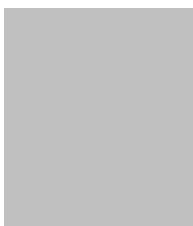


PERSONAL INFORMATION

Gaetano Settimo



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WORK EXPERIENCE

October 1989-Present

As permanent staff of the Istituto Superiore di Sanità, (Italian National Health Institute-ISS) he is regularly involved in the following tasks:

Expert in national working groups held by the Ministries of the Environment and Health regarding the release of Integrated Pollution Prevention and Control IPPC directive (96/61/EC, 2008/1/EC, 2010/75/EC) authorisations for plants under public responsibility, sanitation issues linked to waste incineration, coal-fired power plants, refineries, steel plants, indoor residential environments, and air quality analysis.

Since 15/12/2015 he is the coordinator of the Working group Indoor air quality - ISS.

Highly-experienced in the design and implementation of air quality assessment and management programs such as: national air quality implementation (Italian decree 60/2002, DLgs 152/2007, DLgs 155/2010).

Participation in numerous data collection campaigns for the analysis of:

- environmental macro/micro-pollutants
- emissions from industrial processes
- air quality in urban and industrial/work environments
- pollutants in indoor residential environments in the context of national sanitation monitoring programmes

Feb 2012-Dec 2013

World Health Organisation (WHO) Bonn:

"Evaluation of the status of health and environmental exposures of the population of Milazzo, and the other areas at high environmental risk"

- Analysis of each industrial process in the three areas and identification of those presenting higher environmental pressure/criticality;
- Evaluation of the data collected from the air quality network;
- Setup of environmental surveillance and monitoring plans for reducing air pollution (with specific focus on the main micro-pollutants);
- Identification of appropriate sampling techniques, analysis of the most significant sites;
- Application of specific regulations and evaluation methods;
- Environmental Pollution Act, implementation of authorisation procedure Prevention and control of Persistent Organic Pollutants (POPs);

Implementation of legislation on environmental permitting, environmental.

March 2009-July 2010

Expert Sino-Italian PCB Incineration Project, China:

- PCB Incineration Process Management and Monitoring, starting from Trial Burns;
- Preparation of documentation to choose the Best Available Techniques (BAT), in particular abatement technologies and containment systems in incineration plants;
- Supervision and training of personnel involved;
- Preparation of technical notes to optimise the incineration process controls;
- Technical and regulatory consultancy on Persistent Organic Pollutants (POPs) emissions from the incineration plants;

Implementation national legislation.

March 2008- Dec 2008

World Health Organisation (WHO) Rome:

- Expert Environmental Project Manager World Health Organisation (WHO) Rome - Italy: Evaluation of the status of health and environmental exposures of the population of Milazzo, and the other areas at high environmental risk".
- o Analysis of each industrial process in the three areas and identification of those presenting higher environmental pressure/criticality;
 - o Implementation of air quality network and evaluation of the data collected;
 - o Setup of environmental surveillance and monitoring plans for the main micro-pollutants (e.g. dioxins/furans, PCB, PAH) and inorganic (heavy metals);
 - o Identification of appropriate sampling techniques, analysis of the most significant sites;
 - o Application of specific regulations and evaluation methods;
 - o Define the methodologies for sampling and analysis, in particular on aspects relating to the design operation emissions of inorganic and organic micropollutants..

EDUCATION AND TRAINING

University di Tor Vergata Roma
(2006-2010)

PhD in Environmental Engineer

Thesis research: Fine and ultra fine particular matters coming from waste thermal treatment plants.

University Alma Mater
Studiorum (2007-2007)

Master

Current and innovative technologies for gaseous emissions control in waste combustion, and environmental impacts in waste management.

University of Rome La Sapienza
(1990-2005)

Degree in Industrial Chemistry analytical specialization at the equivalent to a First Degree+Thesis in Science.

Thesis research : PCDD/F formation and destruction mechanisms, Hg emissions: experiences in a full scale waste incineration plant.

In 2007 he passed the **State Exam Habilitation to the Chemist Profession valid in Europe** according to the Dir.89/48EEC. In order to exercise the profession corresponding to your degree title, the current legislation involves passing a State examination aimed at obtaining the approval to such an exercise

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	B1	B1	B2
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

Excellent verbal and written communication skills both in an office environment and with external stakeholders.
Experienced at giving presentations to large audiences.

Organisational/managerial skills

Excellent organizational and prioritization skills.

Job-related skills

Senior environmental consultant with 20 years professional experience in the environmental sector and about 15 years of experience in air quality and emission management system as project manager.

Computer skills Competent in Microsoft Office suite of Programmes

Driving licence A, B

ADDITIONAL INFORMATION

Publications Over 160 articles published in specialist scientific journals and presented in over 70 seminars and congresses.

ANNEXES

Publications

- Sampling of PCDDs and PCDFs at the MSW incineration plants. Proc: 11th International symposium: Combustion and energy recovery from M.S.W. Palermo, Octobre 1990. 257-268.
- Tools for evaluation of impact associated with MSW incineration plant. Proc: 11th International symposium: Combustion and energy recovery from M.S.W. Palermo, March 1993. 96-104.
- Indications for environmental impact studies regarding the public health component. Industrial hazardous waste treatment plants and landfill. Part I. Collection and analysis procedures, parameters and criteria for evaluating effects, environmental quality criteria. Rapporti Istisan 94/6 Pt1. Rome, 1994.
- Indications for environmental impact studies regarding the public health component. Industrial hazardous waste treatment plants and landfill. Part II. Models for the study of environmental pollutants mobility and fate in underground water. Rapporti Istisan 94/6 Pt2. Rome, 1994.
- Selected carcinogenic organic microcontaminants and heavy metals in the Venice lagoon. contamination levels of bottom sediments. Proc: DIOXIN 97 "17th International symposium on chlorinated dioxins and related compounds" vol. 34. Indianapolis, Indiana USA, Aug 1997. 55-60.
- Emission control for waste incineration. Proc: National symposium Ricicla 97. Rimini, Octobre 1997. 306-310.
- Priority microcontaminants in biota samples from the Venice lagoon: a selection of concentration data and elements of risk analysis. Proc: DIOXIN 98 18th Symposium on Halogenated Environmental Organic Pollutants. Stockholm Sveden, August 1998. volume 39. 199-204.
- Priority microcontaminants in sediment samples from the Venice lagoon: a selection of concentration data and predominant analytical features. Proc: DIOXIN 98 18th Symposium on Halogenated Environmental Organic Pollutants. Stockholm Sveden, august 1998. Vol. 39.205-210.
- Emission control and standard proposed by the EC for hospital waste incineration. Proc: IVth National symposium Italian Chemical Society (SCI): Chemistry and control of Pollutants in environmental and cultural heritage chemistry. Mantua, July 1998. 103.
- Environmental monitoring in waste to energy. Proc: National symposium Ricicla 98. Rimini, Sept 1998. 37-42.
- Hospital waste incineration. Proc: National symposium "Energy recovery from renewable energy sources:in integrated waste management". Padua, Novembre-Dicembre 1998. 327-336.
- Emission control and standard proposed by Integrated Pollution Prevention Control (IPPC) the EC for waste incineration. Proc: 21st National symposium "The thermal conversion processes". Abano Terme, May 1999. 427-433.
- Review of physics and chemistry of atmospheric particulate matter. Proc: SIDISA 2000, Proc. International Symposium on Sanitary and Environmental Engineering, Trento, September 2000. 457-465
- Analysis of sources emissions and airborne concentration of particulate matter. Proc: ISWA 2000 "Appropriate Environmental and Solid Waste Management and technologies for developing countries". Istanbul, Turkey, July 2000. 2615-2624.
- PCDD And PCDF Contamination levels in air, deposition and soil in Mantua. Proc: DIOXIN 2001 "21th International Symposium on Halogenated Environmental Organic Pollutants and pops". Seoul Korea, Sept 2001. 69-72.
- Analysis of sources emissions and airborne concentration of particulate matter. Proc: ISWA 2002 "Appropriate Environmental and solid waste management.
- A Study on PCDD and PCDF contamination in a case of public concern. Proc: DIOXIN 2002 "22th International Symposium on Halogenated Environmental Organic Pollutants and pops". Barcellona, Spain, 2002. Vol. 59. 381-383.
- Pollutant load release from a cremator to be installed in urban area. Proc: Cereco 2003 "the 4 International Conference on Carpathian Euroregion Ecology". Miskolc-Tapolca, Hungary, April 2003. 90-97.

- Influence of natural source on the aerosol composition: preliminary results of Etna Vulcan. Journal European Aerosol Conference EAC 2003. Madrid, Spain, August-September 2003. S369-370.
- Monitoring of acid emission from waste incinerators: critical aspects in the application of the official method. Proc: Sardinia 2003 9th international waste management and landfill symposium. S. Margherita di Pula (Cagliari), Italy, 5-11 Oct 2003. CISA, Environmental Sanitari Engineering Centre, Italy. Comunicazione su CD-ROM.
- Assessment of the pollutant load from crematoria in urban areas. In New challenges in human health protection: anthropic and remote areas. Proc: XI Italian - Hungarian Symposium on Spectrochemistry. Venice, 19-24 Octobre 2003. Roma: Istituto Superiore di Sanità; 2003. ISTISAN Congressi 03/C3, P.63.
- Two years fine and ultrafine particles measurements in Rome, Italy. Proc: Il AIRNET Annual Conference/Neram International colloquium "Strategies for Clean Air and Health". Rome, Italy, 5-7 Novembre 2003, P.63.
- Air quality control and standard proposed by the EC. Annali Istituto Superiore di Sanità, vol. 39, n. 3 2003. 343-350.
- The feasibility of urban crematoria in Italy. Pharos International official journal of cremation society of great Britain Vol. 74, Spring 2004. 16-19.
- Monitoring trace levels of POP's in atmospheric depositions a rural-industrial area in Southern Italy. Proc: "VIIIth Italian Congress of Environmental and Cultural Heritage Chemistry Division (SCI). Colle Val d'Elsa (Si), 8-11 June 2004. 128.
- Monitoring ambient particles number in Rome. Proc: 1th National symposium Particulate matter: Health and effects. Milan, 12-14 May 2004.
- Treatment of data below the detection limit in the calculation of analytical results. Rapporti Istisan 04/15. Rome, 2004.
- The role of the natural sources in the atmospheric particulate matter composition of an urban area. Proc: 9th FECS Conference and 2nd SFC meeting on Chemistry and the Environment. Bordeaux, Convention Centre, 29 Aug-1 Sept 2004.
- Monitoring ambient air quality as recorded by the monitoring station at the Istituto Superiore di Sanità in 2002. Rapporti Istisan 04/23. Rome, 2004.
- Emission control from electricity production: comparison of natural gas combined cycles (NGCC) with conventional fuel oil power stations. Proc: "La politica energetica in Italia". Bologna, 18-19 April 2005. CD-ROM.
- Urban crematoria pollutant related to the management of the deceased. Microchemical Journal vol. 79. 205. 0307-317.
- 34. Two years fine and ultrafine particles measurements in Rome, Italy. Journal of Toxicology and Environmental Health AIRNET Annual Conference/NERAM International Colloquium. 5-7 Nov 2003. 35-46.
- Crematoria and urban waste incinerators mercury emissions. MBCACV V Mediterranean Basic Conference on Analytical Chemistry. Istisan Congressi 05/C3, 116. Silvi Marina, 24-28 May 2005.
- Electricity production: technologies for emission control from comparison of natural gas combined cycles (NGCC) with conventional fuel oil power stations. Proc: 10th EuCheMS-DCE International conference on Chemistry and the Environment. The Role of Chemistry in the Environment: our Choice, our Life. Research, Education and Professional, and 9th Italian Congress of Environmental and Cultural Heritage Chemistry Division-13th Italian Congress National Council of Chemists. Rimini, 4-9 Settembre 2005. SI-P-14. 188.
- Fine and ultrafine particles measurements in Rome, Italy. Proc: 10th EuCheMS-DCE International conference on Chemistry and the Environment. The Role of Chemistry in the Environment: our Choice, our Life. Research, Education and Professional, and 9th Italian Congress of Environmental and Cultural Heritage Chemistry Division-13th Italian Congress National Council of Chemists. Rimini, 4-9 Sept 2005. SI-P-15. 189.
- Project Istituto Superiore di Sanità-Osservatorio Nazionale sui Rifiuti "Management of some waste types and materials obtained from their recovery/recycling. Health and environmental risk". Final workshop. Rapporto Istisan 05/28. Rome, 2005.
- PCDD, PCDF, AND PCB baseline levels in air near a waste incineration plant site in southern Italy. Proc: DIOXIN 2005 25th Symposium on Halogenated Environmental Organic Pollutants and POPs. CD-ROM of Proceedings of DIOXIN 2005 and EMV-General-Environmental levels. Organohalogen Compounds, Vol. 67: 2083-2085.
- Atmospheric Bulk deposition of carcinogenic PAHs in a rural-industrial area in Southern Italy. Proc: DIOXIN 2005 20th International Symposium on Polycyclic Aromatic Compounds (ISPAC 20. August 21-26, 2005, Toronto, Canada). CD-ROM of Proceedings of DIOXIN 2005 and ISPAC-20 (E. Reiner and M. Alae, Eds.). Organohalogen Compounds, Vol. 67: 2691.
- Study of air quality as recorded by the monitoring station at the Istituto Superiore di Sanità in 2003-2004. Rapporti Istisan 06/13. Rome, 2006.

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- Methods for the determination of arsenic, cadmium, nickel and polycyclic aromatic hydrocarbons in atmospheric depositions. *Rapporti Istisan 06/38*. Rome, 2006.
- Study on environmental levels of organic and inorganic micropollutants within the Mantua area (Italy). *Rapporti Istisan 06/43*. Rome, 2006.
- Atmospheric Bulk deposition of carcinogenic PAHs in a rural-industrial area in Southern Italy. *Polycyclic Aromatic Compounds*, Vol. 26: 253-263, 2006.
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- Health effects related to waste thermal treatment. Proc: WASTE, ENVIRONMENT AND HEALTH 2008 Liquid and gas emissions in waste management Environmental impact Ecotoxicologic and epidemiologic aspects Public health risks Public opinion and decisional conflicts. CD-ROM of Proceedings of WASTE, ENVIRONMENT AND HEALTH 2008 4-5 June 2008. Automatic long term sampling systems for PCDD/PCDF and PCB dioxin like: work on a specific Regulation. Proc: International symposium ECOMONDO. Rimini, 5-8 Novembre 2008. 411-413.
- Air pollution: general problems in the area of Gela. *Epidemiologia & Prevenzione Environment and Health in Gela (Sicily): present knowledge and prospects for future studies*. 33, may-july 2009. 37-42.
- Integrated reduction and prevention of air pollution in Gela: life cycle analysis and dispersion models. *Epidemiologia & Prevenzione Environment and Health in Gela (Sicily): present knowledge and prospects for future studies*. 33, May-July 2009. 37-42.
- Long-term monitoring systems at emissions of dioxins, furans and PCB dioxin like: possibilities about use and evaluation of collected data. *RS Rifiuti Solidi*, vol. XXXIII n. 5. Sept-Oct 2009. 330-334.
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- Evaluation of the temporal variation of air quality in Rome, Italy from 1999 to 2008. *Annali Istituto Superiore di Sanità* 2010. Volume 46. No 3: 242-253.
- Air quality in industrial areas: general problems and results from case studies in Augusta-Priolo, Gela and Milazzo-Valle del Mela in Sicily. Book Human Health in areas with industrial contamination. WHO Regional Office for Europe, Copenhagen, in Press, edited by P. Mudu, B. Terracini and M. Martuzzi.
- Industrial Pollution in petrochemical area and the IPPC Directive: LCA perspectives Book Human Health in areas with industrial contamination. WHO Regional Office for Europe, Copenhagen, in Press, edited by P. Mudu, B. Terracini and M. Martuzzi.
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- Outdoor/indoor particle infiltration factor in Rome and its relation with urban air quality. Proc: European Aerosol Conference in Manchester EAC2011.
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- Indoor air quality: new orientations at national and communitarian level. *Not Ist Super Sanità* 2012;25(5):7-10.
- Sanitary and hygienic aspects in the heat-treatment of wastes by means of incineration. Book International Conference ISWA 2012. Firenze, september 2012.
- National guidelines for indoor air pollution. Book: Facciamo germogliare le nostre idee della III Ecolè di Società Italiane de Chimie SCI. Ispra november 2013.
- Monitoring strategies of biological air pollution in indoor environment. *Rapporti ISTISAN 13/37*. Indoor Pollution Working Group. Rome, 2013.
- Workshop. Issues related to indoor air pollution: current situation in Italy. Istituto Superiore di Sanità. Rome, June 25, 2012. Proceedings. *Rapporti ISTISAN 13/39*.

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- Quality in industrial areas: general problems and results from case studies in the Augusta-Priolo, Gela and Milazzo-Valle del Mela areas. Mudu P, Terracini B, Martuzzi M, eds (2014). *Human Health in Areas with Industrial Contamination*. Copenhagen: WHO Regional Office for Europe. 101-114.
- Industrial pollution in petrochemical area and the IPPC Directive: life-cycle assessment LCA perspectives. Mudu P, Terracini B, Martuzzi M, eds (2014). *Human Health in Areas with Industrial Contamination*. Copenhagen: WHO Regional Office for Europe. 215-229.
- European community guidelines and standards in indoor air quality: what proposals for Italy. *Epidemiologia&Prevenzione Supplemento 2*. Anno 38 (6), novembre-dicembre 2014. 38-41.
- Incense, sparklers and cigarettes are significant contributors to indoor benzene and particle levels. *Annali Istituto Superiore di Sanita* 2015. Vol. 51, No. 1: 28-33.
- Indoor air quality: EU legislation, WHO guidelines, norms (ISO CEN). Workshop. Indoor air quality: current national and European situation. The expertise of the National Working Group on indoor air. Istituto Superiore di Sanità. Rome, May 28, 2014. Proceedings. Rapporto ISTISAN 15/04.
- Monitoring strategies to assess the concentration of airborne asbestos and man-made vitreous fibres in the indoor environment. Rapporto ISTISAN 15/05.
- Assessment of indoor pollution in a school environment through both passive and continuous samplings. *Environmental Engineering and Management Journal*. July 2015, Vol.14, No. 7: 1761-1770.
- Microclimate parameters and indoor air pollution. Rapporto ISTISAN 15/25.
- Atmospheric depositions of persistent pollutants: methodological aspects and values from case studies. *Annali Istituto Superiore di Sanita* 2015. Vol. 51, No. 4: 298 -304.
- Level, potential sources of Polycyclic Aromatic Hydrocarbons (PAHs) in particulate matter (PM10) in Naples. *Atmospheric Environment* (2016) 129. 186-196.
- Social sustainability in healthcare facilities: a rating tool for analyzing and improving social aspects in environments of care. *Annali Istituto Superiore di Sanita* 2016. Vol. 52, No. 1: 15-23.