defended in March 2012).<br>Field missions (April-May 2009, February-April 2010, February-April 2011) in support to ACRA NGO project "Projet de gestion participative des ressources forestières dans la vallée du Logone - ENV/2006/114-747". Organization and participation as speaker in national and international conferences and courses; proposal and grant development. |
| Name and address of employer         | University of Brescia, Faculty of Engineering, via Branze 43 Brescia BS Italia 25123   |
| Type of business or sector           | Research/Academic  |
| Dates                                | January 2008 - December 2008   |
| Occupation or position held          | Assistant researcher at CeTAmb (Research centre on appropriate technologies for environmental management in Developing Countries)  |
| Main activities and responsibilities | Individual and team research activities on multidisciplinary projects; organization and participation as speaker in national conferences and courses; field mission (August -September) in Somaliland in support to CESVI NGO project "Urban Development Programme in Somali Regions (SUDP)"   |
| Name and address of employer         | University of Brescia, Faculty of Engineering, via Branze 43 Brescia BS Italia 25123   |
| Type of business or sector           | Research/Academic  |
| Dates                                | October – November 2007  |
| Occupation or position held          | Collaboration with "ADL Zavidovici" Onlus  |
| Main activities and responsibilities | Draft of "Libro bianco dei servizi ambientali a Zavidovici" (White book on environmental services in Zavidovici); activity developed in a project in collaboration with CeTAmb (Università degli Studi di Brescia). The on-field survey required a stay of six weeks in Zavidovici (Bosnia Herzegovina) in order to collect and elaborate all the data about drinking/waste water and solid waste management in the Municipality.  |
| Name and address of employer         | ADL Zavidovici, Via Cimabue 16 c/o Casa Associazioni - 25134 Brescia   |
| Type of business or sector           | International Technical Cooperation  |
| Date                                 | June-July 2007   |
| Occupation or position held          | Collaboration with "Medicus Mundi Italia" NGO  |
| Main activities and responsibilities | Monitoring of drinking water supply resources in the Thailand's area hit by December 2004 tsunami and promotion of best practices and hygiene of the local people. The project was in collaboration with CeTAmb. The on-field survey required a stay of four weeks in Takua Pa (Thailand) in order to monitor for 5 days the local treatment plant and the piped network, and to perform the analytical survey in more than 40 water wells in Ban Nam Khem village.  |
| Name and address of employer         | Medicus Mundi Italia, Via Martinengo da Barco 6/a Brescia BS Italia 25121  |
| Type of business or sector           | International Technical Cooperation  |

## Education and training

|  |   |
|--|---|
| Dates  | September 2004 - March 2007   |
| Title of qualification awarded                                 | Master degree in Environmental Engineering (100/110)  |
| Principal subjects/occupational skills covered                 | The main occupational skills taught during this course are: water sanitation (design and management of water treatment plants, either for wastewater and drinking water); waste management (landfill, incinerators, waste collection and recycling); hydraulic infrastructures.<br>The thesis is "Environmental issues in Izcuchaca and Zurite (Cusco, Peru): operational suggestions for a sustainable solid waste management". Field mission in October-November 2006, in collaboration with SVI NGO. |
| Name and type of organization providing education and training | University of Brescia, Faculty of Engineering, via Branze 43 Brescia BS Italia 25123  |
| Level in national or international classification              | Master degree   |

|  |  |
|--|--|
| Dates  | September 2001 - September 2004  |
| Title of qualification awarded                                 | Bachelor degree in Environmental Engineering   |
| Principal subjects/occupational skills covered                 | The principal subjects taught during this course are: mathematics, physics, chemistry, computer Science. The main occupational skills taught during this course are: environmental chemistry; water quality control and solid waste management (water treatment plants, either for wastewater and drinking water, solid waste collection, treatment and disposal). |
| Name and type of organization providing education and training | University of Brescia, Faculty of Engineering, via Branze 43 Brescia BS Italia 25123   |
| Level in national or international classification              | Bachelor degree  |

### Personal skills and competences

Mother tongue(s) **Italian**

Self-assessment

European level (\*)

**English**

**French**

**German**

**Spanish**

| Understanding |                  |         |                  | Speaking           |                  |                   |                  | Writing |                 |
|---------------|------------------|---------|------------------|--------------------|------------------|-------------------|------------------|---------|-----------------|
| Listening     |                  | Reading |                  | Spoken interaction |                  | Spoken production |                  |         |                 |
| C1            | Proficient user  | C1      | Proficient user  | C1                 | Proficient user  | C1                | Proficient user  | C1      | Proficient user |
| B1            | Independent user | B2      | Independent user | B1                 | Independent user | B1                | Independent user | A2      | Basic user      |
| A1            | Basic user       | A2      | Basic user       | A1                 | Basic user       | A1                | Basic user       | A1      | Basic user      |
| A1            | Basic user       | A1      | Basic user       | A1                 | Basic user       | A1                | Basic user       | A1      | Basic user      |

(\*) Common European Framework of Reference for Languages

Social skills and competences

Good ability to adapt to multicultural environments, gained thanks to the experiences abroad.  
Improved communication capability with foreign people and knowledge of English technical language thanks to the activities performed in foreign Countries.  
Supervisor of some bachelor and master thesis

Technical skills and competences

Household energy, Water, Sanitation and Solid Waste Management:

- Situation analysis of energy access
- Stove testing (Water Boiling Tests, Controlled Cooking Tests, Kitchen Performance Tests)
- Indoor air pollution monitoring
- Economic, environmental and health impact assessment
- Research & Design of improved cookstove for wood or alternative fuels
- Design of systems for the separate collection of solid waste
- Situation analysis on solid waste management
- Analysis of waste production and composition
- Analysis of socio-economic aspects of the implementation of technologies for solid waste management (e.g. collection points and incinerators for health care waste)
- Analysis and preliminary design of technology for wastewater treatment
- Monitoring of water treatment plants, with particular focus on energy performance
- Analysis of drinking water quality
- Use of basic chemical laboratory equipment for drinking water analysis

Computer skills and competences

Microsoft Office™, (Word™, Excel™ and Power Point™), AutoCAD™, SPSS

Driving License

Holder of European driving licence (Category B vehicle).

Other skills

Attained the exam to be registered as charter engineers in September 2007.

## Main Publications

### Publication on peer-reviewed journals

- S.P. Parmigiani, F. Vitali, A.M. Lezzi, M. Vaccari (2014) Design and performance assessment of a rice husk fueled stove for household cooking in a typical sub-Saharan setting. *Energy for Sustainable Development* 08/2014; 23:15-24
- Agricultural waste as household fuel: Techno-economic assessment of a new rice-husk cookstove for developing countries (2013). F. Vitali, S. Parmigiani, M. Vaccari, C. Collivignarelli. *Waste Management* 33 (12) 2762-2770
- J.P. Temga , A. Mazzù , J.P. Nguetkam , D. Palazzini , R. Ndjouenkeu & F. Vitali (2013): Valorisation of crude earth as sustainable building material: a case of international cooperation in the Logone Valley (Chad–Cameroon), *International Journal of Sustainable Engineering*, DOI:10.1080/19397038.2013.807886
- M. Vaccari , F. Vitali, A. Mazzù (2012) Improved cookstove as an appropriate technology for the Logone Valley (Chad – Cameroon): analysis of fuel and cost savings. *Renewable Energy* 47 (2012) 45-54.
- M. Vaccari, V. Di Bella, F. Vitali, C. Collivignarelli (2013) From mixed to separate collection of solid waste: Benefits for the town of Zavidovići (Bosnia and Herzegovina) *Waste Management*, 33, 2, 277-286.
- C. Collivignarelli, M. Vaccari, F. Vitali (2011) Issues and recommendations for drinking water supply in an average Bosnian town: the case study of Zavidovići. *Journal of Water Supply: Research and Technology—AQUA* Vol 60 No 1 pp 16–26 © IWA Publishing 2011 doi:10.2166/aqua.2011.001
- M. Vaccari, C. Collivignarelli, P. Tharnpoophasiam, F. Vitali (2009) Wells sanitary inspection and water quality monitoring in Ban Nam Khem (Thailand) 30 months after 2004 Indian Ocean tsunami. *ENVIRONMENTAL MONITORING AND ASSESSMENT* Volume 161, Numbers 1-4, 123-133, DOI: 10.1007/s10661-008-0732-5

### Chapters on book

- F. Vitali, M. Vaccari (2013). Appropriate technology for household energy access: the case of the Centrafrican stove in the Logone Valley (Chad, Cameroun), in Bolay, J., Hostettler, S., Hazboun, E. (Eds.), *Technologies for Sustainable Development. A Way to Reduce Poverty? Proceedings of 2012 Conference of the EPFL-UNESCO Chair in Technologies for Development*. Springer. ISBN 978-3-319-00638-3.

### Other publications

- M. Vaccari, F. Vitali - A methodology for the calculation of GHG emissions from office-based projects. Available at <http://www.ing.unibs.it/cetamb/>

Main conferences  
and training courses

- **Lecturer** at "Biofarming Training School" on the topic "Waste management and biofarming", within the EU project "Mainstreaming Biofarming System in Ethiopian and Ugandan Higher Education Institutions", University of Addis Ababa (Ethiopia), September, 2014.
- **Lecturer** at "Tropical Medicine and international health" on "Characteristics and sound management of urban solid waste in resource-limited Countries", Faculty of Medicine, University of Brescia, March 25, 2014.
- **Lecturer** at the XIII SIMADIS international conference 6-8 November, 2013, Bucaramanga (Colombia) with "Enhancing energy access for the poor: the role of appropriate technologies in the use of traditional solid fuels"
- **Speaker** at III CUCS Conference 19-21 September, 2013, Torino with "Energy access for the poor with the appropriate use of traditional solid fuels"
- **Invited speaker** at the final workshop "WADI - Cooperating for Urban Water Management", Pisa, Italy April 14, 2013 with a presentation titled "Solid Waste Management in THE Gaza Strip".
- **Lecturer** at "FORMARE VOLONTARI PER L'AFRICA" Pavia, 9 aprile 2013 on "Sanitation In Low-Income Countries"
- **Speaker** at "Fourth international symposium on energy from biomass and waste", Venice, Italy November 12-15, 2012 with a presentation titled "Energy recovery of agricultural residues at household level in developing countries".
- **Trainer** at Workshop "Sustainable development, integrated solid waste management and waste recycling" Juba (South Sudan) Regency Hotel, 24th – 25th September 2012
- **Trainer** at workshop "Sustainable development, integrated solid waste management and waste recycling" Yei (South Sudan), Twins Hotel, 19th – 21th September 2012
- **Attended** CeTAmb Summer School anno 2012. Monitoring and evaluation methodologies applied to environmental resources in Developing Countries, 2-6 July 2012, Brescia.
- **Speaker** at the 2012 Tech4Dev International Conference "Technologies for Sustainable Development: A Way to Reduce Poverty?" 29-31 May, 2012 | EPFL, Lausanne, Switzerland
- **Invited speaker** at the workshop "Science, Technology, and Livelihoods" with a paper on "Energy recovery of agricultural residue at household level in Developing Countries", International Center for the History of Universities and Science (CIS), University of Bologna, 15-16 March 2012.
- **Organized and attended** the cycle of seminars: "Energy, development and sustainability in Developing Countries", Prof. A. Schlaepfer (Flensburg University), Brescia, Faculty of Engineering, September 26-30 2011.
- **Organized and attended** the seminar: "Research and cooperation experiences in the improved cookstove sector", Brescia, Faculty of Engineering, "An introduction to improved biomass cookstoves", C. Roth (Food&Fuel consultant), "Some additional aspects of stoves", D. Andreatta (Aprovecho research Centre), September 8 2011, Brescia, Italy.
- **Attended** "Summer Cookstove Research Institute". August 1-5 2011. Antigua (Guatemala). Organized by University of California, Berkeley.
- **Invited Speaker** at the 7<sup>th</sup> Workshop "T.A.C.E.C. – Towards A Carbon Efficient Chemistry" 14 July 2011 organized by Federchimica, Milano Italy.
- **Organized and attended** as speaker the International Workshop "Smart Cooking. International Workshop on Improved stoves, gasifier stoves and other cooking technologies for cooperation projects" June 30th - July 1st 2011 Villa Toeplitz, Insubria University Varese, Italy.
- **Speaker** at CeTAmb Summer School, 2011. Appropriate Technologies for Environmental Management in Developing Countries, 20-24 June 2011, Brescia.
- **Organized and attended** CeTAmb Summer course, 2010. "Energy in Developing Countries: appropriate technologies for energy recovery from biomass and organic waste". July 8-9 2010, Brescia.
- **Lecturer** at the Educational program "Sanitation in Subsaharian Countries: the fundamental role of education" Torino, 25 November 2010. Lesson topic "Solutions for the integrated municipal solid waste treatment".
- **Organized and attended** the Cycle of seminars: "Energy access for the poor in Developing Countries, opportunities and challenges", Prof. T. Sanchez (Practical Action), Faculty of Engineering, November 2-5, 2010.
- **Speaker** at "Third international symposium on energy from biomass and waste", Venice, Italy November 8-11, 2010 with a presentation titled "Comparison of biomass stoves as appropriate technologies for household energy in developing countries".

Brescia, 20 March 2015

*Francesco Vitali*