

## CURRICULUM VITAE



### PERSONAL INFORMATION

Name  
Address  
Phone  
Fax  
E-mail  
  
Nationality  
Born  
Mother tongue  
Other languages

**DANIELE CONTINI**

Istituto di Scienze dell'Atmosfera e del Clima, Consiglio Nazionale delle Ricerche  
Str. Prv. Lecce-Monteroni km 1.2, 73100, Lecce, Italy.

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d.contini@isac.cnr.it

Italian

Italian

English: excellent knowledge (reading, writing and conversation)

French: school level



### PROFESSIONAL EXPERIENCE

01/03/2019 – now  
01/01/2009 – 28/02/2019

**Research Director** (I Level) at Istituto di Scienze dell'Atmosfera e del Clima (ISAC-CNR).

**Head of the division of Lecce section** of the Istituto di Scienze dell'Atmosfera e del Clima (ISAC-CNR).

01/01/2007 – 28/02/2019  
28/12/2001 – 31/12/2006  
15/03/1999 – 26/12/2001

**Senior Researcher** (II Level) at Istituto di Scienze dell'Atmosfera e del Clima (ISAC-CNR).

**Researcher** (III Level) at Istituto di Scienze dell'Atmosfera e del Clima (ISAC-CNR).

Research fellow at the Dipartimento di Energetica "Sergio Stecco", Università degli Studi di Firenze.

1998

Research assistant at the Centro di Ricerca Interuniversitario di Aerodinamica delle Costruzioni ed Ingegneria del Vento (CRIACIV) for simulation of pollutant dispersion in atmosphere.

1996 (3 months)

Working at ECOSYSTEM s.a.s. for the design and development of a database to store and analyze data concerning water pollution.

01/11/1994 – 15/04/1995

Research assistant at the Dipartimento di Fisica dell'Università degli Studi di Firenze, to study the maximum spatial resolution obtainable with optical imaging techniques of turbid media.

### AWARDS

2022 – up to now

**Chair of the Working Group** "Atmospheric Aerosol Studies" of European Aerosol Assembly (EAA).

2021

**Best presentation award** at the 4th International Electronic Conference on Atmospheric Sciences (ECAS2021).

2018 – up to now

**President** of the Italian Aerosol Society (IAS).

2018

**Abilitation (Abilitazione Scientifica Nazionale)** for Professorship (First Level) sector 02/C1 – Astronomy, Astrophysics, Physics of Earth and planets.

2012

**Abilitation (Abilitazione Scientifica Nazionale)** for Professorship (First Level) sector 04/A4 – Geophysics (DD n. 222/2012).

2009

**CNR Award** "Staff incentives" for the innovative results of particular excellence and strategic importance obtained in 2005.

2006

**Award ANIV2006** of the Associazione Nazionale di Ingegneria del Vento for the best scientific article by a young researcher (Contini & Robins, *Atm Env.* 38, pp. 3573-3583, 2004).

Invited speaker

1994

Talk at the Conference of the Associazione Italiana di Fisica Biomedica (AIFB), Pisa 1994.

1996

Talk at the 28° EGAS Conference, Graz 1996.

2007	Talk at the Workshop "Interdisciplinarietà dei problemi ambientali", Lecce 2007.
2008	Talk at the International Workshop "Surface/Atmosphere Exchange of Atmospheric Aerosols: Measurement, Quantification, Processes and Parameterisation (Accent/Biaflux), Edimburgo, 2-4 October 2008.
2017	Talk at the Workshop "Challenges of clean and efficient transport in the Alpine and Adriatic-Ionian regions", JRC, Ispra Site, October 2017.
2019	Talk at the Conference "VII Incontri Mediterranei – Inquinamento indoor e outdoor: valutazione dei rischi, figure e competenze" organised by AIDII (Associazione Italiana degli Igienisti Industriali) held in Lamezia Terme 3-4 October 2019.
2020	Talk at the 106° National Congress of the Italian Physics Society (SIF), held online 14-18 September 2020.
2020	Talk at the Festival of Meteorology 2020, held online 14/9/2020.
2020	Talk at the Workshop LeBiotech2020 "Ricerca e innovazione nelle biotecnologie", organized by the University of Salento, 28/9/2020.
2022	Invited Keynote at the conference ECAS2022 5th International Electronic Conference on Atmospheric Sciences, organised by MDPI online.
2023	Invited talk at the national Workshop "Glonal Health: una sfida per il futuro. Catanzaro April 2023. organised by AIDII (Associazione Italiana degli Igienisti Industriali).
2023	Invited plenary talk at the 5th International Conference on Atmospheric Dust (DUST2023), organised by the Italian Association for Clays, Bari May 2023.
2023	Invited talk at IX edizione Incontri Mediterranei di Igiene Industriale – Inquinanti negli ambienti di vita e di lavoro: esposizione, effetti sulla salute e sul clima globale 19-20 October 2023, Lecce (Italy).

## EDUCATION

1999	<b>Ph.D. (Dottorato di Ricerca)</b> in Energetics, XI cycle at Dipartimento di Energetica "Sergio Stecco", 'Università degli Studi di Firenze. Thesis title: "Study of the diffusion of gaseous pollutants on reduced scale models in the wind tunnel".
1994	<b>First Degree (Laurea) in Physics</b> , Università degli Studi di Firenze, mark: 110/110. Thesis title: "Imaging of very turbid media: applications to the optics of biological tissues".

## FELLOWSHIPS AND PERIODS ABROAD

06/09/2003 – 05/11/2003	<b>Visiting Researcher</b> at Environmental Flow Research Centre, University of Surrey (Guildford, UK). Period financed by a "Senior Fellowship" CNR-NATO scholarship in the field of the exact sciences of the Earth and Environmental Sciences sector for the project: "Structure and trajectories of plumes released by a two chimneys configuration in a turbulent crossflow".
2000-2001	<b>Visiting Researcher</b> (21 weeks) at the Environmental Flow Research Center, University of Surrey (Guildford, UK) for studies on the scale modeling of the dispersion of pollutants in the wind tunnel.
1999	<b>Research period</b> (5 weeks) at the Environmental Flow Research Center (University of Surrey, Guildford, UK) funded by the European Training and Mobility of Researchers (TMR) program.
1997-1999	<b>Study periods</b> (34 weeks) at the Environmental Flow Research Center at the University of Surrey (Guildford, UK) supported by the Conference of Italian University Rectors (CRUI) and the British Council through the Italian-British collaboration program for research and higher education.
1995	<b>Post-graduated fellowship</b> (7 months) as part of the European Community project called: Human Capital and Mobility (HCM), at the Applied Optics Section of the Imperial College of Science, Technology and Medicine (University of London) to study mathematical models, based on the approximation of diffusion, to describe the transport of laser radiation through turbid means.

## SCIENTIFIC AND PROFESSIONAL INTERESTS

His research activity is mainly experimental and focused on atmospheric sciences. Currently, research interests could be summarized in four main lines:

- Identification and characterization of atmospheric particulate matter sources, using both high-resolution temporal measurements and receptor models based on the chemical composition of the particulate, and their spatial and temporal trends.

## MANAGEMENT AND ORGANISATIONAL SKILLS AND COMPETENCES

### Responsibility of CNR structures

01/01/2009 – 28/02/2019

18/12/2014 – now

18/12/2014 – now

18/12/2014 – now

12/11/2009 – 2019

01/01/2006 – now

2020 - now

2019 - now

### Responsibility in research and technology transfer projects

2022

(30 months)

2020

(12 months)

2019

(12 months)

2018

(30 months)

2019

(38 months)

2018

(18 months)

- Health and toxicological effects of atmospheric particulate matter due to both natural and anthropogenic sources.
- Study of atmospheric particulate dynamics in the surface boundary layer with particular attention to emission and deposition processes.
- Analysis and parameterization of the dispersion of atmospheric pollutants also using physical modeling on a reduced scale in a wind tunnel and / or in a hydraulic vein.

Throughout his career he has established numerous and successful research collaborations with leading international groups in the field of atmospheric and climate sciences.

**Head of Division**, division (UOS) of Lecce of the Istituto di Scienze dell'Atmosfera e del Clima (ISAC-CNR). The division had, in 2017, 20 units of structured staff and 5 units of contract staff. The UOS manages several experimental facilities (fixed and mobile) and a computer center.

**Responsible of the Environmental-Climate Observatory (ECO)** at the Lecce UOS of ISAC-CNR, regional station of the GAW-Global Atmosphere Watch network and national station of the ACTRIS network.

**Responsible of the Analysis and characterisation of particulate matter laboratory** at the UOS of Lecce of ISAC-CNR.

**Responsible of analytical microbalance laboratory** at the UOS of Lecce of ISAC-CNR.

**Scientific coordinator for management of the cluster** for parallel calculation at the UOS of Lecce of ISAC-CNR.

**Responsible of the mobile laboratory** for environmental measurements at the UOS of Lecce of ISAC-CNR.

**Member** of the "Rete di Referenti per la Programmazione degli Acquisti di beni e servizi delle Strutture CNR" representing ISAC-CNR. Since 2019 **abilitation for the National Register of the RUP of the CNR**. D. Contini participated in several CNR purchase tenders with different functions including RUP (responsible for the procedure), evaluator of technical offers, and director of contract execution.

**Coordinator** of the strategic research area of ISAC-CNR "Atmospheric composition, climate forcing and air quality".

Project ITINERIS- Italian Integrated Environmental Research Infrastructures System. Funded within "Avviso n. 3264 del 28/12/2021 "Rafforzamento e creazione di IR nell'ambito del Piano Nazionale di Ripresa e Resilienza (PNRR)". Budget 155,208,808.81 Euro. Budget of the Research Unit ISAC-CNR (Lecce) 4,047,296.4 Euro. **Role: responsible of research unit.**

Research Contract "Analisi della distribuzione spaziale e temporale del particolato atmosferico nel salento con campionatori portatili a bassa risoluzione temporale" funded by Fai Instruments S.r.l. Budget 12,500 Euro. **Role: responsible of activities.**

Research contract "Contributo della centrale termoelettrica Federico II alle concentrazioni di PM2.5 nel Salento" funded by Enel Produzione SpA. Budget 50,000 Euro. **Role: principal investigator.**

Project "Sviluppo di tecnologie innovative di Osservazione della Terra per lo studio del Cambiamento Climatico e dei suoi impatti su ambiente e territorio (OT4CLIMA)" funded by MIUR, PON Cluster 2014-2020, RICERCA INDUSTRIALE E SVILUPPO SPERIMENTALE, area di specializzazione: Aerospazio. Budget ISAC-CNR 303,175 Euro. **Role: scientific coordinator for partner ISAC-CNR.**

Project "Potenziamento della componente italiana della Infrastruttura di Ricerca Aerosol, Clouds and Trace Gases Research Infrastructure (PER-ACTRIS)". Funded by Ministero dell'Istruzione dell'Università e della Ricerca (MIUR) - Avviso per la concessione di finanziamenti finalizzati al potenziamento di infrastrutture di ricerca, in attuazione dell'Azione II.1 del PON Ricerca e Innovazione 2014-2020. Budget 19,998,000.33 Euro. **Role: scientific coordinator for objective 6 (Trace Gases).**

Project "Paper Analyser for Particulate Exposure Risk (PAPER)", funded by POR Puglia FESR-FSE 2014-2020 - Asse I - Azione 1.6, INNONETWORK - Aiuti a sostegno alle Attività di R&S".

	Budget 1,593,887.71 Euro, Budget ISAC-CNR 178,275.00 Euro. <b>Role: scientific coordinator for partner ISAC-CNR.</b>
2018 (18 months)	Project "ECOLOGICAL supporting for traffic Management in coastal areas By using an Intelligent sYstem (ECOMOBILITY)", Interreg Italy-Croatia 2014-2018. Budget 830,000 Euro. Budget ISAC-CNR 100,000 Euro. <b>Role: scientific coordinator for partner ISAC-CNR.</b>
2017 (9 months)	Research contract within project "Integrated System for the Assessment of Environmental impacts in transport Logistics (ISMAEL)", funded by DBA Lab SpA. Budget 55,000 Euro. <b>Role: principal investigator.</b>
2016-2017 (12 months)	Research contract "Studio per analisi del contributo della centrale termoelettrica Brindisi Sud alle concentrazioni di particolato atmosferico" funded by Enel Produzione SpA. Budget 102,000 Euro. <b>Role: principal investigator.</b>
2016-2017 (24 months)	Research contract between ISAC-CNR and Centro Salute-Ambiente of the Regione Puglia for activities within the project Jonico-Salentino. Budget 70,000 Euro. <b>Role: coordinator of Work-Package. Inizio 5/3/2016-4/3/2018.</b>
2015 (3 months)	Research contract "Applicazione metodologia di source apportionment del particolato atmosferico PM10 nell'area di Brindisi" funded by Enel Produzione SpA. Budget 37,000 Euro. <b>Role: principal investigator. 1/8/2015-31/12/2015.</b>
2015 (7 months)	Research contract "Ottimizzazione di profili di sorgente e validazione modello CAMx su un caso studio" funded by Enel SpA, Ingegneria e Ricerca. Budget 19,200 Euro. <b>Role: principal investigator.</b>
2014-2015 (12 months)	Project: Pollution monitoring of Ship Emissions: an Integrated approach for harbours of the Adriatic basin – POSEIDON. European Territorial Cooperation MED 2007-2013. Budget 359,460 Euro, budget ISAC-CNR 104,460 Euro. Website: <a href="http://www.medmaritimeprojects.eu/section/poseidon">http://www.medmaritimeprojects.eu/section/poseidon</a> . <b>Role: principal investigator (PI). 1/6/2014-31/05/2015</b>
2014 (3 months)	Research contract "Applicazione della metodologia di source apportionment alla centrale di Torrealvaldiga Nord" funded by ENEL SpA, Unità di Business di Civitavecchia. Budget 25,000 Euro. <b>Role: principal investigator.</b>
2014 (13 months)	Research contract "Validazione e ottimizzazione del metodo integrato di source apportionment", funded by Enel SpA, Ingegneria e Ricerca. Budget 64,000 Euro. <b>Role: principal investigator.</b>
2012 (8 months)	Research contract "Attività di ricerca sperimentale riguardante la valutazione del contributo di inquinamento, da particolato atmosferico e gas, delle navi nell'area del porto turistico di Venezia". funded by IDPA-CNR on behalf of the Venice Port Authority. Budget 100,000 Euro. <b>Role: scientific coordinator for partner ISAC-CNR. 1-2-2017 al 31/12/2017</b>
2012-2013 (23 months)	Project "Prodotti, metodologie e tecnologie originali e sostenibili per la diagnostica e la conservazione dell'edilizia storica (PROMETEOS)" funded by P.O. PUGLIA FESR 2007-2013, LINEA 1.2 – AZIONE 1.2.4 - BANDO "AIUTI A SOSTEGNO DEI PARTENARIATI REGIONALI PER L'INNOVAZIONE". Budget: 1,331,030.35 Euro, budget ISAC-CNR 125,377.72 Euro. <b>Role: scientific coordinator for partner ISAC-CNR. 29/05/2012 – 28/04/2014</b>
2012-2015 (41 months)	Project "Infrastruttura di Alta tecnologia per il monitoraggio Integrato Climatico-Ambientale (I-AMICA)", PONA3_00363, funded by Programma Operativo Nazionale Ricerca e Competitività 2007-2013, Asse I Sostegno ai mutamenti strutturali. I-AMICA ( <a href="http://www.i-amica.it">www.i-amica.it</a> ). Budget: 20,650,000.00 Euro. Budget for activities ISAC-CNR (UOS di Lecce): 2,941,343.00 Euro. <b>Role: manager for the division of Lecce of ISAC-CNR and Responsible of the Training Objective 3 of the project. 1/1/2012 – 31/05/2015</b>
2011-2013 (31 months)	Project "Contribution of Emission Sources on the Air quality of the Port-cities in Greece and Italy (CESAPO)", Interreg Greece-Italy 2007-2013, <a href="http://www.cesapo.upatras.gr">www.cesapo.upatras.gr</a> . Budget 816.250,00 Euro, budget ISAC-CNR 187,000.00 Euro. <b>Role: scientific coordinator for partner ISAC-CNR. 1/11/2011-30/04/2014.</b>
2012-2013 (24 months)	Project "Artide ed Antartide: influenza dello strato limite atmosferico sul clima (ABLCLIMAT)", Programma Nazionale di Ricerca in Antartide (PNRA), n. 2009/A3.02. Budget 105,000 Euro. <b>Role: coordinator of research unit.</b>
2009-2011 (24 months)	Project "Applied Innovation Technologies for Diagnosis and Conservation of Built Heritage (A.I.Te.C.H.)". Rete di Laboratori Pubblici di Ricerca nell'ambito dell'Accordo di Programma Quadro in materia di ricerca scientifica tra Ministero dello Sviluppo Economico, Ministero dell'Università e della Ricerca e Regione Puglia. Website: <a href="http://www.aitech.net.com/">http://www.aitech.net.com/</a> . Budget 1,989,366 Euro. Budget ISAC-CNR 131,000 Euro. <b>Role: scientific coordinator for partner ISAC-CNR.</b>
2009 (1 month)	Research contract "Pre-processing ed analisi dati meteorologici per simulazioni modellistiche e post-processing di dati simulati" funded by University of Salento. Budget: 6,000 Euro. <b>Role: scientific responsible.</b>

2009 (8 months)	Research contract "Caratterizzazione del contributo emissivo di particolato fine da parte delle navi nel porto di Venezia". Funded by CNR-IDPA on behalf of the Venice Port Authority. Budget 70,000 Euro. <b>Role: scientific responsible.</b>
2009 (12 months)	Research contract "Campagna straordinaria di valutazione dell'impatto degli impianti di conferimento RSU", funded by Lecce Province. Budget 30,000 Euro, Budget ISAC-CNR 10,200 Euro. <b>Role: scientific coordinator for partner ISAC-CNR.</b>
2006-2008 (24 months)	Project: I3.101.023 ERESIA, Agenzia Interregionale per il Monitoraggio e la Salvaguardia Ambientale Satellitare - (Interreg IIIA Italia-Grecia). Budget 1,000,000 Euro, budget ISAC-CNR 260,000 Euro. <b>Role: coordinator of Work-Package.</b>
2006-2008 (36 months)	Project "Caratterizzazione degli inquinanti presenti nell'atmosfera e delle relative ricadute nel territorio Provinciale". Funded by Province of Lecce. Budget ISAC-CNR: 180,000 Euro. <b>Role: coordinator of experimental activities.</b>
2006-2008 (36 months)	Project "CCT Impresambiente nel settore del rischio ambientale per la promozione dell'innovazione tecnologica e della competitività delle imprese". Funded by Programma Operativo nazionale 2004-2006 (PON 2004-2006). Avviso 1854/06. Misura II.3 "Centri di Competenza Tecnologica". Budget 8,086,565 Euro. <b>Role: scientific coordinator for partner ISAC-CNR.</b>
2004-2006 (36 months)	Project "Caratterizzazione chimico-fisica dell'aerosol antartico e processi di rimozione". Funded by Programma Nazionale di Ricerche in Antartide (PNRA), project n. 6.7/2004. Budget 240,000 Euro. Budget research unit: 103,200 Euro. <b>Role: coordinator of research unit.</b>
2004-2006 (36 months)	Project: "Sviluppo di un sistema integrato - Modellistica Numerica-Strumentazione e Tecnologie Avanzate - per lo studio e la previsione del trasporto e della diffusione di inquinanti in Atmosfera. project n. 245 funded by MIUR. Budget ISAC-CNR 500,000 Euro. <b>Role: responsible of Work Package.</b>
<u>Responsibility in the management of contracted personnel</u>	
During the various projects he was responsible for personnel classified in different types of contracts:	
<ul style="list-style-type: none"> <li>• 11 research fellows for a total of 186 month/person;</li> <li>• 6 research assistants for a total of 36 month/person;</li> <li>• 3 CNR bursaries for a total of 96 month/person.</li> </ul>	
<u>Scientific/Organizing Committees of Conferences and Workshops</u>	
2025	<b>Chair of the European Aerosol Conference 2025 (EAC2025)</b> that will be held in Lecce (Italy), 31 August-05 September 2025.
2023	European Aerosol Conference 2023 (EAC2023), 3-8 September 2023 Malaga (Spain). <b>Member of the Program Committee.</b>
2023	Conference IX edizione Incontri Mediterranei di Igiene Industriale – Inquinanti negli ambienti di vita e di lavoro: esposizione, effetti sulla salute e sul clima globale 19-20 October 2023, Lecce (Italy). <b>Member of the Scientific Committee.</b>
2023	The 6th International Electronic Conference on Atmospheric Sciences (ECAS2023, online). <b>Session Chair.</b> World Conference on Public Health and Epidemiology 18-19 May 2023, Barcelona (Spain). <b>Member of the Organising Committee.</b>
2022	International Aerosol Conference 2022 (IAC2022) 4 - 9 September 2022, Athens (Greece). <b>Member of the International Program Committee and Chairman.</b>
2022	9th IMEKO TC19 Symposium on Environmental Instrumentation and Measurements. June 2-3, 2022, Le Mans (France). <b>Member of the International Program Committee.</b>
2022	5th International Electronic Conference on Atmospheric Sciences (ECAS2022), 16–31 Jul 2022 online. <b>Member of the Conference Committee and Chair</b> of the session on Air Quality and Human Health.
2022	10th National Congress on Atmospheric Particulate (PM2022), Italian Aerosol Society, held in Bologna, May 2022. <b>Member of the Scientific Committee and Chairman.</b>
2022	Workshop on Aerosol Optical properties, organised by IAS, Milan 2021, <b>Member of the Organising and Scientific Committee.</b>
2022	7th International Conference on Energy Engineering and Environmental Protection (EEEP2022), Zhuhai, 19-21 Nov. 2022, <b>Member of the Technical Program Committee.</b>

2021	Mediterranean Geosciences Union Annual Meeting (MedGU-21), Istanbul, Turkey, 25–28 November 2021, <b>Member of the Scientific Committee.</b>
2021	European Aerosol Conference 2021 (EAC2021) 30 August - 3 September 2021 (online). <b>Member of the Program Committee and Chairman.</b>
2021	4th International Electronic Conference on Atmospheric Sciences (ECAS2021), 16–31 Jul 2021 online. <b>Member of the Conference Committee and Chair</b> of the session on Air Quality and Human Health.
2021	6th International Conference on Energy Engineering and Environmental Protection (EEEP2021), 16-17 Nov. 2021, online, <b>Member of the Technical Program Committee.</b>
2020	3rd Conference of the Arabian Journal of Geosciences (CAJG), held online, on 2–5 November 2020. <b>Member of the Scientific Committee.</b>
2020	European Aerosol Conference 2020 (EAC2020) Aachen 30 August-4 September 2020. <b>Member of the Program Committee and Chairman.</b> Co-organiser of the Special Session “Contributions of aerosol sources to health impacts and their indicators”.
2020	9th National Congress on Atmospheric Particulate (PM2020), Italian Aerosol Society, held in Lecce, October 2020. <b>Chair of the Scientific Committee and Chairman.</b>
2020	Third International Workshop on Environment and geoscience (IWEG 2020), July 18-20 2020, Hangzhou. <b>Member of the Scientific Committee.</b>
2020	Imeko TC-19 International Workshop on Metrology for the Sea, Naples 5-7 October 2020. <b>Member of the International Program Committee.</b>
2020	Fifth International Conference on Energy Engineering and Environmental Protection (EEEP2020), Xiamen 17-19 Nov. 2020, <b>Member of the Technical Program Committee.</b>
2019	Conference “VII Incontri Mediterranei – Inquinamento indoor e outdoor: valutazione dei rischi, figure e competenze” organised by AIDII (Associazione Italiana degli Igienisti Industriali) held in Lamezia Terme 3-4 October 2019. <b>Member of the Scientific Committee.</b>
2019	European Aerosol Conference 2019 (EAC2019) held in Gothenburg 25-30 August 2019. <b>Member of the Program Committee and Chairman.</b>
2019	VII CONVEGNO NAZIONALE AGENTI FISICI “Monitoraggio ambientale: dalla produzione all’analisi del dato” held in Stresa, June 2019. <b>Member of the Scientific Committee.</b>
2019	International Workshop “PM Oxidative Potential: response of acellular assays to predict PM-induced oxidative stress activity, organised by IAS in Ferrara (July 2019). <b>Member of the Scientific Committee.</b>
2019	8th IMEKO TC19 Symposium on Environmental Instrumentation and Measurements. October 29-30, 2019, Sfax (Tunisia). <b>Member of the International Program Committee.</b>
2018	8th National Congress on Atmospheric Particulate (PM2018), Italian Aerosol Society, that will be held in Matera, May 2018. <b>Member of the Scientific and Organising Committees.</b>
2017	International IMEKO TC19 Workshop on Metrology for the Sea, Naples, October 11 - 13, 2017. <b>Member of the International Program Committee.</b>
2017	International Conference on Energy Development and Environmental Protection (EDEP2017), August 18-20, 2017. <b>Member of the Technical Program Committee.</b>
2016	Symposium “SITUAZIONE LEGISLATIVA, ASPETTI TOSSICOLOGICI E CONOSCENZA SCIENTIFICA SULLE NANOPARTICELLE AERODISPERSE”, 23/11/2016, Milano, Italy. <b>Member of the Scientific Committee.</b>
2016	Workshop “Application of Non-Conventional Analytical TECHniques to Atmospheric Particulate MatteR (TECH-AIR2016)” organised by Italian Aerosol Society (IAS). 7/11/2016, Lecce, Italy. <b>Member of the Scientific Committee and chairman.</b>
2016	6th IMEKO TC19 Symposium on Environmental Instrumentation and Measurements. June 24-25, 2016, Reggio di Calabria (Italy). <b>Member of the International Program Committee.</b>
2016	18th International Conference on Science, Society and Culture (ICSSC2016), 15-16 September 2016, Roma, Italia. <b>Member of the International Scientific Committee.</b>
2016	7th National Congress on Atmospheric Particulate (PM2016), Italian Aerosol Society, 17-20 maggio 2016, Roma. <b>Member of the Scientific Committee and chairman.</b>
2015	International Conference on Environmental Engineering and Remote Sensing (EERS2015) 23-24 August 2015, Phuket, Thailand. <b>Member of the International Scientific Committee.</b>
2015	European Aerosol Conference (EAC2015), Milano 4-9 September 2015 <b>Member of the Organising Committee and chairman.</b>
2015	Workshop “Osservatorio Climatico-Ambientale di Lecce: attività, potenzialità e prospettive future”, Lecce 23/04/2015. <b>Member of the organising committee and chairman.</b>

2014	5th IMEKO TC19 Symposium on Environmental Instrumentation and Measurements. September 23-24, 2014, Chemnitz (Germany). <b>Member of the International Program Committee and chairman.</b>
2014	6th National Congress on Atmospheric Particulate (PM2014), Italian Aerosol Society, 20-23 maggio 2014, Genoa. <b>Member of the Scientific Committee and chairman.</b>
2014	International Workshop "The impact of port and maritime activities on the air quality of the cities of Patras and Brindisi". Patras, 30-31 gennaio 2014. <b>Member of the Scientific Committee.</b>
2013	International Workshop "Characterization of atmospheric pollution in harbour areas", Lecce 26/06/2013. <b>Member of the Scientific Committee and chairman.</b>
2013	Seminari Scientifici: Metodologie avanzate per caratterizzare l'inquinamento atmosferico nelle aree portuali, Lecce 15/05/2013. <b>Member of the organising committee and chairman.</b>
2013	International Workshop on Physical Modelling of Flow and Dispersion Phenomena – PHYSMOD 2013, Guildford, UK, 16-18 September 2013. <b>Member of the Scientific Committee and chairman.</b>
2013	4th IMEKO TC19 Symposium on Environmental Instrumentation and Measurements, Lecce, 3-4 June 2013. <b>Member of the International Program Committee and chairman.</b>
2012	5° Convegno Nazionale sul Particolato Atmosferico, PM2012, Perugia, 16-18 Maggio 2012. <b>Member of the Scientific Committee and chairman.</b>
2012	Workshop "Black carbon and organic carbon. State of the art and issues for environmental policy", Italian Aerosol Society (IAS), Bologna, 27 September 2011. <b>Member of the Scientific and organising Committee.</b>
2011	International Workshop on Physical Modelling of Flow and Dispersion Phenomena – PHYSMOD 2011, Hamburg, Germany, 22-24 August 2011. <b>Member of the Scientific Committee and chairman.</b>
2010	Conference "Environmental and Geological Science and Engineering (EG'10)", WSEAS, Costantza (Romania), 3-5 September 2010. <b>Member of the International Scientific Committee.</b>
2010	4° Convegno Nazionale sul Particolato Atmosferico, PM2010, Venezia, May 2010. <b>Member of the Scientific Committee and chairman.</b>
2009	International Workshop on Physical Modelling of Flow and Dispersion Phenomena – PHYSMOD 2009, Bruxelles, Belgium, August 2009. <b>Member of the Scientific Committee and chairman.</b>
2008	Conferenza "Environmental and Geological Science and Engineering (EG'08)", WSEAS, Malta, 11-13 September 2008. <b>Membro dell'International Scientific Committee.</b>
2007	International Workshop on Physical Modelling of Flow and Dispersion Phenomena – PHYSMOD 2007, Orleans, France, 29-31 August 2007. <b>Member of the Scientific Committee and chairman.</b>
2005	International Workshop on Physical Modelling of Flow and Dispersion Phenomena – PHYSMOD 2005, London, Western Ontario, 24-26 August 2005. <b>Member of the Scientific Committee.</b>
2003	International Workshop on Physical Modelling of Flow and Dispersion Phenomena – PHYSMOD 2003, Prato, Italy, 3-5 September 2003. <b>Member of the Scientific Committee and chairman.</b>
2000	XVth Bi-Annual Symposium on Measuring Techniques in Transonic and Supersonic Flow in Cascades and Turbomachines – 21 - 22 September 2000, Firenze. <b>Member of the Organising Committee.</b>

Responsibility of collaboration agreements

- Referent for CNR of the scientific collaboration agreement between the Department of Earth System Science and Environmental Technologies of the CNR and the Leibniz Institute for Tropospheric Research (Germany), 2013.
- Scientific responsible for ISAC-CNR of the agreement for the management of atmospheric profiling instrumentation between the CNR Institute of Atmospheric Sciences and Climate and the Institute of Methodologies for Environmental Analysis of the CNR, 2014.
- Responsible CNR for the agreement between the Department of Chemistry of the University of Bari and ISAC-CNR for a three-year duration to promote traineeships for training and orientation for students, 2014.
- Responsible CNR for the agreement between ISAC-CNR and the "De Giorgi" Scientific High School of Lecce to host four students in the context of the school-work alternation for the biennium 2017-2018.
- Responsible CNR of the agreement between ISAC-CNR and the "De Giorgi" Scientific High School of Lecce, to carry out training courses within the project 10.2.5AFSEPON-PU-2017-10 "Nanotechnology, Climate and Environment for Sustainable Development (PON 2014) - 2020)".

## MEMBERSHIP OF SCIENTIFIC SOCIETIES AND WORKING GROUPS

2018 – now

2018 – now

2017 – 2022

2016 – 2018

2013 – now

2012 – now

2008 – now

2004 – now

2004 – now

2003 – 2016

2003 - 2004

2000 - 2004

2000 – now

- Responsible CNR for the agreement between ISAC-CNR and the "Banzi Bazoli" Scientific High School of Lecce to host four students in the context of the school-work alternation for the period 2019-2021.
- Responsible CNR for the memorandum of understanding on applied research between the municipality of Lecce and the National Research Council from 2019 up to now.

**President** of the IAS (Italian Aerosol Society).

Member of the Society of Environmental Toxicology and Chemistry (SETAC).

**Co-chair of the Working Group** "Atmospheric Aerosol Studies" of European Aerosol Assembly (EAA).

**General Secretary** of the European Aerosol Assembly (EAA).

Member of the REPOL (Rete per la Prevenzione Oncologica Leccese) for aspects regarding air quality-health interaction.

Member of the Technical Committee "Environmental Measurements" (TC19) of International Measurement Confederation (IMEKO).

Member of IAS (Italian Aerosol Society) from 2008 up to now. Coordinator of the Working Group "Sorgenti e processi di generazione dell'aerosol" of IAS between 26/01/2010 and 16/05/2012.

**Member of the Steering Committee of IAS** from April 2012 up to now. From 30/10/2015 to 2018 he was **Treasurer of IAS**.

**Member of Scientific Committee** of Centro di Ricerca Interuniversitario di Aerodinamica delle Costruzioni ed Ingegneria del Vento (CRIACIV), Prato, Italy.

Member of the Italian Physics Society (SIF).

**Member of the Ph.D. board** in Environmental Sciences, University of Urbino.

Member of the Task Force of Regione Puglia for "Valutazione Ambientale Strategica per lo Sviluppo Sostenibile della Puglia". Member of the Working Group "Technological Risks".

Participation to the European Commission **COST Action (European Co-operation in the Field of Scientific and Technical Research)**. **Membro Italiano del "Working Group 3" (Large Scale Facility)** action C14, sector Urban Civil Engineering: "Impact of wind and storm on city life and built environment".

Member of the Associazione Nazionale di Ingegneria del Vento (ANIV).

## TEACHING ACTIVITY

- Contract professor, three years (1999-2002) for the course in "**Fisica Generale I**", Diploma in Mechanical Engineering, University of Florence.
- Co-teacher (for three years) of "**Energy Systems**" for the Diploma course in Environmental and Resource Engineering of the University of Florence; co-teacher (for a year) for the course "**Safety of Industrial Plants**" of the Diploma in Mechanical Engineering course of the University of Florence; Tutor (for three years) of "**Technical Physics**" of the Diploma in Mechanical Engineering course of the University of Florence.
- Tutor of **two Ph.D. Thesis** (XVII cycle and XXIII cycle) in Environmental Sciences at the University of Urbino; co-tutor of **one Ph.D. Thesis** in Physics (XXVIII cycle) at the University of Salento, co-tutor of **one Ph.D. Thesis** in Material, Structure and Nanotechnology Engineering (XXXVIII CICLO) at the University of Salento.
- Co-tutor of 3 **Laurea Thesis** at the University of Florence and of 20 **Laurea Thesis** at the University of Salento.
- Responsible of 19 **internships** and he has held numerous seminars and monographic lessons.

## ADDITIONAL INFORMATION

Participation in research and technology transfer projects without coordination responsibilities

2021-2022

(12 mesi)

Technology transfer contract "Titolo: Esecution of test on the functionality of sensors for determining PM2.5, PM10 and wind speed air quality" funded by Leadermec srl. Budget 5,000 Euro.



2017-2019 (31 months)	Progetto Progetto Smart Data Cloud (SDC), finanziato dal Fondo per la Crescita Sostenibile - Bando "HORIZON2020" PON I&C 2014-2020. Budget of the project € 1.201.873,75, Budget ISAC-CNR € 161,000,00.
2016-2018 (36 months)	Research contract within the project "City Tree Scaler (CTS)" funded by Urban Transitions EIT Climate-KIC European HQ. Budget 368,375 Euro.
2017-2018 (12 months)	Project "Studio di qualità dell'aria nell'area comunale di Sarno", funded by Municipality of Sarno. Budget ISAC-CNR 32,500 Euro.
2015-2017 (36 months)	Air-Sea Lab: Climate air pollution interaction in coastal environment, funded by CNR Joint Lab Project. Website: <a href="http://www.isac.cnr.it/en/projects/air-sea-lab-climate-air-pollution-interaction-coastal-environment">http://www.isac.cnr.it/en/projects/air-sea-lab-climate-air-pollution-interaction-coastal-environment</a> .
2006 – 2013 (96 months)	Project "Monitoring of the air quality during the construction works of the MOSE", funded by the Coordination Center of the Research Activities concerning the Venice Lagoon System (CORILA).
2008 – 2009 (24 months)	Project "Integrated Management and Interoperative Environmental Data" (GIIDA). 'Construction of a web portal with real-time updating for visualization / access to the climatological and air quality database in acquisition at the experimental sites of the ISAC CNR operating unit in Lecce'. Financing body: CNR. Budget 252,000 Euro.
2008 – 2009 (24 months)	Project: "Monitoring of incinerators in Emilia Romagna (MONITER)". Project Line 2 Action 8. Project funded by ARPA Emilia-Romagna. ISAC-CNR Budget 70,000 Euro.
2007 (12 months)	Research contract "Measurement of the influence of port traffic on air quality for the city of Venice: assessment of the turbulent vertical flow of PM2.5 and atmospheric gases" between IDPA-CNR and ISAC-CNR on behalf of the Venice Port Authority. Budget 70,000 Euro.
2006-2008 (24 months)	Participation to Task 5.9 (Il ruolo della stratificazione termica nei flussi notturni di CO <sub>2</sub> su superfici vegetali) within: "Collaborazione Italia-USA su Scienza e Tecnologia dei cambiamenti Climatici – Anno 2006-2008". Budget 440,000 Euro, budget ISAC-CNR 20,000 Euro.
2007 – 2008 (24 months)	Project SIMCA: Scientific cooperation between research institutions for the study of airborne fine particles in Important Cities of the Adriatic area. Funded by INTERREG/CARDS-PHARE. Budget 397,750 Euro. Budget ISAC-CNR 80,750 Euro.
2004 – 2006 (36 months)	Project: "Report of the flow of organic and inorganic micro-pollutants to the atmosphere-water interface of the Venice lagoon", funded by the Consortium for the Management of the Coordination Center of Research Activities concerning the Venice Lagoon System (CORILA). Project budget 345,000 Euro, ISAC-CNR budget 70,000 Euro.
2003 – 2005 (36 months)	Research contract "Measurements of air quality using a mobile laboratory", funded by the Province of Lecce. Budget 75,000 Euro.
2002 – 2005 (36 months)	Project: S.A.I. Early warning system for forest fires. Funded by MIUR (protocol 7979 / DSPAR / 2002).
2002 – 2006 60 months	Project "Experimental Center of Nowcasting in the Puglia Region" Eme2 of the Terrestrial Environment Plan Cluster C-11 C11-B law 488/92, financed by the MURST (Decree 4119 of 11/05/2000). Project budget 1,925,658 Euro, ISAC-CNR budget 521,621 Euro.
1999 – 2001 (24 months)	Research Project of National Interest "Analysis, Control and reduction of wind risk on buildings and on the urban environment (ACME-CUE)" funded by MURST/MIUR. Budget 369.266 Euro.

## EDITORIAL ACTIVITY

Member of editorial board of the following Journals:

- Editorial Board member of the Journal **Aerosol Research** (Copernicus), from 2023 up to now.
- Associate Editor in Analytical Chemistry for the Journal **Frontiers in Chemistry**, from 2023 up to now.
- Editorial Board member of **Environmental Advances**, edited by Elsevier, from 2020 up to now.
- Editorial Board member of **Advances in Environmental and Engineering Research**, edited by Lindsen Publishing Inc, from 2021 up to now.
- Editorial board of **Covid**, edited by MDPI, from 2021 up to now.
- Editorial Board member of **Oxygen**, edited by MDPI, from 2020 up to now.
- Editorial Board member and Section Board member of **Encyclopedia**, edited by MDPI, from 2020 up to now.
- Advisory Board member of **Sci**, edited by MDPI, from 2019 up to now.

- **Section Editor-in-chief** (from 2019 up to now) of the journal “**Atmosphere**” edited by MDPI and member of the editorial board from 2017 up to now.
- **Associate Editor** (from 2019 up to now) of **Arabian Journal of Geosciences** edited by Springer.
- Member of the editorial board (from 2019 up to now) of “**Advances in Environmental and Engineering Research**”, LIDSEN Publishing Inc. (USA).
- Editorial board (from 2016 up to now) of the journal “**Archives in chemical research**” edited by IMEDPUB.
- Editorial board (from 2010 up to now) of “**The Open Atmospheric Science Journal**” edited by Bentham Science Publishers.
- Editorial board (from 2016 up to now) of the journal “**Heliyon**” edited by Elsevier.
- Editorial board (from 2010 to 2015) of “**Open Access Journal of Remote Sensing**” edited by Bentham Science Publishers.
- Editorial board (from 2010 to 2017) of “**ISRN Meteorology**” (Hindawi Publishing Corporation).
- Editorial board (from 2013 to 2017) of “**Dataset Papers in Geosciences**” (Section Meteorology) edited by Hindawi Publishing Corporation.

**Editor of books and proceedings** of workshops and conferences:

- Proceedings of international workshop on physical modelling of flow and dispersion phenomena, PHYSMOD 2003, Editors: D. Contini & G. Manfrida, Firenze University Press, ISBN 88-8453-095-4, 2003.
- Proceedings of the XVth Symposium on Measuring Techniques for Transonic and Supersonic Flows in cascades and Turbomachines, MEASTECH 2000, Editors: D. Contini & G. Manfrida, 2000.
- Studio di qualità dell’aria nella Provincia di Lecce. Editors: D. Contini & S. Francioso, Casa Editrice Salentina, 2008.
- Contini D., Cesari D., Donateo A., Elefante C., Grasso F. M., Francioso S., Belosi F., 2009: Studio di qualità dell’aria nella Provincia di Lecce. Editors: D. Contini & S. Francioso, 2009.
- D. Contini was Editor of the book of Proceedings of the Workshop “Application of Non-Conventional Analytical TECHniques to Atmospheric Particulate MatteR (TECH-AIR2016)”, organised by the Italian Aerosol Society (IAS), 2016.
- D. Contini was Editor of the book of Proceedings of the Workshop “PM Oxidative Potential: response of acellular assays to predict PM-induced oxidative stress activity”, organised by the Italian Aerosol Society (IAS), 2019.

D. Contini was **Guest Editor** for the following special issues for the journal Atmosphere (MDPI):

- Land-Atmosphere Interaction in Micrometeorology and Pollution Dispersal
- Carbonaceous Aerosols in Atmosphere.
- Oxidative Potential of Atmospheric Aerosols
- 10th Anniversary of Atmosphere: Air Quality
- Contributions of Aerosol Sources to Health Impacts
- Coronavirus Pandemic Shutdown Effects on Urban Air Quality
- Sources, Transport, and Sinks of Aerosol in Urban Environments (Italy)
- Coronavirus Pandemic Shutdown Effects on Urban Air Quality (2nd Volume)

**REVIEWERS FOR ARTICLES,  
PROJECTS AND MEMBER OF  
EVALUATION BOARDS**

- D. Contini acts as reviewer for more than 50 international journals in atmospheric sciences with more than 900 reviews performed in total (<https://www.webofscience.com/wos/author/record/579374>).
- Esperto Scientifico CNR for a project of the Accordo Innovazione DM 31/12/2021 (Secondo Bando), MISE. Panel Life Sciences.
- D. Contini reviewed research projects for the Natural Sciences and Engineering Research Council of Canada, 2022.
- D. Contini reviewed research projects for the National Research and Development Agency (ANID) of the Ministry of Science, Technology, Knowledge and Innovation of Chile in 2022.

- D. Contini reviewed research projects for the Natural Environment Research Council (NERC, UK), 2019.
- D. Contini reviewed research projects for the Academy of Finland's Research Council for Natural Sciences and Engineering in 2021 and in 2022.
- Evaluation Committee for the Best Ph.D. award of the Journal Atmosphere (MDPI), 2021.
- Reviewer for research project applications to the Fondazione Italiana Sclerosi Multipla (FISM), 2021.
- Member of the Committee for the Young Investigator Award of the Journal Atmosphere (MDPI), 2020.
- Member of the Evaluation Committee for Ph.D. in Physics and science of the space, University of Granada, 2020.
- Reviewer for Ph.D. Thesis in Chemical Sciences of the University of Ferrara, Italy, 2020.
- Reviewer for Ph.D. Thesis in Physics, astrophysics and applied physics of the University of Milan, Italy, 2019.
- Reviewer of research projects for the Natural Environment Research Council (NERC), UK, 2019.
- Member of the Committee for the Atmosphere Travel Awards (MDPI), 2018.
- Member of the evaluation committee of the Best Poster Award of European Aerosol Conferences, in 2017, 2019, 2020, 2021, and 2022.
- Member of the Ph.D. evaluation board in Physics and nanosciences of the University of Salento, 2017.
- Member of the evaluation committee for the IAS Award for Ph.D. and Laurea Thesis in 2016 and in 2022.
- Member of the selection board for the 2017 edition of the award "Decio De Lorentiis".
- Member of the evaluation board for recruitment of CNR TD researchers (4 instances: two at IBAM-CNR and two at ISAC-CNR).
- Member of the evaluation board for recruitment of a Technologist (TD) at the University Ca' Foscari of Venice (1 instance).
- Member of the selection board for recruitment of a CNR researcher (permanent staff) at IDPA-CNR.
- President of the selection board for recruitment of a CNR Technologist (permanent staff) at ISAC-CNR.
- Member of the selection Committee for the XXIII Cycle of Ph.D. in Environmental Sciences at the University of Urbino.
- Member of the selection board for CNR research fellowships (17 instances).

## PUBLICATIONS AND BIBLIOMETRIC INDEXES

Author of 132 publications on Journals indexed in ISI-WEB-OF-SCIENCE or SCOPUS being 'corresponding author' in 43 of them. He is author of 10 contributions to books, author of 49 proceedings of national and international conferences and author of more than 170 abstracts of conferences (at national and international level), 11 of them were invited talks. D. Contini is also author of more than 110 technical notes and reports of scientific projects.

Source **ISI-WEB-OF-SCIENCE** (Researcher ID: <http://www.researcherid.com/rid/N-7070-2014>), citations 4334, H index 40.

Source **SCOPUS** (<http://www.scopus.com/authid/detail.url?authorId=7004524993>), citations 4748, H index 41.

Source **SCHOLAR** (<http://scholar.google.it/citations?user=aZGDcQAAAAJ&hl=it&oi=ao>), citations 5964, H index 45.

The undersigned DANIELE CONTINI, pursuant to art. 46 and 47 of Presidential Decree 445/2000 and subsequent amendments, aware of the criminal liability provided for by art. 76 of the same DPR for the hypotheses of falsity of deeds and false declarations stated there DECLARES that what is reported in this Curriculum corresponds to the truth. I authorize the processing of my personal data pursuant to Legislative Decree 30 June 2003, n. 196 "Code regarding the protection of personal data" and the General Regulation on Data Protection (EU No. 2016/679).

Lecce, 06/07/2023

Signature

## PUBLICATION LIST (only papers in peer-reviewed Journals)

- 1) Contini D., H. Liszka, A. Sassaroli, and G. Zaccanti. Imaging of highly turbid media using the absorption method, *Applied Optics* Vol. 35, N. 13, 2315-2324, 1996.
- 2) Bassani M., F. Martelli, D. Contini, G. Zaccanti. Independence of the diffusion coefficient on absorption: experimental and numerical evidence, *Optics Letters* Vol. 22, No. 15, 853-855, 1997.
- 3) Contini D., F. Martelli, G. Zaccanti. Photon migration through a turbid slab described by a model based on diffusion approximation. I Theory, *Applied Optics* Vol. 36, No 19, 4587-4599, DOI: dx.doi.org/10.1364/AO.36.004587, 1997.
- 4) Martelli F., D. Contini, A. Taddeucci, G. Zaccanti. Photon migration through a turbid slab described by a model based on diffusion approximation. II Comparison with Monte Carlo results, *Applied Optics* Vol. 36, No 19, 4600-4612, 1997.
- 5) Contini D., G. Zaccanti, F. Martelli, A. Sassaroli. Models for photon migration and optical properties of biological tissues, *Physica Scripta* Vol. T72, 76-82, 1997.
- 6) Sassaroli A., C. Blumetti, F. Martelli, A. Alianelli, D. Contini, A. Ismaelli, G. Zaccanti. Monte Carlo procedure for investigating light propagation and imaging of highly scattering media, *Applied Optics* Vol. 37, N. 31, 7392-7400, 1998.
- 7) D. Contini, M. Ruggiero, G. Manfrida. Turbulent flow field measurements in a model of a gas turbine combustion chamber, *Revue Generale de Thermique*, Vol. 37, N. 10, 843-852, 1998.
- 8) Contini D., G. Manfrida, V. Michelassi, G. Riccio. Measurements of vortex shedding and wake decay downstream of a turbine inlet guide vane, *Flow Turbulence and Combustion* 64, 253-278, 2000.
- 9) Corti A., D. Contini, G. Manfrida, L. Procino. Environmental wind tunnel study on a municipal waste incinerator, *Environmental Monitoring and Assessment* 65, 191-199, 2000.
- 10) Manfrida G., A. Corti, D. Contini. Comparison between dispersion models with wind tunnel small scale measurements, *International Journal of Environment and Pollution* 16, N. 1-6, 2001.
- 11) Robins A., Castro I., Hayden P., Steggel N., Contini D., Heist D. A wind tunnel study of dense gas dispersion in neutral boundary layer over rough surface, *Atmospheric Environment* 35, 2243-2252, 2001.
- 12) Robins A., Castro I., Hayden P., Steggel N., Contini D., Heist D., Taylor T. J. A wind tunnel study of dense gas dispersion in stable boundary layer over rough surface, *Atmospheric Environment* 35, 2253-2263, 2001.
- 13) Contini D., Robins A. Water tank measurements of buoyant plume rise and structure in neutral crossflows, *Atmospheric Environment* 35, 6105-6115, 2001.
- 14) Contini D., A. Robins. Experiments on the rise and mixing in neutral crossflow of plumes from two identical sources for different wind directions, *Atmospheric Environment* 38, 3573-3583, 2004.
- 15) Contini D., Mastrantonio G., Viola A., Argentini S. Mean Vertical Motions in the PBL Measured by Doppler Sodar: Accuracy, Ambiguities, Possible Improvements, *Journal of Atmospheric and Oceanic Technology* 21, 1532-1544, 2004.
- 16) Contini D., Donato A., Belosi F. Accuracy of measurements of turbulent phenomena in the Surface Boundary Layer with an ultrasonic anemometer, *Journal of Atmospheric and Oceanic Technology* 23, 785-801, 2006.
- 17) Donato A., Contini D., Belosi F. Real time measurements of PM2.5 concentrations and vertical turbulent fluxes using an optical detector, *Atmospheric Environment* 40, 1346-1360, 2006.
- 18) Belosi F., Contini D., Donato A., Prodi F. Measurements of atmospheric aerosol in the Salentum Peninsula and its correlation with local meteorology, *Il Nuovo Cimento C* 29, N. 4, 473-486, 2006.
- 19) Cava D., D. Contini, A. Donato, F. Grasso, P. Martano. A case study of short term closure of the surface energy balance. *Il Nuovo Cimento B* 121, 845-855, 2006.
- 20) Contini D., Hayden P., Robins A. G. Concentration field and turbulent fluxes during the mixing of two buoyant plumes, *Atmospheric Environment* 40, 7842-7857, 2006.
- 21) Contini D., F. M. Grasso, G. Mastrantonio, A. P. Viola, P. Martano. Performances of a modular PC-based Multi-Tone Sodar system in measuring vertical wind velocity, *Z. Meteorol.* 16, 357-365, 2007.
- 22) Gambaro A., L. Manodori, G. Toscano, D. Contini, A. Donato, F. Belosi, F. Prodi, P. Cescon. PAHs and trace elements in PM2.5 at the Venice lagoon. *Annali di Chimica* 97 (5-6), 343-358, 2007.
- 23) Cava D., Contini D., Donato A., Martano P. Analysis of short-term closure of the surface energy balance above short vegetation. *Agricultural and Forest Meteorology* 148, 82-93, 2008.
- 24) Prodi F., Belosi F., Santachiara G., Contini D., Di Matteo L., Grasso F. Chemical composition and shape of snow crystals in antartica. *NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA C-GEOPHYSICS AND SPACE PHYSICS* 31, 2, 157-173, 2008.
- 25) Prodi F., F. Belosi, D. Contini, G. Santachiara, L. Di Matteo, A. Gambaro, A. Donato, D. Cesari. Aerosol fine fraction in the Venice Lagoon: Particle composition and sources. *Atmospheric Research* 92, 141-150, 2009.
- 26) Contini D., Cava D., Martano P., Donato A., Grasso F. M. Boundary Layer Height Estimation by Sodar and Sonic Anemometer Measurements. *Meteorol. Z.* 18, 309-320, 2009.
- 27) Contini D., D. Cesari, A. Donato, A. G. Robins. Effects of Reynolds number on stack plume trajectories simulated with small scale models in a wind tunnel. *Journal of Wind Engineering and Industrial Aerodynamics*, 97, 468-474, 2009.
- 28) Gambaro A., Radaelli M., Piazza R., Contini D., Belosi F., Zangrando R., Cescon P. Organic micropollutants in wet and dry deposition in the Venice Lagoon. *Chemosphere* 76, 1017-1022, 2009.

- 29) Paradisi P., Cesari R., Contini D., Donateo A., Palatella L. Characterizing memory in atmospheric time series. An alternative approach based on renewal theory, *European Physical Journal* 174, 217-218, 2009.
- 30) Stortini A.M., Freda A., Cesari D., Warren C., Contini D., Gambaro A. Evaluation on PM<sub>2.5</sub> inorganic elemental composition in Venice Lagoon area and analysis of possible sources. *Atmospheric Environment*, 43, 6296-6304, 2009.
- 31) Contini D., Genga A., Cesari D., Siciliano M., Donateo A., Bove M.C., Guascito M.R. Characterization and source apportionment of PM<sub>10</sub> in a background site in Lecce. *Atmospheric Research*, 95, 40-54, 2010.
- 32) Contini D., Donateo A., Belosi F., Grasso F.M., Santachiara G., Prodi F. Deposition velocity of ultrafine particles measured with eddy-correlation method over Nanseen Ice Sheet (Antarctica), *Journal of Geophysical Research* 115, D16202, 2010.
- 33) Contini D., Donateo A., Cesari D., Belosi F., Francioso S. Identification and characterisation of local aerosol sources using high temporal resolution measurements, *Journal of Environmental Monitoring* 12, 1709-1721, 2010.
- 34) Contini D., A. Donateo, D. Cesari, A.G. Robins. Comparison of plume rise models against water tank experimental data for neutral and stable crossflow, *Journal of Wind Engineering and Industrial Aerodynamics*, 99, 539-553, 2011.
- 35) Contini D., A. Gambaro, F. Belosi, S. De Pieri, W. Cairns, A. Donateo, E. Zanotto, M. Citron. Direct influence of ship traffic on atmospheric PM<sub>2.5</sub>, PM<sub>10</sub> and PAHs in Venice, *Journal of Environmental Management*, 92, 2119-2129, 2011.
- 36) Contini D., Donateo A., Elefante C., Grasso F.M. Analysis of particles and carbon dioxide concentrations and fluxes in an urban area: correlation with traffic rate and local micrometeorology. *Atmospheric Environment*, 46, 25-35, 2012.
- 37) Cesari D, Contini D, Genga A, Siciliano M, Elefante C, Baglivi F, Daniele L. Analysis of raw soils and their re-suspended PM<sub>10</sub> fractions: characterisation of source profiles and enrichment factors. *Applied Geochemistry* 27, 1238-1246, 2012.
- 38) Contini D., Belosi F, Gambaro A, Cesari D, Stortini AM, Bove MC. Comparison of PM<sub>10</sub> concentrations and metal content in three different sites of the Venice Lagoon: an analysis of possible aerosol sources. *Journal of Environmental Sciences* 24, 1-12, 2012.
- 39) Belosi F., D. Contini, A. Donateo, G. Santachiara, F. Prodi. Aerosol size distribution at Nansen Ice Sheet Antarctica. *Atmospheric Research*, 107, 42-50, 2012.
- 40) Donateo A., D. Contini, F. Belosi, A. Gambaro, G. Santachiara, D. Cesari, F. Prodi. Characterization of PM<sub>2.5</sub> concentrations and turbulent fluxes on a island in the Venice lagoon using high temporal resolution measurements. *Meteorologische Zeitschrift*, vol.21, 4, 385-398, 2012.
- 41) Paradisi P., R. Cesari, A. Donateo, D. Contini, P. Allegrini. Scaling laws of diffusion and time intermittency generated by coherent structures in atmospheric turbulence. *Nonlinear Process Geophysics* 19, 113-126, 2012.
- 42) Paradisi P, Cesari R, Donateo A, Contini D, Allegrini P. Diffusion scaling in event driven random walks: an application to turbulence. *REPORTS ON MATHEMATICAL PHYSICS* 70, 205-220, 2012.
- 43) Cava D., Donateo A., Contini D. Combined stationarity index for the estimation of turbulent fluxes of scalars and particles in the atmospheric surface layer. *Agricultural and Forest Meteorology* 194, 88-103, 2014.
- 44) Donateo A., Gregoris E., Gambaro A., Merico E., Giua R., Nocioni A., Contini D. Contribution of harbour activities and ship traffic to PM<sub>2.5</sub>, particle number concentrations and PAHs in a port city of the Mediterranean Sea (Italy). *Environmental Science and Pollution Research* 21, 9415-9429, 2014.
- 45) Gregoris, E, E Argiriadis, M Vecchiato, S Zambon, S De Pieri, A Donateo, Contini, D, Piazza, R, Barbante, C, Gambaro, A. Gas-particle distributions, sources and health effects of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs) and polychlorinated naphthalenes (PCNs) in Venice aerosols. *Science of The Total Environment* 476, 393-405, 2014.
- 46) Contini D., D Cesari, A Genga, M Siciliano, P Ielpo, MR Guascito, M Conte. Source apportionment of size-segregated atmospheric particles based on the major water-soluble components in Lecce (Italy). *Science of The Total Environment* 472, 248-261, 2014.
- 47) Contini D., AG Robins, P Hayden. Statistical properties of concentration fluctuations in two merging plumes. *Environmental Fluid Mechanics* 14 (4), 919-942, 2014.
- 48) Cesari D., A Genga, P Ielpo, M Siciliano, G Mascolo, FM Grasso, D Contini. Source apportionment of PM<sub>2.5</sub> in the harbour-industrial area of Brindisi (Italy): Identification and estimation of the contribution of in-port ship emissions. *Science of the Total Environment* 497, 392-400, 2014.
- 49) Contini D., D Cesari, A Donateo, D Chirizzi, F Belosi. Characterization of PM<sub>10</sub> and PM<sub>2.5</sub> and their metals content in different typologies of sites in South-Eastern Italy. *Atmosphere* 5 (2), 435-453, 2014.
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