

## Federico Valentini

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### Personal information

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Date and place of birth: September 28, 1963, Marciano della Chiana (AR)  
Current address: Via don Giuseppe Puglisi, 14  
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### Education

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Studies: Laurea degree in Agricultural Sciences . University of Perugia - 1989.  
Thesis dissertation: "Changes induced by the contribution of humic substances in soil used for the breeding pot of rooted olive tree" - score 110/110.

*Chemical Technician - High school Diploma - ITIS Galileo Galilei – Arezzo (IT) - 1983.*

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### Work Experience

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Current employment: From 18/12/2014: Environmental consultant.  
Providing consultancy services on wastes recycling, agricultural by-products managements, composting, anaerobic digestion, process optimization, permitting, environmental monitoring.

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Previous employment: 07/02/2012 – 18/12/2014 Business Innovation Manager at Catanzaro Group, Agrigento, Italy (<http://www.catanzarocostruzioni.com>).

The Catanzaro Group designs, builds and runs plants for the treatment, processing and disposal of waste. The company's plants currently accomplish the Municipal Solid Waste (MSW) treatment requirements of almost one million people. The company employs a staff of 60 and has a permanent technical organization servicing the managed plants. The staff also works on the development of new projects and on technological research in collaboration with several Universities and Research Institutions.

Key responsibilities: waste cycle optimization, designing composting plants, municipal wastes treatment and recycling plants.

01/07/1998 – 31/12/2011 Process manager at GESENU SPA, Perugia – Italy. ([www.gesenu.it](http://www.gesenu.it))  
GESENU is a private company owned, in part (45%), by the Municipality of Perugia and, for the rest, by private enterprisers. The company has over 30 years experience in collection, transport, treatment, recycling and disposing municipal and industrial wastes and operate mainly in the Umbria Region but also in other Italian regions (e.g. Campania, Sicily, Sardinia, Piedmont, Marche) and also has operated and operate outside Italy (Cairo and Giza - Egypt, Braşow – Romania).

Key responsibilities: waste cycle optimization, managing composting and other recycling plants.

01/08/1992 31/07/1998: Associated Researcher at the Bio Integrated Technology Ltd (now BT Biotechnologies Ltd), Todi - PG. Responsible for lab and greenhouse screening and development of biological pesticides based on *Bacillus thuringiensis* and other entomopathogenic bacteria.

**Main skills:** **Process manager** management and optimization of the composting process, anaerobic digestion, and other treatments of organic wastes.

**Responsible for R&D and technological innovation** on management techniques and recycling of organic waste. Project manager of several research and industrial innovation projects related to the organic waste sector.

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### Other professional experiences:

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Scientific coordination, advising, consultancy: Independent expert for the evaluation of Collaborative Projects in the KBBE2011-5 call of the 7<sup>th</sup> Framework Program of the European Commission. From February 15<sup>th</sup>, 2011 to April 7<sup>th</sup>, 2011.

Scientific coordinator of the Project of Technological Innovation "ENCORE" - Energy and fertilizer from manure and other biomass wastes - implemented by the SIA Spa Marsciano (PG) (GESENU GROUP) and by CODEP Scarl, Bettona (PG), for the technological optimization of two anaerobic digestion plants followed by aerobic composting. 2002-2005 (Funding: Fondo per l'Innovazione Tecnologica, Ministry of Industry).

Scientific coordinator of the Applied Research Project "UMICA" – Intelligent Modular Unit for Accelerated Composting - implemented by Se.T.A. Spa, Cava de' Tirreni (SA) (GESENU GROUP) for the composting of highly putrescibile biomass. 2002-2006 (Funding: Programma Operativo Nazionale, Ministry for Innovation, University and Scientific Research).

Scientific advisor of the Applied Research Project UMBRA - Mobile Units for the Accelerated Bioremediation implemented by SECIT Spa (GESENU GROUP), for the remediation of soils polluted with hydrocarbons and other organic pollutants. 2002-2005.

Adviser of the Governmental Commissioner for Waste Emergency in the Region Campania for setting the regional guidelines on composting plants. May 2003 - December 2003

### Membership:

Since October 2001 member of the Technical Committee of the Italian Compostors Consortium and Coordinator of the Working Group on the Stability of Compost and the alternative uses of the biostabilized organic fraction.

Since October 2002 individual member of the ISWA (International Solid Waste Association ) and active participant of the ISWA Working Group on Biological Treatment of Wastes.

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### Lectures at conferences and seminars

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- Speeches in conferences, seminars and workshops:
- Title: Acceptance at landfills and process optimization: the importance of a consistent approach. International ISWA Beacon Conference: "Management of biowaste, recovery of organic substance, mitigation of climate change" Perugia, 15-16 aprile 2010".
  - Titles: "Technologies for quality composting: dynamic systems" and "Technology for Biostabilisation". Course "Technologies for the Biowaste: treatments and biological processes applied to solid wastes". Organised by "Department of Hydraulic and Environmental Engineering and Road Infrastructures - Environmental Section, Milan Polytechnic in collaboration with the Consorzio Italiano Compostatori. Milan, 22–26 February 2009.
  - Title: *Process optimisation and test methods to assess stability*. International ISWA Beacon Conference: "The global challenge: Optimising the C cycle" Perugia, May 21-23, 2008".
  - Title : *Compost in organic fertilization plans: the technical and agronomic conditions and business prospects for the compost in horticulture, viticulture and olive growing*. Workshop "The valorisation of composted amendments" organised by: CIC – Consorzio Italiano Compostatori. Bologna, July, 2<sup>nd</sup>, 2008
  - Title: Compost in organic fertilisation plans: technical-agronomic and marketing requirements for using compost in horticulture vineyards and olive trees. Workshop "Valorization of Composted Amendments" organised by CIC – Consorzio Italiano Compostatori. Bologna, July, 2<sup>nd</sup>, 2008.
  - Title: *MBT, the Landfill Directive and issues related to acceptance at landfill sites*. Workshop "Diversion of Biodegradables and Landfill Interactions" organised by the Hellenic Solid Waste Management Association and the International Solid Waste Association, Athens, March 14, 2007.
  - Title: Role of organic wastes for energy and fertilizers production. Congress "Commitment of the Perugia Faculty of Agriculture in the biomass sector" organised by: Faculty of Agriculture, University of Perugia. Perugia, February, 21<sup>st</sup>, 2007.
  - Title: MBT Situation in Italy: from the production of MSW compost to the biostabilisation before landfilling. International 6th ASA Waste Days Mechanical Biological Waste Treatment MBT In Practice. Hannover February, 3<sup>rd</sup>, 2006.
  - Title: Process optimisation at composting and MBT sites: operational concepts and instruments for proper monitoring. ISWA seminar: "Biological Treatment in the EU". Organised by the Romanian Association of Solid Waste Management in collaboration with SEP Romania- Bucarest March 17<sup>th</sup>, 2005.
  - Title: Overview of test methods to assess stability of treated materials. International ISWA Beacon Confer-
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ence: "The biological treatment of waste and its role in integrated waste management". Proceedings edited by ASTEE - Association Scientifique et Technique pour l'Eau et l'Environnement - Paris. 4-5 December 2003.

▪ Title: Developing Quality Compost for the Market Place. XXVIII Conferencia Anual ATEGRUS. Asociación Técnica para la Gestión de Residuos y Medio Ambiente. Valencia, 18-19 April 2002.

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### Some scientific publications

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**Valentini F.** 2015. La gestione dei Rifiuti Organici e l'industria del Compostaggio. Agrifoglio. Periodico dell'ALSIA (Agenzia Lucana di Sviluppo e di Innovazione in Agricoltura). N. 52, Ottobre 2015. Matera. Italy.

Canovai A., **F. Valentini**, S. Marano 2012. Landfill leachate: technical and economic aspects of treatment in situ. Proceedings of the ISWA 2012 International Conference. Firenze, Italy.

Di Maria F., A. Canovai, **F. Valentini**. 2012. Management of the Biodegradable Fraction of Residual Waste by Sustainable Landfill. Proceedings of the ISWA 2012 International Conference. Firenze, Italy.

Di Maria F., A. Canovai, **F. Valentini**, A. Sordi, C. Micale. 2012. Energy and Environmental Benefits from Waste Management: Experimental Analysis of Sustainable Landfilling. Proceedings of ECOS 2012 - The 25th International Conference on energetic and environmental benefits from waste management: experimental analysis of sustainable landfill. June 26-29, Perugia, Italy.

Di Maria F., A. Sordi, C. Micale, F. Castellani, G. Cirulli, **F. Valentini**, A. Canovai, 2012. Aerobic pre-treatment of mechanical screened MSW: effects on landfill anaerobic biodegradation. Proceeding of ORBIT Conference 2012. June 12-15, Rennes, France.

Di Maria F., A. Canovai, **F. Valentini**, A. Sordi, C. Micale. 2011. Experimental investigation of some management aspects for bioreactor landfill (poster). Convegno "Lo smaltimento in discarica dei rifiuti, le novità intervenute a livello europeo e l'applicazione dei nuovi criteri di ammissibilità" a cura di ISPRA. Edizioni Ecomondo 2011. Rimini, Italy.

Di Maria F., **F. Valentini**. 2011. Effect of MSW aerobic pre-treatment on biogas potential for bioreactor landfill: experimental analysis. Proceedings of the Sardinia 2011 International Symposium. Santa Maria di Pula, Cagliari, Italy.

Morra L., M. Bilotto, **F. Valentini**, M. R. Ingenito. 2009. Composting of olive mill wastes with UMICA technology. Raw materials and tested mixtures, process monitoring and quality of produced compost. Proceedings of the 18th CIEC Symposium of the International Scientific Centre of Fertilizers "More Sustainability in agriculture: New Fertilizers and Fertilization Management". Rome. 8-12 November 2009.

C. Pane, **F. Valentini**, G. Bonanomi, L. Cozzolino, V. Antignani, G. Puopolo, A. Zoina and F. Scala. 2007. Control of plant pathogens by using a compost tea. XIV Congresso SIPaV Perugia 18-21 settembre 2007

Ciani M., F. Tatàno, **F. Valentini**, F. Mangani, L. Lattanzi, M. Taccari, A. Canovai. 2007. Biorisanamento di terreni contaminati da idrocarburi con addizione di compost da RSU: esperienze di ricerca applicata. Quaderni di Ingegneria Ambientale Inquinamento e Depurazione. Anno XXXVI, n. 44

Noto La Diega C. R., **F. Valentini**. 2006. Il compost dalla frazione organica dei rifiuti urbani: il caso Egitto. *Fertilitas Agrorum* 2 (1): 49-54

Ciani M., M. Taccari, F. Tatàno, F. Mangani, **F. Valentini**, A. Canovai. 2006. Ex situ solid-phase bioremediation with compost addition from MSW: experimental test series at pilot-scale on diesel-contaminated soils. Proceeding of the International Conference ORBIT 2006. Weimar, Germany

Businelli M., R. Calandra, G. Gigliotti, D. Businelli, **F. Valentini**. 2004. Renaturalization of a controlled landfill using inert excavation soil and municipal waste compost. Proceeding of the 2004 ISWA World Environment Congress. Rome.

E. Fratticcioli, M. Dionigi, **F. Valentini**, R. Sorrentino, "Monitoring Moisture Content in Composting Systems Using a Planar Resonant Sensor", IEEE IMTC2004 Conf. Proc., Como, Italy, 18-20 May 2004, pp. 339-342

**Valentini F.**, Crispolti A., Canovai A. 2004. Upgrading of the Pietramelina composting plant for the production of high quality compost. Proceeding of the 2004 ISWA World Environment Congress. Rome.

Canovai A., **F. Valentini**, E. Manetti, M. Zagaroli. 2004. Odor control in composting plants: results from full-scale experiences. *Journal of Environmental Science and Health Part A—Toxic/Hazardous Substances & Environmental Engineering*. Vol. 39, No. 4.

Adani F., G. Gigliotti, **F. Valentini**, R. Laraia, 2003. Respiration Index Determination: a comparative study of different methods. *Compost Science & Utilization*. Vol. 11, No. 2, 144-151.

Gigliotti G., **F. Valentini**, F.G. Erriquens. 2003. Stabilità biologica e grado di evoluzione della sostanza organica del compost, atti del XXI Convegno della Società Italiana di Chimica Agraria, Ancona.

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### Dissemination articles

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**F. Valentini**. 2008. Meglio un rifiuto riciclato oggi... che una montagna di rifiuti domani. XVIII settimana della Cultura Scientifica a cura dell'Università degli studi di Perugia, 07 marzo 2008, Perugia.

**F. Valentini**, M. Pera. 2007. Promozione della raccolta differenziata dei rifiuti, strumento principe. *Rivista Spazio Ambiente*, Perugia. N. 12, 6-10.

**F. Valentini**, A. Di Gregorio. 2006. TMB, la flessibilità premia. *Rifiuti Oggi*. Editoriale La Nuova Ecologia soc. coop. Roma, Anno 16, n. 174, 175, 176.

**F. Valentini**, intervista a. 2006. A cura di Guido Maraspin, GEA, Gestione ed Economia dell'Ambiente, Maggioli Editore. Rimini. Anno

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XIX, n. 5.

**F. Valentini.** 2005. GESENU, servizi da esportazione. Rifiuti Oggi. Editoriale La Nuova Ecologia soc. coop. Roma, Anno 15.

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Perugia, May 03, 2017

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