



Giordano Urbini

 UNIVERSITY OF INSUBRIA



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Contact data

Full Professor

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Biography

Graduated in Chemical Engineering at the Polytechnic of Milan. He began his University career near the Institute of Sanitary Engineering of the same Polytechnic under the guide of Professor Eugenio De Fraia Frangipane.

Appointed University Professor in charge to University of Pavia in 1976, he became Full Professor of the same Athenaeum in 1980.

He worked in this Athenaeum until 2002, when he moved to University of Insubria -Varese in order to found the Department of Engineering.

He promoted the activation of the Course of Degree in "Engineering for Safety & Environment" and he promotes the institution of a new Department, DASS (Dipartimento "Ambiente-Salute-Sicurezza").

For several years, he collaborates with the High Council for Public Works of the Italian Government and with a lot of international organisms, among which the W.H.O.

He has acted for many years as President of ANDIS - National Association of Sanitary-Environmental Engineering, by promoting important international relationships.

He has issued 179 scientific papers, many of international value, the majority concerning the fields of water treatment and solid wastes treatment and disposal.

Qualifications and awards

- Director of Department DASS-Dipartimento "Ambiente-Salute-Sicurezza" (Department of Environment, Health and Safety)
- President of the Course of Degree in "Engineering for Safety & Environment" at University of Insubria;
- Member of the High Council for Public Works of the Italian Government (ex art.7);
- Past President of ANDIS (National Association of Sanitary-Environmental Engineering); Responsible for scientific cooperation with international Association & Organizations;
- Coordinator of Master GIASSI ("Integrated Management of Environment, Health and Safety in Industry").

Research interests

The main interests of research are in the fields of waters treatment (especially wastewaters) and municipal and industrial solid wastes treatment & disposal. The research is essentially applied to the study of innovative technologies.

It needs to underline, in particular, the following interests of research recently and currently promoted:

Treatment of Wastewaters:

- processes of lagooning and phytodepuration to the service of small communities;
- advanced technologies with use of microporous systems in activated sludge processes;
- advanced techniques for checking the efficiency of activated sludge processes;
- implementation of wastewaters denitrification techniques;
- control of the environmental impact caused by aerosol and odour;
- chemical-physical processes for wastewaters treatment.

Municipal Solid Wastes:

- composting of selected organic fractions from municipal solid wastes and compost re-use;
- advanced technologies for stack gas treatment coming from municipal solid wastes incineration plants;
- biomasses conversion into energy;
- environmental impact of municipal solid wastes treatment and disposal systems.

Other Interests of Research:

- production and use of Biodiesel;
- hydrogen recovery from biomasses;
- biochemical processes for hydrogen production from water.

Teaching experience and appointments

"Sanitary-Environmental Engineering", Course of Degree in "Engineering for Environment & Territory", University of Pavia (1976-2002);

"Sanitary-Environmental Engineering", Course of Degree in "Engineering for Safety & Environment", University of Insubria (since 2002);

"Fundamentals of Sanitary-Environmental Engineering", Course of Degree in "Biological Sciences", University of Insubria (since 2002);
"Industrial Bioengineering", Course of Degree in "Biotechnologies", University of Insubria (since 2002).

Representative publications

List of the last 30 papers (out of 179 total):

1. G. URBINI et al. – "Technological developments in waters and solid wastes treatment in Italy and U.E. ". Campo Grande, Brazil, 18-23 september 2005 (IT).
2. G. URBINI et al. – "Experimental phytodepuration plants for small communities in the State of Bahia, Brazil". Campo Grande, Brazil, 18-23 september 2005 (IT).

3. G. URBINI et al. – "Italian-Brazilian cooperation in the area of Sanitary-Environmental Engineering". Florianopolis, Brazil, 18-20 april 2005 (IT).

4. G. URBINI – "The activities of Department "Ambiente-Salute-Sicurezza" in the management of territory". Varese, Italy, 18 february 2005 (IT).

5. G. URBINI et al. - "Normative and technical evolution for the management of municipal wastewaters". Congress organized by Government of the State of Bahia-SEMARH with University of Insubria, as part of the plan for the integrated and sustainable development of the surrounding of Sobradinho Lake, Salvador, Bahia, 8 November 2004 (P).

6. G. URBINI et al. - "Normative and technological aspects of solid wastes disposal". Congress organized by Government of the State of Bahia-SEMARH with University of Insubria, as part of the plan for the integrated and sustainable development of the surrounding of Sobradinho Lake, Salvador, Bahia, 9 June 2004 (IT).

7. G. URBINI et al. - "Saving, Recycling of Water and Technological Innovation in world-wide Water Policy". Proceedings of the 23th Workshop of Sanitary-Environmental Engineering on the re-use of wastewaters, water saving and reduction of the impact on the environment, 20 November 2003, Cremona, Italy (IT).

8. G. URBINI et al. - "Chemical-physical treatment of underground waters contaminated by leachate". Proceedings of the Congress "Technology for in-situ reclamation of underground waters" organized by University of Roma, "La Sapienza", Roma, Italy, 13-14 October 2003 (IT).

9. G. URBINI et al. – "Incineration of municipal solid wastes, with energy recovery: the Italian experience". Proceedings of the workshop "Plan Italian Technologies - Environment" as part of the 22nd Brazilian Congress of Sanitary-Environmental Engineering, Joinville, Santa Catarina, Brazil, 14-18 september 2003 (IT).

10. G. URBINI et al. – "Normative and technological developments in municipal solid wastes and wastewaters treatment, in Italy". Proceedings of the workshop "Plan Italian Technologies - Environment" as part of the 22nd Brazilian Congress of Sanitary-Environmental Engineering, Joinville, Santa Catarina, Brazil, 14-18 september 2003 (IT).

11. G. URBINI et al. - "Current strategies for municipal solid wastes disposal in Italy and U.E.". Congress on "International Cooperation about sustainable development of solid wastes", organized by the municipality of Nuova Iguaçu, Rio de Janeiro, Brazil, Nuova Iguaçu, 11 June 2003 (IT).

12. G. URBINI et al. - "Quality and diffusion of biogas: an example of monitoring on a sanitary landfill for municipal-like solid wastes".

Congress "Management of biogas from landfill: control, recovery, monitoring", organized by University of Roma, "La Sapienza", and ANDIS, Roma, Italy, 2 December 2002 (IT).

13. G. URBINI et al. - "Sustainable river basin management with special reference to water quality: Environmental, social and economic aspects". Proceedings of Workshops ALCUE - Science & Technology Vol. 3 on "Sustainable Development and Urbanization: from Knowledge to action", published by Consejo Superior de Investigaciones Cientificas-Instituto de Automatica Industrial, Madrid, Spain, 2002 (E).

14. G. URBINI et al. - "First interpretation of experimental datas about the quality of waters flowing in combined sewers". Proceedings of VI SIBESA - Italian-Brazilian Symposium of Sanitary-Environmental Engineering, Vitoria, Brazil, 1-5 september 2002 (IT).

15. G. URBINI et al. - "Comparison among Hydrogen Peroxide Advanced Oxydation Processes for the Treatment of Industrial Wastewaters". Proceedings of VI SIBESA - Italian-Brazilian Symposium of Sanitary-Environmental Engineering, Vitoria, Brazil, 1-5 september 2002 (E).

16. G. URBINI et al. - "Adsorption Properties of an Activated Carbon for Proton and Cadmium (II) by Batch Equilibration". Proceedings of VI SIBESA - Italian-Brazilian Symposium of Sanitary-Environmental Engineering, Vitoria, Brazil, 1-5 september 2002 (E).

17. G. URBINI et al. - "Application of Membranes Processes in Wastewaters Treatment". Proceedings of VI SIBESA - Italian-Brazilian Symposium of Sanitary-Environmental Engineering, Vitoria, Brazil, 1-5 september 2002 (IT).

18. G. URBINI et al. - "The waste-to-energy of municipal solid wastes: Experimental evaluation of an Integrated Plant". Proceedings of VI SIBESA - Italian-Brazilian Symposium of Sanitary-Environmental Engineering, Vitoria, Brazil, 1-5 september 2002 (IT).

19. G. URBINI et al. - "Assessing the environmental impact of WWTP expansion: odour nuisance and its minimization". Water Science & Technology, Vol. 46, n. 4-5, publishing 2002 (E).

20. G. URBINI et al. - "Influence of the Fluctuations of loads on denitrification". Proceedings of Congress organized by ANDIS and University of Roma, "La Sapienza", "Drainage of Wastewaters in Sensitive Areas", Roma, Italy, 20 June 2002 (IT).

21. G. URBINI et al. - "Chemical Risk and Control of Volatile Compounds dispersion ". Paper presented at the Workshop "The Safety and Environment protection in Wastewaters Treatment Plants", SEP-Pollution, Padova, Italy, 20 March 2002 (IT).

22. G. URBINI et al. - "Check of the effectiveness of deodorization systems". Proceedings of Congress "Testing of sewers and wastewaters treatment plant", organized by the Association of Engineers of Varese - ANDIS - University of Insubria, Varese, Italy, 29 January 2002 (IT).

23. G. URBINI et al. - "Sustainable river basin management with special reference to water quality: Environmental, social and economic aspects". Proceedings of the international Congress U.E. on Science & Technology for the promotion of cultural relationships among U.E., Latin and Caribbean countries, Mexico, November 2001 (E).

24. G. URBINI et al. - "Assessing the environmental impact of WWTP expansion odour nuisance and its minimization". Proceedings of the 2nd IWA World Water Congress, Berlino, Germany, 15-19 october 2001 (E).

25. G. URBINI et al. - "The Recovery and Re-use of Aluminium from Sludge coming from the Chemical-Physical section of drinking water treatment plants: Economic and Environmental advantages". Proceedings of the XXIst Congress ABES of Sanitary-Environmental Engineering, Joao Pessoa, Brazil, 16-21 september 2001 (IT).

26. G. URBINI et al. - "Potabilization of Waters: the role of Active Carbon in the Removal of Heavy Metals and Other Micropollutants". Proceedings of the XXIst Congress ABES of Sanitary-Environmental Engineering, Joao Pessoa, Brazil, 16-21 september 2001 (IT).

27. G. URBINI et al. - "Mitigations of Odour Pollution of Sanitary Engineering plants: Role and Application of Environmental Models". Environmental Engineering, n. 7-8, July-August 2001 (IT).

28. G. URBINI et al. - "Guidelines for testing Sanitary-Environmental Engineering plants". N. 2 volumes published by Hyper-2001 (IT).

29. G. URBINI - "Current strategies for municipal solid wastes disposal". Proceedings of the Course of Training on "The Integrated System of Solid Wastes Management", Giardini Naxos, Messina, Italy, 23-27 October 2000 (IT).

30. G. URBINI et al. - "Upgrading of municipal solid waste incineration plants for NO_x removal: Technical and economical aspects". Proceedings of "International Symposium on Sanitary and Environmental Engineering - SIDISA 2000 and V SIBESA" organized by ANDIS, ABES and AIDIS, Trento, Italy, 18-23 september 2000 (E).