

PERSONAL INFORMATION

ILARIA D'ELIA

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WORK EXPERIENCE

From 1 December 2009

Researcher

ENEA – Italian Agency for New Technologies, Energy and Sustainable Economic Development, Lungotevere Thaon di Revel, 76 – 00193 Rome (Italy), <http://www.enea.it/it>

- Study and research on energy and air pollution integrated assessment model. In details:
 - integration of different models and in particular the link of the economic-energy TIMES-Italy model to the GAINS-Italy model so to supply economic-energy scenario analysis with air pollution and GHGs emission scenario;
 - development of an optimization tool for the elaboration of emission and air quality reduction scenarios and cost evaluation and for the assessment of air quality policy;
 - elaboration of national and regional air pollution and GHGs emission scenarios;
 - assessment of regional air quality and energy plans;
 - assessment of national and regional air pollution emission inventories.
 - Participation in the national project MINNI (*National Integrated Model to support the international negotiation on atmospheric pollution*): development of an air quality integrated tool to analyze air pollution/air quality policies and improvement of the GAINS-Italy model.
 - Member of the Italian delegation during the Gothenburg Protocol revision negotiation (February 2011-May 2012).
 - Member of the Italian delegation for the revision of the National Emission Ceilings (NEC) Directive.
 - Participation in Bilateral Agreement for TECHNICAL SUPPORT in LEBANON FOR WASTE MANAGEMENT, AIR QUALITY AND POLLUTION FROM PERSISTENT ORGANIC POLLUTANTS between Italian Ministry of Foreign Affairs and Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)
- Scientific research and development

January 2008 – March 2008; January 2009 – February 2009

Tutor

University of Perugia – Department of Civil and Environmental Engineering
Via G. Duranti 93, 06125 Perugia (Italy)

Tutor on air emission diffusion, air quality modelling, air pollution and lessons on “The application of models in air quality evaluation”. Scientific research and development
Scientific: University

February 2007 – November 2009

Research fellow

ENEA – Italian Agency for New Technologies, Energy and Sustainable Economic Development, CR Casaccia - Via Anguillarese, 301 – 00123 S. Maria di Galeria (RM) - Italy

Research activity on the development of integrated assessment models on air pollution. In particular in the following activities:

- harmonization of emission inventories analysing the top-down and bottom-up approach;
- assessment of regional air quality plans;

development of a methodology to evaluate technical and non-technical measures for the air quality reduction policies;

Scientific research and development

July 2006 – February 2007

External Collaborator

ARIANET s.r.l. – via Gilino, 9 – 20128 Milan (Italy), <http://www.aria-net.it/>

Research activity on emission inventories and projections, assessment of the air quality plan of the Piedmont Region.

Environmental Consulting Company

EDUCATION AND TRAINING

23-27 September 2013

Course in “Energy Manager” for civil and public administration

ENEA – FIRE – Ordine degli Ingegneri di Latina

Energy management, energy efficiency, renewable sources, electricity and gas market, incentives in energy efficiency, energy certification

November 2007 – February 2010

PhD in Civil Engineer

University of Perugia – Department of Civil and Environmental Engineering

Via G. Duranti 93, 06125 Perugia (Italy)

Integrated Assessment Model, Air Pollution, Air Quality, Model and Measurement Uncertainties. Dissertation title: "Integrated Assessment Model for Air Quality. The case study of Umbria Region". Supervisor: professor Renato Morbidelli. Tutor: Dr. Giandomenico Pace

July 2004 – July 2006

Scholarship

ENEA – Italian Agency for New Technologies, Energy and Sustainable Economic Development

CR Casaccia - Via Anguillarese, 301 – 00123 S. Maria di Galeria (RM) – Italy

Research activity under the project “Emission and diffusion of air pollution” developing the integrated assessment tool RAINS-Italy.

October 1997 – April 2003

Degree in Environmental Engineer

University of Perugia – Department of Civil and Environmental Engineering

Via G. Duranti 93, 06125 Perugia (Italy)

Hydrology, Real time flood forecast modelling. Dissertation title: “An adaptive real-time flood forecasting model”. Supervisors: professors Renato Morbidelli and Corrado Corradini.

June 1996

First Certificate in English (FCE)

- British Council of Rome
- English (reading, listening, writing)

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
First Certificate in English					
German	A1	A1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ▪ good attitude to work in team gained through my experience in the negotiation process of the international protocol and European Directive

Organisational / managerial skills ▪ good skills in organizing my work autonomously and to coordinate team work.

Job-related skills ▪ good knowledge of air pollutant emission sources and of possible measures and tool to evaluate and reduce emissions.

Digital competence	SELF-ASSESSMENT				
	Information processing	Communication	Content creation	Safety	Problem solving
	Independent user	Independent user	Independent user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- good command of office suite (word processor, spread sheet, presentation software)
- basic users of Access, MySQL, GAMS, Autocad and Photoshop
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Driving licence Driving licence, B category

PUBLICATIONS

- D'Elia, I, De Marco, A., Vialetto, G., Effect-based activities on air pollution: what is the state of the natural and anthropogenic Italian ecosystems. Ed. ENEA, <http://openarchive.enea.it/handle/10840/8470>
- Ciucci, A., D'Elia, I., Wagner, F., Sander, R., Ciancarella, L., Zanini, G., Schö pp, W., 2016. Cost-effective reductions of PM2.5 concentrations and exposure in Italy. Atmospheric Environment, 140, 84-93.
- D'Elia, I., Peschi, E., 2016. How national air quality models can be used in defining environmental polizie: the NEC Directive revision. ENEA Technical Report, RT/2016/30/ENEA.
- Piersanti, A., Ancona, C., Berti, G., Cadum, E., Ciancarella, L., D'Elia, I., Forastiere, F., Righini, G., 2016. Health impact of air pollution on Italy: main findings of VIAS and MED HISS projects.
- Proceedings of the 8th International Congress on Environmental Modelling and Software in Toulouse, Francia. Tolosa, 10-14 luglio 2016.
- Ciancarella, L., Adani, M., Ciucci, A., Cremona, G., D'Isidoro, M., Mircea, M., Piersanti, A., Russo, F., Vitali, L., Righini, G., Zanini, G., Briganti, G., Cappelletti, A., D'Elia, I., 2016. La simulazione nazionale di AMS-

- MINNI relativa all'anno 2010: Simulazione annuale del Sistema Modellistico Atmosferico di MINNI e validazione dei risultati tramite confronto con i dati osservati. ENEA Technical Report, RT/2016/12/ENEA.
- Zanini, G., Briganti, G., Cappelletti A., Ciancarella, L., D'Elia, I., D'Isidoro, M., Piersanti, A., Righini, G., 2016. An atmospheric modelling system for Lebanon. ENEA Technical Report RT/2016/9/ENEA.
 - Ciucci, A., D'Elia, I., Ciancarella, L., Zanini, G., 2014. The Italian optimization tool for the GAINS-Italy model. ENEA Technical Report RT/2014/10/ENEA.
 - D'Elia, I., Bencardino, M., Ciancarella, L., 2013. L'importanza dei modelli di valutazione integrata nella valutazione di misure per il miglioramento della qualità dell'aria. In Lo Stato dell'Ambiente in Piemonte 2013, in Ambiente Urbano, pagg. 12-14, ISBN 978-8874-791-255, http://issuu.com/arpapiemonte/docs/ambiente_urbano_4eb6e304a26578/13?e=3220231/4104800
 - D'Elia, I., Peschi, E., 2013. Lo scenario emissivo nella negoziazione internazionale. Rapporto Tecnico ENEA, RT/2013/10/ENEA.
 - -Ciancarella, L., Briganti, G., Calori, G., Cappelletti, A., Cionni, I., Costa, M., Cremona, G., D'Elia, I., D'Isidoro, M., Finardi, S., Mauri, L., Mircea, M., Pace, G., Piersanti, A., Racalbutto, S., Radice, P., Righini, G., Vialetto, G., Vitali, L., Zanini, G., 2011. National Italian Integrated Atmospheric Model on Air Pollution: sensitivity to emission inventories. Proceedings of the 14th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes. Kos, 2-6 October 2011, pp. 277-281.
 - D'Elia I., Bencardino M., Ciancarella L., Contaldi M., Vialetto G., 2009. Technical and Non Technical Measures for Air Pollution Emission Reduction: the Integrated Assessment of the Regional Air Quality Management Plans through the Italian National Model. Atmospheric Environment 43, 6182-6189.
 - D'Elia, I., Pace, G., Vitali, L., Briganti, G., Cappelletti, A., Finardi, S., Angelucci, M., Vecchiocattivi, M., Zanini, G., Morbidelli, R., Vialetto, G., 2009. Confronto tra le osservazioni e le simulazioni del modello MINNI per la centralina di monitoraggio Cortonese – Anno 2005. Rapporto tecnico ENEA, RT/2009/32/ENEA. ISSN/0393-3016.
 - Contaldi, M., D'Elia, I., Gracceva, F., Rizzitiello, F., 2009. Strategie per l'abbattimento delle emissioni di NOx: analisi delle curve dei costi per settore con proiezione al 2010 e strumenti di policy. Rapporto Tecnico ISPRA 102/2009.
 - Pignatelli, T., Bencardino, M., Ciancarella, L., D'Elia, I., Racalbutto, S., Vialetto, G., Calori, G., Contaldi, M., 2009. Scenarios downscaling: qualitative comparison between RAINS-Europe and RAINS-Italy. In Proc. 18th World IMACS Congress and MODSIM09 International Congress on Modelling and Simulation , July 2009, pp. 2321-2327. ISBN: 978-0-9758400-7-8.
 - Vialetto, G., Calori, G., D'Elia, I., Bencardino, M., Contardi, C., Contaldi, M., Sordi, F., Radice, P., Truffo, G., Arduino, G., Pittini, T., Ciancarella, L., Pignatelli, T., 2009. Regional air quality plans: assessment of plans efficacy through the use of integrated assessment modelling and other local models. In: Francis X.V., Khaiwal R., Chemel C., Newbold J., Incecik S., Kahya C. and Sokhi R.S. editors, University of Hertfordshire, UK. Proceedings of the 7th International Conference on Air Quality-Science and Application. Istanbul, 24-27 March 2009. pp. 4. [ISBN: 978-1-905313-64-8]
 - Colonna, N., Correnti, A., D'Elia, I., Racalbutto, S., Schimberni, M., Vialetto, G., 2008. Evaluation of ammonia emission reduction by fertilizer use in Italy. Italian Journal of Agronomy, 3, 81-82.
 - Colonna, N., Correnti, A., D'Elia, I., Racalbutto, S., Schimberni, M., Vialetto, G., 2008. Ridurre le emissioni di ammoniaca da fertilizzanti azotati. Ambiente Risorse e Salute, 117, 6-12.
 - De Marco, A., D'Elia, I., Bencardino, M., Screpanti, A., Vialetto G., 2008. Risk assessment for ozone and nitrogen impacts on forestall vegetation. In proceedings of the 23rd IUFRO Conference for Specialists in Air Pollution and Climate Change Effects on Forest Ecosystems, Murten, 7-12 September 2008. Air Pollution and Climate Change at Contrasting Altitude and Latitude, 142.
 - Pignatelli, T., D'Elia, I., Vialetto, G., Bencardino, M., Contaldi, M., 2008. The use of biomass: synergies and trade-offs between climate change and air pollution in Italy. Proceedings della 17th International emission inventories conference. Portland, 2-5 June 2008. pp. 8.
 - Pignatelli, T., Brusasca, G., Calori, G., Contaldi, M., D'Elia, I., Monforti, F., Finardi, S., Radice, P., Silibello, C., Vialetto, G., Vitali, L., Zanini, G., 2007. Impact assessment on environment from transboundary air pollution in Italy carried out by a multi-pollutant integrated assessment model. In Oxley, L. and Kulasiri, D. (eds) MODSIM 2007 International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand, pp. 2076-2082. ISBN: 978-0-9758400-4-7.
 - Pignatelli, T., Monforti, F., Zanini, G., D'Elia, I., Vialetto, G., 2007. Assessment of Ozone impact on Human Health in Italy, through the Integrated Assessment Modelling System MINNI.

- Proceedings of the 14th IUAPPA World Conference, Brisbane, 9 – 13 September 2007.

Signature

A handwritten signature in black ink, appearing to read "Ilaria DeFlia". The signature is fluid and cursive, with the first name "Ilaria" and the last name "DeFlia" clearly distinguishable.