

PERSONAL INFORMATION

Milena Stracquadanio

-  4, via Martiri di Monte Sole, Bologna, 40129, Italy
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WORK EXPERIENCE

From 04/06/2012 to present

Researcher

ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), 4, via Martiri di Monte Sole, 40129, Bologna, Italy.

- Research on chemical characterization of airborne particulate matter (PM_{10} , $PM_{2.5}$, PM_1) by means of off-line analysis (metals and trace elements, anhydrosugars, water-soluble inorganic ions, carbonaceous aerosol,) and high temporal resolution on-line monitoring (non-refractory organic fraction and secondary ions (ACSM), inorganic ions, carbonaceous aerosol).

Business or sector Research

From 01/01/2008 To 12/10/2010

Research Fellow

University of Bologna, Dipartimento di Chimica Industriale «Toso Montanari», 4, Viale del Risorgimento Bologna, 40136 – Bologna, Italy.

- Research on size distribution of carbonaceous fraction and Water Soluble Organic Carbon (WSOC) in Particulate Matter emitted from waste incinerator within the project “ Moniter Monitoraggio di inceneritori nei territori dell’ Emilia Romagna”

Business or sector Research

From 01/02/2007 To 31/10/2007

University Grant

University of Bologna, Dipartimento di Chimica Industriale «Toso Montanari», 4, Viale del Risorgimento Bologna, 40136 – Bologna, Italy.

- Research on development and validation of analytical method for by-products of the water disinfection processes (chlorite, bromate and chlorate) in water samples. Optimization of analytical method for carbonaceous fraction analysis of airborne particulate matter ($PM_{2.5}$) with Elemental Analysis.

Business or sector Research

From 01/02/2006 To 31/01/2007

Research Fellow

University of Bologna, Dipartimento di Chimica Industriale «Toso Montanari», 4, Viale del Risorgimento Bologna, 40136 – Bologna, Italy..

- Research on chemical characterization of Polycyclic Aromatic Hydrocarbon in airborne particulate matter (PM_{10} , $PM_{2.5}$) within the project “SITECOS (Studio Integrato sul territorio nazionale per la Caratterizzazione e il Controllo di Inquinanti Atmosferici)”

Business or sector Research

From 01/07/2004 To 31/01/2006

Postdoctoral Research Fellow

University of Bologna, Dipartimento di Chimica «G Ciamician», 2, via Selmi, 40126, Bologna, Italy.

- Research on size distribution of Airborne Particulate Matter in dimensional classes between 10 and 0.4 μm within the project “Caratterizzazione Chimico-Fisica del Particolato Atmosferico nelle Classi Dimensionali tra 10 e 0.4 μm ”.

Business or sector Research

From 01/02/2001 to 31/03/2001

Tutor

University of Bologna, Scienze Ambientali, Ravenna, Italy.

- Support to didactic activities in the teaching of the Chemical Analysis Laboratory..

Business or sector Didactic Activity

EDUCATION AND TRAINING

From 01/01/2001 To 31/12/2003

PhD in Environmental Science

University of Bologna, Ravenna, Italy

- Environmental Chemistry, Analytical Chemistry, Organic Chemistry, Statistics, Toxicology, Meteorology. Sampling and analysis of environmental matrices. Skills acquired in planning atmospheric sampling campaign, sampling and analysis of Polycyclic Aromatic Hydrocarbon (PAH), analysis of particulate mercury, statistical analysis of data. Dissertation title: "Inquinamento Atmosferico: Composti Organici Semivolatili e Persistenti". Tutor Prof. Claudio Trombini.

From 06/01/2003 To 06/02/2003

European Research Course on Atmospheres ERCA 2003

University Joseph Fourier, National Center of Scientific Research, Grenoble, France.

- Chemistry, Physics, Geophysics, Climatology and Meteorology.

From 01/01/2001 To 31/12/2003

Degree in Environmental Science

University of Bologna, Ravenna, Italy

- Geology, Biology, Ecology, Inorganic Chemistry, Organic Chemistry, Physics, Programming, Analytical Chemistry, Environmental Chemistry, Statistics, Climatology and Meteorology. Dissertation title: "Studi sull'Inquinamento atmosferico da Idrocarburi Policiclici Aromatici in un Sito Industriale Ravennate." Tutor Prof. Claudio Trombini.

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills gained in presenting the research activity in working group meetings, scientific workshops and congresses.
- Good communication skills in writing scientific reports, acquired preparing dissertation thesis and participating in the drafting of scientific papers.

Organisational / managerial skills

Good skills in organization of research, laboratory and sampling campaign activities.

Job-related skills

- Excellent skills in working in teams.
- Excellent skills in planning of sampling campaigns and experimental activities.

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving

Independent user	Proficient user	Independent user	Independent user	Independent user
Levels: Basic user - Independent user - Proficient user				
Digital competences - Self-assessment grid				

- Excellent command of Microsoft Office™ tools (word processor, spread sheet, presentation software).
- Basic user of Access.
- Good command of Statistica®, working knowledge of R (Free software environment for statistical computing and graphics).
- Good command of photo editing software gained as an amateur photographer (Photoshop, Gimp).

Driving licence AB

ADDITIONAL INFORMATION

Publications Presentations

Publications:

- M. Stracquadanio, E. Dinelli, C. Trombini. "Role of Volcanic Dust in the Atmospheric Transport and Deposition of Polycyclic Aromatic Hydrocarbons and Mercury", Journal of Environmental Monitoring, 2003, 5, 984.
- M. Stracquadanio, D. Bergamini, E. Massaroli, C. Trombini. "Field Evaluation of a Passive Sampler of Polycyclic Aromatic Hydrocarbons (PAHs) in an Urban Atmosphere (Bologna, Italy)", Journal of Environmental Monitoring, 2005, 7(9), 910.
- V. Biancolini, C. Bocchi, F. Cassoni, M. Gambini, D. Paniello, F. Paoli, E. Renna, I. Scaroni, F. Scotto, M. Stracquadanio, L. Tositti, S. Zauli. "Caratterizzazione chimico-fisica del particolato atmosferico nelle classi dimensionali tra 10 e 0.4 µm - (2° Fase) - Relazione tecnica finale" ARPA (Agenzia Regionale Prevenzione e Ambiente) Emilia Romagna - Universita' Degli Studi Di Bologna, Dipartimento di Chimica "G. Ciamician", Ottobre 2005. <http://www.arpa.emr.it/reggioemilia/polvere.htm>
- M. Stracquadanio, C. Trombini. "Gas to particle (PM₁₀) partitioning of Polycyclic Aromatic Hydrocarbons (PAHs) in a typical urban environment of the Po Valley (Bologna, Italy).", Fresenius Environmental Bulletin, 2006, 15(10), 1276.
- M. Stracquadanio, C. Trombini. "Particulate matter, gas-phase and particle-bound Polycyclic Aromatic Hydrocarbons in an urban environment heavily impacted by vehicular traffic (Bologna, Italy).", Annali di Chimica, 2006, 96(7-8), 463.
- M. Stracquadanio, G. Apollo, C. Trombini. "A Study of PM2.5 and PM2.5-Associated Polycyclic Aromatic Hydrocarbons at an Urban Site in the Po Valley (Bologna, Italy)", Water Air and Soil Pollution, 2007, 179(1-4), 227.
- R. Cucchiella, G. Falini, M. Ferri, M. Stracquadanio, C. Trombini. "Mathematical form factor studies on the effect of water on airborne particles morphology using a bi-dimensional TEM image processing", Journal of Environmental Monitoring, 2009, 11, 181.
- L. Tositti, E. Brattich, M. Masiol, D. Baldacci, D. Ceccato, S. Parmeggiani, M. Stracquadanio, S. Zappoli. "Source apportionment of particulate matter in a large city of southeastern Po Valley (Bologna, Italy)", Environmental Science and Pollution Research, 2014, 21, 872.
- A. Malaguti, M. Mircea, T.M.G La Torretta, C. Telloli, E. Petralia, M. Stracquadanio, M. Berico "Chemical Composition of Fine and Coarse Aerosol Particles in the Central Mediterranean Area during Dust and Non-Dust Conditions", Aerosol and Air Quality Research, Aerosol and Air Quality Research, 2015, 15, 410.
- A. Malaguti, M. Mircea, T. M. G La Torretta, C. Telloli, E. Petralia, M. Stracquadanio, M. Berico "Comparison of online and offline methods for measuring fine secondary inorganic ions and carbonaceous aerosols in the Central Mediterranean area". Aerosol and Air Quality Research, 2015, 15, 2641.
- Berico M., Petralia E., Malaguti A., La Torretta T. M. G, Telloli C., Stracquadanio M., 2015. Real time measurements using aerosol surface instruments and comparison with high time-resolved aerosol chemical composition measurements at a suburban site in Bologna during winter and summer periods. RT/2015/9/ENEA, <http://www.enea.it/it/produzione-scientifica/rapporti-tecnici>

Presentation and Poster:

- "Studi sulla Qualità dell'Aria in un Sito Industriale Ravennate" M. Stracquadanio, C. Trombini, I. Vassura. XX Congresso Nazionale della Società Chimica Italiana, Rimini, 4-9 June 2000, AM-PO 085.

- "Developing New Methodologies for Semivolatile PAHs Sampling in The Atmosphere" E. Massaroli, M. Stracquadanio, C. Trombini. Oxygenated Organics in the Atmosphere- Source, Sinks and Atmospheric Impact. Como, 5-7 October, 2001, Proceedings
- "Interazione degli IPA con il Particolato Atmosferico e con Superfici Lipofile: uno studio in Area Urbana" M. Stracquadanio, D. Bergamini, G. Apollo, C. Trombini. XXI Congresso Nazionale della Società Chimica Italiana, Torino, 22-27 June 2003, AM-CO 037.
- "PM₁₀, PM_{2.5} ed Idrocarburi Policiclici Aromatici (IPA) in Area Urbana Bolognese" M. Stracquadanio, D. Bergamini, G. Apollo, G. Falini, C. Trombini. 1° Convegno Nazionale sul Particolato Atmosferico, Milano, 12-14 May 2004, B30
- "Il PM_{2.5} in un sito del centro storico di Bologna" G. Apollo, M. Stracquadanio, C. Trombini. Ecomondo 2004, Rimini, 3-6 November 2004
- "Messa a punto di metodologie analitiche per la determinazione del carbonio in aerosol atmosferico con analizzatori elementari (CHN e TOC)" S. Zappoli, V. Benedetti, G. Mailhot, A. Marinoni, C. Spadoni, M. Stracquadanio, L. Tositti. 2° Convegno Nazionale Sul Particolato Atmosferico PM2006, Firenze, 10-13 September 2006, PM2-P-49
- "Analisi della componente carboniosa nel PM₁₀ e nel PM_{2.5} nell'area urbana di Bologna" D. Baldacci, V. Benedetti, S. Parmeggiani, M. Stracquadanio, L. Tositti, S. Zappoli. X Congreso Nazionale Di Chimica Dell'ambiente E Dei Beni Culturali, Acaya, Vernole (Lecce), 11 - 15 June 2007, QP01
- "Determinazione degli idrocarburi policiclici aromatici nell'area urbana di Bologna: conferme e anomalie" D. Baldacci, A. Musetti, S. Parmeggiani, M. Stracquadanio, L. Tositti, S. Zappoli. X Congreso Nazionale Di Chimica Dell'ambiente E Dei Beni Culturali, Acaya, Vernole (Lecce), 11 - 15 June 2007, QP02
- "Ciclo giorno - notte di composti carbonilici nell'area urbana di Bologna" Benedetti, E. Errani, B. Fabbri, I. Gualandi, V. Poluzzi, I. Ricciarelli, M. Stracquadanio, S. Zappoli. X Congreso Nazionale Di Chimica Dell'ambiente E Dei Beni Culturali, Acaya, Vernole (Lecce), Italy, 11 - 15 June 2007, QP03
- "Speciazione inorganica di particolato atmosferico PM10 e PM2.5 nella citta' di Bologna durante il progetto SITECOS" L. Tositti, D. Baldacci, S. Parmeggiani, S. Zappoli, M. Stracquadanio, D. Ceccato. X Congreso Nazionale Di Chimica Dell'ambiente E Dei Beni Culturali, Acaya, Vernole (Lecce), 11 - 15 Giugno 2007, QP38
- "Experimental evidence of Saharan dust transport and interactions with aerosol chemical species at ground level during Trisaia campaign (May-June 2010)." A. Malaguti, T. M. G. La Torretta, M. Stracquadanio, C. Telloli, E. Petralia, M. Mircea, M. Berico and G. Zanini. 7th International Workshop on Sand/Dust storms and Associated Dustfall, Frascati (Rome), Italy, 2-4 December 2013.
- "Analisi di Anidrozuccheri, Frazione Carboniosa e Ioni Inorganici Solubili sul Particolato Emesso da Sistemi di Riscaldamento a Biomassa Solida: Studio Preliminare". M. Stracquadanio, T. M. G. La Torretta, L.A. Stante, A. Malaguti, C. Telloli, E. Petralia, R. Nuzzi, M. Berico, F. Hugony, M. Gualtieri, G. Migliavacca, C. Morreale. 6th "Convegno Nazionale sul Particolato Atmosferico" PM2014, Genova, Italy, 20-23 May 2014.
- "Estimation of biomass burning contribution to PM_{2.5} using the Aerosol Chemical Speciation data (ACSM) and levoglucosan concentration." M. Stracquadanio, E. Petralia, M. Berico, T. LaTorretta, A. Malaguti, G. Cremona, M. Mircea, L. Ciancarella. TECH-AIR 2016 -Application of Non-Conventional Analytical TECHniques to Atmospheric PartIculate MatteR, Lecce, Italy, November 7th 2016, P15.