
FEDERICO G. A. VAGLIASINDI, PH.D.

Full Professor of Environmental and Sanitary Engineering

Civil and Environmental Engineering Department

University of Catania, Italy

Curriculum Vitae

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EDUCATION

- Philosophiae Doctorate
Department of Civil and Environmental Engineering
University of Washington, Seattle, Washington, USA (1998);
- Master of Science in Environmental Engineering
Colorado State University, Fort Collins, Colorado, USA (1991);
- *Laurea* in Civil Engineering
University of Catania, Italy (1990).

RESEARCH AND PROFESSIONAL INTERESTS

The research activities have been conducted in Italian and North-American Universities. Specifically, has conducted research for 4 years at the Civil Engineering Department, Colorado State University, Fort Collins, Colorado (USA), and at the Department of Civil and Environmental Engineering, University of Washington, Seattle, Washington (USA).

Has co-ordinated and/or participated to research project financed by:

- European Commission, Fifth Framework Program, INCO-MED Program;
- European Science Foundation, Cost Action C18;
- Italian Ministry of University and Scientific Research
- Italian National Research Council;
- AWWARF (American Water Works Association Research Foundation, USA);
- EPRI (Energy and Power Research Institute, USA);
- University of Catania (Italy);
- University of Salerno (Italy).

Research and professional interests include:

- Characterization and control of emerging contaminants;
- Integrated solid waste management;
- Remediation of hazardous waste sites;
- Design of municipal solid waste treatment and disposal facilities;
- Closure of old landfills;
- Municipal and Industrial wastewater treatment;

- Arsenic adsorption and its speciation in batch and packed bed adsorption reactors;
- Adsorption modeling in packed bed reactors;
- Development of decision support system for wastewater treatment and reuse;
- Development of decision support system for residential water saving;
- Development of performance indicators and assessment methodologies for integrated waste services.

ACADEMIC EXPERIENCE:

- 1998-present: Environmental and Sanitary Engineering courses at University of Catania, Italy.
- Academic year 2003/2004: Coordinator of the Master program in “Integrates solid waste management and hazardous waste site remediation”, University of Catania.
- 1996-98: Contract Professor for Environmental and Sanitary Engineering and Environmental Impact Assessment classes at University of Salerno, Italy.
- 1992-1998: Teaching Assistant for Environmental and Sanitary Engineering and Environmental Impact Assessment classes at University of Salerno, Italy.
- 1993-1994: Teaching Assistant, Environmental Engineering and Science, University of Washington, Seattle.

Has organized and directed courses in Integrated solid waste management, Remediation of contaminated sites, and Water Saving Strategies and Measures.

President (2008-2011) of the Italian Association of Sanitary and Environmental Engineering Professors (GITISA).

SELECTED PROFESSIONAL EXPERIENCES

- 2003-2005: Component of the Environmental and Sanitary Section of the Italian National Great Risks Commission;
- 1999-Present: Consulting for the regional Agency for Water and Waste, dealing with design of facilities, closure of landfills, site remediation;
- 2003-Present: Consulting for the company running the largest MSW landfill in Sicily (Italy) for national and international projects;
- 2002-Present: Consulting for Water Utilities to identify appropriate water treatment schemes;
- November 1999-2004: Consulting for the Prefect of Catania (Italy) for the emergency conditions in solid waste management (consulting activities include: examination and

approval of design projects for new landfill; identification of new sites for solid waste landfills; public meeting with administrators; site visits to existing plants);

- July 2000-September 2002: Consulting for the Prefect of Siracusa (Italy) for the emergency conditions in solid waste management (consulting activities include: examination and approval of design projects for new landfill; identification of new sites for solid waste landfills; public meeting with administrators; site visits to existing plants);
- February 2004: Consulting for for a province in Sicily as member of the commission encharged with evaluating the proposals for the integrated water services management;
- October 2004: Consulting for a water utility serving 150.000 residents. Consulting activities included the design of a water treatment plant for manganese removal from drinking water;
- July 2000: Consulting for a water utility serving 150.000 residents. Consulting activities included the experimental evaluation of appropriate technology for removing trace amount of inorganic contaminants (metals) from drinking water;
- October 1999: Consulting for a city for the development of the technical specifications for a municipal wastewater treatment plant.

PROFESSIONAL MEMBERSHIPS

- ANDIS, Italian National Association of Environmental and Sanitary Engineering;
- AEESP, Association of Environmental Engineering and Science Professors;
- WEF, Water Environment Federation.

AWARDS AND SCHOLARSHIPS

- Short term mobility program, University of Catania, 1999;
- Short term mobility program, Italian National Research Council, 1998;
- Short term mobility program, Italian National Research Council, 1997;
- University of Washington, Seattle (USA), Research Assistanship (1994-1998);
- Best student paper, Rocky Mountain Section AWWA-WPCA Joined Conference, Jackson Hole, Wyoming (USA), September 1991;
- Best student paper, Rocky Mountain Section AWWA-WPCA Joined Conference, Jackson Hole, Wyoming (USA), September 1991.
- Best Thesis in Civil Engineering, Engineering Society of Catania's Province, Italy, 1990.

PUBLICATIONS

1. De Rosa S., Somma F., Vagliasindi F.G.A., "Il Sistema di Opere Idrauliche Gabcikovo-Nagymaros", Capitolo V, Utilizzazione e Tutela delle Acque nel Bacino del Danubio, Opera Universitaria di Catania, 1990.
2. Hendricks, D. W., Vagliasindi, F., "Propositions for Packed Bed Adsorption Reactor Design", ASCE Environmental Engineering National Conference, Reno, Nevada (USA), July 1991.
3. Vagliasindi, F.G.A., Napoli, R.M.A., "Smaltimento Rifiuti: Discarica o Incenerimento?", Atti del XIII Corso di Aggiornamento Tecniche per la Difesa dall'Inquinamento, Guardia Piemontese Terme (CS), Giugno 1992.
4. Vagliasindi, F., Hendricks, D. W., "Wave Front Behavior in Adsorption Reactors", ASCE Journal of the Environmental Engineering Division, Vol. 118, No 4, pp. 530-550, 1992.
5. Vagliasindi, F.G.A., Boenzi, S., Boenzi, D., Napoli, R.M.A., "La Decontaminazione dell'Amianto: Linee Guida per le Procedure di Bonifica degli Edifici", RS - Rifiuti Solidi, Vol. VII, n.2. marzo-aprile 1993.
6. Belgiorno, V., Vagliasindi, F.G.A., Napoli, R.M.A., "Bilancio di Massa dei Solidi negli Impianti di Depurazione: Valutazione della Stima ed Analisi delle Problematiche", Atti del XIV Corso di Aggiornamento Tecniche per la Difesa dall'Inquinamento, Guardia Piemontese Terme (CS), Giugno 1993.
7. Boenzi, S., Vagliasindi, F.G.A., Boenzi, D., Napoli, R.M.A., "La Determinazione Analitica dell'Amianto nei Manufatti e nell'Ambiente", RS - Rifiuti Solidi, Vol. VII n.4. luglio-agosto 1993.
8. Vagliasindi, F.G.A., Poulson, S.R., "Waste Generation and Management in the Semiconductor Industry: a Case Study", Proceedings, IAWQ Conference on pretreatment of industrial wastewaters, Athens 13-15 October 1993.
9. Belgiorno, V., Vagliasindi, F.G.A., Napoli, R.M.A., "Pretreatment of Wastewater from the Leather Tanning and Finishing Industry: a Case Study", Proceedings, IAWQ Conference on pretreatment of industrial wastewaters, Athens 13-15 October 1993.
10. Vagliasindi, F.G.A., Poulson, S.R., "Waste Generation and Management in the Semiconductor Industry: a Case Study", Water Science and Technology, Vol. 29, No. 9, 1994.
11. Vagliasindi, F.G.A., Boenzi, S., Boenzi, D., Napoli, R.M.A., "Caratterizzazione e Gestione dell'Esposizione ad Amianto nelle Scuole degli USA". RS - Rifiuti Solidi, Vol. VIII, n.5. Settembre-ottobre 1994.
12. Belgiorno, V., Vagliasindi, F.G.A., "Risk and Control of Benzene Emissions at Refueling Stations", International Symposium Pollution in Large Cities, Padova, February 1995.

13. Vagliasindi, F.G.A., Belgiorno, V., “Conceptual Design and Cost Estimates of a Vapor Extraction System to Treat LNAPL contamination at a Municipal Landfill”. ASCE International Groundwater Symposium, Texas Water 95, San Antonio, Texas, August 1995. (USA).
14. Vagliasindi, F.G.A., “Landfill Leachate: Quantification, Characterization, and Treatment Options”. ASCE International Groundwater Symposium, Texas Water 95, San Antonio, Texas, August 1995. (USA).
15. Vagliasindi, F.G.A., Henley, M., Shulz, N., and Benjamin, M., “Adsorption of Arsenic by Ion Exchange, Activated Alumina, and Iron-Oxide Coated Sands”. 1995 Water Quality Technology Conference, AWWA, November 12-16, 1995, New Orleans, Louisiana. (USA).
16. Vagliasindi, F.G.A., Napoli, R.M.A., “Aree Inquinare dalla Presenza di Amianto: Misure di Decontaminazione, Sicurezza sul Lavoro e Smaltimento”. Giornate Europee di Studio sull’Ambiente - Risanamento di Suoli Contaminati, Palermo, 29 novembre-1 dicembre 1995.
17. Vagliasindi, F.G.A., Papale, U., Napoli, R.M.A., Leone, M., “Bonifica di Manufatti in Amianto”. Atti della giornata di studio Lotta alle emergenze ambientali in Calabria, Sezione Calabria dell’Associazione Idrotecnica Italiana, Quaderni di Idrotecnica 10, pp. 23-42, Editoriale Bios, Cosenza, Aprile 1996.
18. Belgiorno, V., Vagliasindi, F.G.A., Napoli, R.M.A., and Conti, G. “Un sistema informativo a supporto della manutenzione integrata dei rii del centro storico veneziano”. Progetto Scientifico Lagunare Veneziano, Maggio 1996.
19. Vagliasindi, F.G.A., Belgiorno, V., “Critical Issues in the Monitoring and Control of Toxic Air Contaminants at POTWs”. ASCE, North American Water and Environment Congress ‘96, Anaheim California, June 1996. (USA).
20. Vagliasindi, F.G.A., Belgiorno, V., Napoli, R.M.A., and Conti, G. “Venice, Italy: an Integrated Approach to Solve the Environmental Problems of its Unique Collection System”. ASCE, North American Water and Environment Congress ‘96, Anaheim California, June 1996. (USA).
21. Vagliasindi, F.G.A., Hendricks, D., “Rational Design and Operation of Packed Bed Adsorption Reactors”. ASCE, North American Water and Environment Congress ‘96, Anaheim California, June 1996. (USA).
22. Mendia, L., Napoli, R.M.A., Vagliasindi, F.G.A., “Depurazione dei Liquami Urbani” Manuale dell’Ingegnere, Edizioni Cremonese, pp. 1270-1312, Giugno 1996.
23. Vagliasindi, F.G.A., Benjamin, M., “Treatability by Iron-Oxide-Coated Adsorbents of a Selenium Bearing Oil Refinery Wastewater”. Water Environment Federation 69th Annual Conference and Exposition, Dallas, Texas, October 5-9 1996. (USA).
24. Vagliasindi, F.G.A., Benjamin, M., “Arsenic Removal from Drinking Water Supplies by Adsorption onto Ion Exchange Resins”. SIDISA, Simposio

- Internazionale di Ingegneria Sanitaria Ambientale, pp. 710-721, Ravello (SA) 3-7 giugno 1997.
25. Belgiorno, V., Vagliasindi, F.G.A., Napoli, R.M.A., "Recycling and reuse of demolition wastes: issues and prospects". *Ingegneria Sanitaria/Ambientale*, numero 1/2, 1997, pp. 119-122.
 26. Vagliasindi, F.G.A., Benjamin, M., "Batch Tests for Arsenic Adsorption by Ion Exchange, Activated Alumina, and Iron-Oxide Coated Sands". *Ingegneria Sanitaria/Ambientale*, numero 1/2, 1997, pp. 69-76.
 27. Vagliasindi, F.G.A., Benjamin, M., "Comparison of Various Preparations of Iron-Oxide-Coated Adsorbents with Respect to Metal Sorption and Arsenic Regeneration". *SIDISA, Simposio Internazionale di Ingegneria Sanitaria Ambientale*, pp. 1026-1038, Ravello (SA) 3-7 giugno 1997.
 28. Vagliasindi, F.G.A., Benjamin, M., "Arsenic Behavior in Packed Bed Adsorption Reactors: Media Performance Vs. Water Quality Composition". *American Water Works Association Annual Conference and Exposition, Atlanta, Georgia, June 15-19, 1997. (USA), ISBN 0-89867-969-9.*
 29. Vagliasindi, F.G.A., Benjamin, M., "Arsenic Removal and its Speciation in Adsorption Reactors:". *American Water Works Association Annual Conference and Exposition, Dallas, Texas (USA), June 1998 (pp. 447-458).*
 30. Vagliasindi, F.G.A., Belgiorno, V., e Napoli, R.M.A., "Water Treatment in Remote and Rural Areas: a Conceptual Screening Protocol for Appropriate POU/POE Technologies". *Environmental Engineering and Renewable Energy*, pp. 329-336, Pergamon Press (1998).
 31. Vagliasindi, F.G.A., Benjamin, M., "Arsenic Removal in Fresh and NOM-preloaded Ion Exchange Packed Bed Adsorption Reactors". *Water Science and Technology Vol.38, No. 6, pp. 337-343, 1998.*
 32. Vagliasindi, F.G.A., *Emergenza rifiuti urbani e speciali: esperienze e prospettive per la provincia di Catania. Atti del Convegno "Tecnologie per la difesa dell'ambiente", Nucleo ANDIS Siracusa, Consorzio CERICA, Priolo Gargallo (SI), giugno 2000.*
 33. Amy, G., Benjamin, Carlson, K., M., Edwards, M., McNeill, L., Vagliasindi, F.G.A., *Arsenic Treatability Options and Residuals Evaluation. Manual. American Water Works Research Foundation, Denver, Colorado (USA) 2000.*
 34. S. Torrisi, S., Ciravolo, L., Vagliasindi, F.G.A., *Field characterization and modeling of water quality under different scenarios in a polluted river. Proceedings 1st World Congress of the International Water Association, July 2000.*
 35. Mancini G., Indelicato S., Vagliasindi F.G.A., *Small reservoirs and wastewater reuse: performance based guidelines. Proceedings SIDISA 2000, International Symposium on Sanitary and Environmental Engineering, Trento, September 2000.*
 36. Sipala S., Mancini G., Vagliasindi F.G.A., *E-wa-tro: a web-based decision support system for the evaluation of wastewater treatment and reuse options. Proceedings*

- SIDISA 2000, International Symposium on Sanitary and Environmental Engineering, Trento, September 2000.
37. Mancini G., Vagliasindi F.G.A., Development of an environmental impact assessment methodology for complex water utilities and its application to a case study. Proceedings SIDISA 2000, International Symposium on Sanitary and Environmental Engineering, Trento, September 2000.
 38. Di Benedetto A., Giuseppe Mancini G., Vagliasindi F.G.A., Strategie e misure per l'incentivazione del risparmio idrico domestico: sviluppo di un sistema di supporto decisionale. *Ingegneria Ambientale*, pp. 95-107, V. XXX, N.2 febbraio 2001.
 39. Vagliasindi, F.G.A., Benjamin, M., "Redox Reactions of Arsenic in Experimental Solutions and Effects on Its Adsorption". *Journal of Water Supply: Research and Technology – Aqua* V. 50, N. 4, August 2001.
 40. Vagliasindi F.G.A., Savarese R., Mancini G., "Rimozione del vanadio in unità ad adsorbimento" in: *Analisi dei fenomeni di alterazione della qualità delle acque potabili: tecniche di prevenzione e controllo*, CUEN Srl Napoli, Luglio 2002, pagg. 93-170.
 41. Scarpulla F., Longo G., Mancini G., Vagliasindi F.G.A., "Il sistema integrato di gestione dei rifiuti solidi urbani: sviluppo di una metodologia di pianificazione consensuale". Proceedings VI° SIBESA 2002, International Symposium on Sanitari and Environmental Engineering, Victoria, Brasil, 1-5 September 2002;
 42. Longo G., Mancini G., Giuffrè R., Vagliasindi F.G.A., "Sviluppo di un sistema informativo di supporto alle attività di bonifica di siti contaminate". Proceedings VI° SIBESA 2002, International Symposium on Sanitari and Environmental Engineering, Victoria, Brasil, 1-5 September 2002;
 43. Sipala S., Mancini G., Vagliasindi F.G.A., "Development of a Web-Based Tool for the calculation of Costs of Different Wastewater Treatment and Reuse Scenarios". Proceedings, International Symposium on Water Recycling in Mediterranean Region, Iraklio, Greece, 26-29 September, 2002;
 44. Mancini G., Sipala S., Vagliasindi F.G.A., "Treated wastewater storage for agricultural reuse: development of design and operational criteria". Proceedings, International Symposium on Water Recycling in Mediterranean Region, Iraklio, Greece, 26-29 September, 2002;
 45. Sipala S., Mancini G., Vagliasindi F.G.A., "The Effect Of Flushing Gates On The Production And Control Of Hydrogen Sulphide In Sewer Systems". Proceedings 16th European Junior Scientist Workshop, Real Time Control of Urban Drainage Systems, 7-10 November 2002, Grammichele (Catania), Italy;
 46. D'Amico A., Mancini G., Vagliasindi F.G.A., Gestione dei rifiuti da eventi calamitosi: sviluppo di uno strumento integrato di riferimento e supporto. *RS - Rifiuti Solidi*, Anno XVI, n.6. Novembre-dicembre 2002, pagg. 340-358;

47. Roccaro P., Sipala S., Vagliasindi F.G.A., "L'adeguamento degli impianti di depurazione dopo il D. L.vo 152/99". Atti Prima Conferenza Internazionale sull'Ambiente (Catania 9-12 aprile 2003):
48. Sipala S., Mancini G., Vagliasindi F.G.A., "Development of a Web-Based Tool for the calculation of Costs of Different Wastewater Treatment and Reuse Scenarios, Water Science and Technology: Water Supply, Volume 3 Issue 4, 2003;
49. Roccaro P., Mancini G., Sipala S., Vagliasindi F.G.A., "Redazione dei piani di tutela delle acque: criteri metodologici e sviluppo di un sistema informativo di supporto" *Ingegneria Ambientale*, vol. XXXII, n. 11-12 nov. – dic. 2003;
50. Savarese R., Sipala S. e Vagliasindi F.G.A., "Rimozione su impianto pilota del vanadio presente in acque destinate al consumo antropico: risultati preliminari". Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004, Paper ANDIS 233, p. 219, Taormina, 23-26 Giugno 2004 ISBN/ISSN: 88-7850-000-3.
51. Sipala S., Vagliasindi F.G.A., "Vanadium removal from synthetic water by adsorption in columns packed with media containing iron oxides". Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004, Paper ANDIS 194, p. 213, Taormina, 23-26 Giugno 2004 ISBN/ISSN: 88-7850-000-3.
52. Sipala S., Vagliasindi F.G.A., "Bench scale vanadium removal from drinking water supplies by ferric hydroxide adsorption and co-precipitation". Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004, Paper ANDIS 193, p. 212, Taormina, 23-26 Giugno 2004 ISBN/ISSN: 88-7850-000-3.
53. Roccaro P., Sipala S. e Vagliasindi F.G.A., "The upgrading of urban wastewater treatment plants after the L.D. 152/99 and the M.D. 185/03". Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004, Paper ANDIS 195, p. 160, Taormina, 23-26 Giugno 2004. ISBN/ISSN: 88-7850-000-3
54. Zito D., Longo G., Vagliasindi F.G.A., "Sviluppo di un modello per l'analisi relativa del rischio nell'ambito di un sistema informativo di supporto per le attività di bonifica di siti contaminati", Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004– 23-26 Giugno 2004. ISBN/ISSN: 88-7850-000-3
55. Falciglia P., Barone C., Vagliasindi F. G. A., "Indagine sperimentale di fitodepurazione per la bonifica di siti contaminati dalla presenza di ceneri di pirite", Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004– 23-26 Giugno 2004. ISBN/ISSN: 88-7850-000-3
56. Parisi R., Mancini G., Roccaro P., Vagliasindi F.G.A. (2004). "Comparison of the effects of different water saving measures applied to sport centres", Proceedings

- SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004. ISBN/ISSN: 88-7850-000-3
57. Alchirafi D., Mancini G., Barone C., Vagliasindi F.G.A. (2004). “Bacteria persistency on soil and on different kind of crops after the last irrigation with urban wastewater”, Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004. ISBN/ISSN: 88-7850-000-3
58. Gentile M., Mancini G., Roccaro P., Barone C., Vagliasindi F.G.A. (2004). “Time monitoring of mean chemical, physical and microbiological characteristics of wastewater stored in a small farm reservoir”, Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004. ISBN/ISSN: 88-7850-000-3
59. Gentile M., Barone C., Mancini G., Vagliasindi F.G.A. (2004). “Use of MRT e PFEn as operational index in finishing behaviour optimization of wastewater storage phase)”, Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004. ISBN/ISSN: 88-7850-000-3
60. Longo G., Zito D., Falciglia P., Mancini G., Vagliasindi F.G.A. (2004). “Characterization of three contaminated public sites included in the area of national interest of Priolo Gargallo (SR)”, Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004. ISBN/ISSN: 88-7850-000-3
61. Ancarani A., Vagliasindi F.G.A., Leotta S. (2004). “Definizione di indicatori di qualità del servizio di raccolta e smaltimento dei rifiuti solidi urbani”, Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004. ISBN/ISSN: 88-7850-000-3
62. Roccaro P., Vagliasindi F.G.A. (2004). “Planning water resources protection in Italy: state of the art and perspectives”, Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004. ISBN/ISSN: 88-7850-000-3
63. Falciglia P., Roccaro P., Vagliasindi F.G.A. (2004). “Water usage and saving in institutional buildings: experiences and outlook”, Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004. ISBN/ISSN: 88-7850-000-3
64. Santamaria A.E., Barone C., Vagliasindi F.G.A. (2004). “Characterization and physico-chemical treatment of leachate from defunct municipal landfills”, Proceedings SIDISA 2004, International Symposium on Sanitary and Environmental Engineering, Taormina, Italy, 23-26 June 2004.. ISBN/ISSN: 88-7850-000-3. CATANIA: CSISA Onlus (ITALY).

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69. Mancini G, Roccaro P., Sipala S., Vagliasindi F.G.A. (2005). Criteria for marginal water treatment and reuse under drought conditions. In Andreu J., Rossi. G., Vagliasindi F., Vela A. Drought Management and Planning for Water Resources. ISBN: 1-56670-672-6. BOCA RATON: Taylor and Francis.
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72. ANCARANI A., SANTAMARIA, A. VAGLIASINDI F.G.A. (2005). "IDENTIFICATION OF A SET OF INDICATORS FOR ANALYSING PERFORMANCES IN SOLID WASTE SERVICE SECTOR", 9th International Conference on Environmental Science and Technology, Rhodes, 1-3 september 2005 ISBN/ISSN 960-7475-33-X
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- 2005: tenth international waste management and landfill symposium. S.Margherita di Pula (CA) 3rd-7th October. (pp. 1-8). CAGLIARI: Cossu R., Stegmann R. - CISA, (ITALY).
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