


## PERSONAL INFORMATION

**Antonio Panico**

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 +39 349 1889582

 [antonio.panico@unipegaso.it](mailto:antonio.panico@unipegaso.it); [anpanico@unina.it](mailto:anpanico@unina.it)

 Skype account : antonio76173  
Viber account: +393491889582

Sex Male

| Date of birth 17/03/1976

| Nationality Italian

## WORK EXPERIENCES

**University**

From April 2014

**Adjunct Professor and Researcher**

Telematic University *Pegaso* (Italy)

Graduation Program in Civil Engineering

Lectures in Environmental Engineering

From March 2011 to September  
2014

**Lecturer**

University of Molise (Italy)

Graduation Program in Civil Engineering

Lectures in Environmental Engineering

From March 2012 to June 2012

**Adjunct Professor**

University of Naples *Federico II* (Italy)

Post-graduation Program in Aeronautical Infrastructure

Lectures in Wastewater Treatment Systems

From March 2011 to June 2011

**Adjunct Professor**

University of Naples *Federico II* (Italy)

Post-graduation Program in Environmental and Sanitation Engineering

Lectures in Solid Waste Biological Treatment Systems

September 2010

**Adjunct Professor**

University of Cuenca(Ecuador)

Faculty of Arts

Lectures in Hydraulic Engineering

From March 2010 to June 2010

**Adjunct Professor**

University of Naples *Federico II* (Italy)

Post-graduation Program in Environmental and Sanitation Engineering

Lectures in Solid Waste Biological Treatment Systems

Since November 2003

**Lecturer**

University of Naples *Federico II* (Italy)

Graduation Program in Civil Engineering and Land and Environmental Engineering

Lectures in Environmental and Sanitation Engineering, Water and Wastewater Treatment Plants Designing, Water and Wastewater Treatment Plants Management , Solid Waste and Soils Remediation Treatments.

#### WORK EXPERIENCES High School

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- From September 2013 to April 2014 **Professor**  
High School *I. D'Este- Caracciolo*, Naples (Italy)  
Professor of Physic
- From November 2012 to June 2013 **Professor**  
High School *I. D'Este*, Naples (Italy)  
Professor of Physics
- From October 2011 to June 2012 **Professor**  
High School *Duca di Buonvicino*, Naples (Italy)  
Professor of Physics
- From December 2010 to June 2011 **Professor**  
High School *G. Siani*, Naples (Italy)  
Professor of Physics
- From May 2010 to June 2010 **Professor**  
High School *G. Ferraris*, Naples (Italy)  
Professor of Physics

#### WORK EXPERIENCES Others

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- From February 2007 to October 2013 **Researcher**  
A.M.R.A-Analysis and Monitoring of Environmental Risks, Naples (Italy)  
Involvement in research activities in the framework of the Projects: ARCHIMED MILDMAP ; M.I.R.A.R.E ; SOIL CAM, TRE, ETAPA I&II
- From March 2012 to February 2013 **Researcher**  
University of Naples *Federico II* (Italy)  
Involvement in research activities in the framework of the Project: STABULUM-Integrated system to treat buffalo slurry, aimed to recover water and safe energy in the context of the Programme of Rural Development 2007-2013, Measure 124 "Cooperation for development of new products, processes and technologies in the agriculture and food sectors"
- From December 2008 to January 2009 **Engineer**  
Civil Engineering Design Studio Eng. Paolo Falascoli, Naples (Italy)  
Wastewater Treatment Plants Design
- July 2008 **Engineer**  
Civil Engineering Design Studio Eng. Vincenzo De Lucia, Naples (Italy)  
Sewage System Design
- July 2007 **Engineer**  
Civil Engineering Design Studio Eng. Guglielmi, Naples (Italy)  
Wastewater Treatment Plants Design

From April 2004 to May 2004

**Engineer**

Civil Engineering Design Studio Eng. G. Lanzara, Nola (Italy)  
Sewage System Design

From September 2003 to February 2004

**Researcher**

C.U.G.Ri-Multi-Universities Centre for Risks Prevention, Salerno (Italy)  
Involvement in research activities about river hydraulics

From June 2003 to July 2003

**Engineer**

Civil Engineering Design Studio Eng. G. Lanzara, Nola (Italy)  
Water Distribution System Design

From December 2002 to September 2003

**Engineer**

Civil Engineering Design Studio Eng. V. De Lucia, Naples (Italy)  
Civil Buildings Design

EDUCATION AND TRAINING

April 2009

**Teaching Qualification**

University of Naples *Federico II* (Italy)  
Physics

February 2007

**Ph. Doctor**

University of Naples *Federico II* (Italy)  
Environmental Engineering

November 2003

**Professional Qualification**

University of Naples *Federico II* (Italy)  
Civil and Environmental Engineer

May 2003

**Master of Science Degree**

University of Naples *Federico II* (Italy)  
Environmental Engineer

PERSONAL SKILLS

Mother tongue

Italian

Other languages:

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Very good	Excellent	Very good	Very good	Excellent
Spanish	Excellent	Excellent	Excellent	Excellent	Good

- Communication skills
- Good communication skills gained through my experience as academic and school professor
- Computer skills
- good command of Microsoft Office™ tools, Matlab, Nolian, Mscap, Autocad, Idrisi, Arcview, Geogebra, Cabri, Quizfaber, Frontpage.
- Driving licence
- International driving licence category B

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**ADDITIONAL INFORMATION****Research activities**

- **Laboratories:**
  - since 2007 - Laboratory of AMRA. Analysis and Monitoring of Environmental Risk- Naples
  - since 2011 -Laboratory of Structural and Geotechnical Dynamics- University of Molise
  - since 2003 - Laboratory of Sanitary and Environmental Engineering, University of Naples Federico II.
  - 2010 & 2013 Laboratory of ETAPA, Empresa de Telecomunicaciones, Agua Potable, Alcantarillado y Saneamiento- Cuenca (Ecuador).
  - 2005-2006 - Mining Center of the Engineering School of the Catholic University of Chile - Santiago (Chile).
  - 2003- Laboratory of CuGRi Inter-University Consortium for the prevention of serious risks.
- **Collaboration for the development of the following projects:**
  - 2011 – Project STABULUM: Integrated system to treat buffalo slurry, aimed to recover water and safe energy in the context of the Programme of Rural Development 2007-2013, Measure 124 "Cooperation for development of new products, processes and technologies in the agriculture and food sectors"
  - 2008-2010 - FIRB (Investment Fund for Basic Research):Definition of Basic components and maximum achievable Objectives of a model system for the exploitation of Secondary reserves of Energy".
  - 2007-2009 – National Research Project: Water bodies protection from xenobiotic compounds: new methods for the analysis, the control and the treatment in civil and industrial wastewaters
- **Main research projects:**
  - 2006-2008 - National Research Project: Mathematical modelling of OFMSW and sewage sludge Co-digestion, promoted by the Italian Ministry of University and Research

**Academic service**

- December 2014, Member of the Examining Board of the international doctorate Etecos<sup>3</sup> “ Environmental technologies for contaminated solids, soils and sediments <http://www.internationaldoctorate.unicas.it/>
- Since 2013, Manuscript reviewer, International Journal of Energy Research.
- Since 2013, Manuscript reviewer, Food Research International
- Since 2012, Manuscript reviewer, Waste Management.
- Since 2011, Manuscript reviewer, Water Research.
- Since 2011, Manuscript reviewer, Applied Biochemistry and Biotechnology.
- Since 2011, Manuscript reviewer, Reviews in Environmental Science and Bio/technology
- Since 2003 Supervisors and Tutor of several Master Science and Bachelor as well as PhD Italian and foreigner students.

## Main international publications

2015

Pradhan N., Dipasquale L., d'Ippolito G., Panico A., Lens P.N.L., Esposito G. Fontana A., Hydrogen Production by the Thermophilic Bacterium *Thermotoga neapolitana*. *International Journal of Molecular Science*, 2015, 16(6), p. 12578-12600; doi:10.3390/ijms160612578

2014

Ariunbaatar J., Scotto Di Perta E., Panico A., Frunzo L., Esposito G., Lens P.N.L., Pirozzi F., Effect of ammoniacal nitrogen on one-stage and two-stage anaerobic digestion of food waste. *Waste Management*, in press.

2014

Panico A., d'Antonio G., Esposito G., Frunzo L., Iodice P., Pirozzi F., The Effect of Substrate-Bulk Interaction on Hydrolysis Modeling in Anaerobic Digestion. *Sustainability*, 2014, 6, p. 8348-8363, ISSN 2071-1050.

2014

Ariunbaatar J., Panico A., Esposito G., Pirozzi F., Lens P.N.L., Pretreatment methods to enhance anaerobic digestion of organic solid waste. *Applied Energy*, 2014, 123, p. 143-156, ISSN: 0306-2619.

2014

Ariunbaatar J., Panico A., Frunzo L., Esposito G., Lens P.N.L., Pirozzi F., Enhanced anaerobic digestion of food waste by thermal and ozonation pretreatment methods. *Journal of Environmental Management*, 2014, 146, p. 142-149, ISSN: 0301-4797.

2013

Panico A., Lanzano G., Salzano E., Santucci de Magistris F., Fabbrocino G., Seismic Vulnerability of Wastewater Treatment Plants, *Chemical Engineering Transactions*, Volume 32, 2013, DOI:10.3303/CET1332003

2012

Esposito G., Frunzo L., Panico A., Pirozzi F., Enhanced bio-methane production from co-digestion of different organic wastes, *Environmental Technology*, Volume 33, Issue 24, 2012, DOI:10.1080/09593330.2012.676077.

2012

Esposito G., Frunzo L., Giordano A., Liotta F., Panico A., Pirozzi F. Anaerobic co-digestion of organic wastes, *Reviews in Environmental Science and Bio/Technology*, December 2012, Volume 11, Issue 4, pp. 325-341;

2012

Esposito G., Frunzo L., Panico A., Pirozzi F., Bio-Methane Potential Tests To Measure The Biogas Production From The Digestion and Co-Digestion of Complex Organic Substrates, *The Open Environmental Engineering Journal*, 2012, 5, pp. 1-8

2011

Esposito G., Frunzo L., Panico A., Pirozzi F., Model calibration and validation for OFMSW and sewage sludge co-digestion reactors *Waste Management*, issue 12, December 2011, pp 2527-2535

2011

Andreozzi R., Panico A., Pirozzi F. Biodegradation of xenobiotic compounds and their influence on the performance of municipal wastewater treatment plants, *atti del VI Simposio Internazionale EWRA 2011 Water Engineering and Management in a Changing Environment*, 29 Giugno-2 Luglio 2011, Catania, Italia.

2011

Esposito G., Frunzo L., Panico A., Pirozzi F., Modelling the effect of the OLR and OFMSW particle size on the performances of an anaerobic co-digestion reactor, *Process Biochemistry*, Volume 46, Issue 2, February 2011, pp 557-565

2009

Esposito G., Frunzo L., Panico A., Pirozzi F., Mathematical prediction of methane formation in an anaerobic co-digestion CSTR, *Proceedings of the international conference on Sustainable Development of Energy, Water and Environment System*, Dubrovnik, 29th September- 3rd October, 2009.

2008 European Union, 2002-2013 | <http://europass.cedefop.europa.eu>

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d'Antonio L., Fabbrocino M., Panico A., Monitoring copper release in drinking water distribution system, *Water Science Technology*, 2008, vol 57 n 7, pp 1111-1115.

2008

Esposito G., Frunzo L., Panico A., d'Antonio G., Mathematical modelling of disintegration-limited co-digestion of OFMSW and sewage sludge, *Water Science Technology*, 2008, vol 58 n 7, pp 1513-1519.

Naples, 05/06/2015

Antonio Panico

A handwritten signature in black ink, appearing to read "Antonio Panico". The signature is stylized and cursive.