

# Roberto Bianconi

Senior Associate, EnviroComp Consulting, Inc.

Senior Member, The EnviroComp Institute

Co-owner, Envioware srl

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## Education

Degree in Physics ("Dottore in Fisica, Laurea Magistrale") at Milan University (Italy).

Thesis: "Development and application of a Lagrangian particle model for atmospheric dispersion".

Academic Year 1992-93.

## Professional Experience

2012 – present

Senior Associate of EnviroComp Consulting, Inc, California

1997 - present

Co-owner and project manager of Envioware srl, Italy

The company provides worldwide advanced consulting services in air quality impact assessment, industrial risk evaluation, development of modelling tools and development of environmental software and web applications. (for more information visit <http://www.envioware.com>)

1994 - 1997

Founder and scientific responsible of IDEA – Environmental Consulting

1994

Visiting Scientist San Jose State University, Dept. of Meteorology, California

1994

Scientific consultant for Failure Analysis Associates, Inc, California

1992 - 1993

Scientific stagiaire at JRC European Commission, Ispra (Italy)

1992 - 1993

Scientific consultant for Tema spa (ENI group), Milan (Italy)

## Skills

Air quality modelling

- Developer of mathematical models for the atmospheric dispersion of pollutants
- Project manager for several air quality impact assessment studies using US-EPA air quality models (AERMOD, CALMET-CALPUFF, ISC, CALINE3)
- Developer of computer programs for evaluating models performance
- Participation in several international research projects

## Computer programming

Perl: more than 15 years programming experience

- Designer and developer of several web-based platforms, including: RTMOD<sup>1</sup>, a system for long-range model output intercomparison, within a Concerted Action of the European Commission; ENSEMBLE<sup>23</sup>, a model evaluation platform started within the 4<sup>th</sup> and 5<sup>th</sup> Framework Programmes of the European Commission; AQWEB, used by Regione Emilia-Romagna, Italy, for remote use of air quality models; FASST-WEB, a web friendly interface to the TM5-FASST tool, developed at JRC Ispra (Italy) that allows to evaluate how air pollutant emissions affect large scale pollutant concentrations and their impact on human health.
- Skills on developing ad-hoc software for managing and processing very large datasets of disparate formats, as well as for their analysis and georeferenced representation.

Fortran: more than 25 years programming experience

- Developer of computer models for simulating the atmospheric dispersion of pollutants due to accidental or controlled releases. These models include the analytical model MRBT<sup>45</sup> and the Lagrangian particle models PLPM<sup>6</sup> and LAPMOD<sup>7</sup>.
- Developer of computer codes for data processing and format conversion. These codes include the software for converting ENSEMBLE datasets to netCDF files. The software has been successfully used in the AQMEII Phase 1/2/3 projects (<http://ensemble2.jrc.ec.europa.eu/aqmeii/>) and it is based on the netCDF Fortran 4.2 libraries.

## Server and network administration

More than 20 years experience as system administrator. The network has a main server running Linux Ubuntu and all management tasks are tackled in-house. The expertise includes Linux installation and packages management, Apache web server set up and maintenance and remote in-cloud backup. Very good knowledge of Windows and OS X operating systems.

## **Scientific publications and conference contributions**

- 50 peer-reviewed scientific publications
- 37 contributions to conferences

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1 Bellasio R., R. Bianconi, G. Graziani and S. Mosca (1999) RTMOD: An Internet based system to analyse the predictions of long-range atmospheric dispersion models, *Computers and Geosciences*, 25, 7, 819-833.

2 Bianconi R., S. Galmarini and R. Bellasio (2003) A WWW-based decision support system for the management of accidental releases of radio nuclides in the atmosphere. *Environmental Modelling and Software*, 19, 401-411.

3 Galmarini S., R. Bianconi, W. Appel, E. Solazzo, S. Mosca, P. Grossi, M. Moran, K. Schere, S.T. Rao (2012) ENSEMBLE and AMET: two systems and approaches to a harmonized, simplified and efficient assistance to air quality models development and evaluation. *Atmospheric Environment*, 53, 51-59.

4 Bianconi R., M. Tamponi (1993) A mathematical model of diffusion from a steady source of short duration in a finite mixing layer. *Atmospheric Environment*, 27A, 781-792.

5 Andretta M., R. Bianconi, W. Flosspergher, M. Tamponi (1993) The MRBT model: an analytical dispersion model in a finite mixing layer. Sensitivity analysis and validation against tracer measurements. *Atmospheric Environment*, 27A, 1665-1672.

6 Vitali L., F. Monforti, R. Bellasio, R. Bianconi, V. Sacchero, S. Mosca and G. Zanini (2006) Validation of a Lagrangian dispersion model implementing different kernel methods for density reconstruction. *Atmospheric Environment*, 40, 40, 8020-8033.

7 Bellasio R. e R. Bianconi (2012) The LAPMOD modelling system for simulating atmospheric pollution in complex orography (in Italian). *Ingegneria Ambientale*, vol. XLI, n. 6, 492-500.

## Scientific journals

50. Im U., R. Bianconi, E. Solazzo, I. Kioutsioukis, A. Badia, A. Balzarini, R. Baró, R. Bellasio, D. Brunner, C. Chemel, G. Curci, J. Flemming, R. Forkel, L. Giordano, P. Jiménez-Guerrero, M. Hirtl, A. Hodzic, L. Honzak, O. Jorba, C. Knote, J. Kuenen, P. Makar, A. Manders-Groot, L. Neal, J.L. Pérez, G. Pirovano, G. Pouliot, R. San Jose, N. Savage, W. Schroder, R.S. Sokhi, D. Syrakov, A. Torian, P. Tuccella, J. Werhahn, R. Wolke, K. Yahya, R. Zabkar, Y. Zhang, J. Zhang, C. Hogrefe, S. Galmarini (2015) **Evaluation of operational on-line-coupled regional air quality models over Europe and North America in the context of AQMEII phase 2. Part I: Ozone** Volume 115, August 2015, Pages 404–420. doi:10.1016/j.atmosenv.2014.09.042
49. Im U., R. Bianconi, E. Solazzo, I. Kioutsioukis, A. Badia, A. Balzarini, R. Baró, R. Bellasio, D. Brunner, C. Chemel, G. Curci, J. Flemming, R. Forkel, L. Giordano, P. Jiménez-Guerrero, M. Hirtl, A. Hodzic, L. Honzak, O. Jorba, C. Knote, J. Kuenen, P. Makar, A. Manders-Groot, L. Neal, J.L. Pérez, G. Pirovano, G. Pouliot, R. San Jose, N. Savage, W. Schroder, R.S. Sokhi, D. Syrakov, A. Torian, P. Tuccella, J. Werhahn, R. Wolke, K. Yahya, R. Zabkar, Y. Zhang, J. Zhang, C. Hogrefe, S. Galmarini (2015) **Evaluation of operational on-line-coupled regional air quality models over Europe and North America in the context of AQMEII phase 2. Part II: Particulate Matter** Volume 115, August 2015, Pages 421–441. doi:10.1016/j.atmosenv.2014.08.072
48. G Curci, A. Balzarini, R. Baró, R. Bianconi, D. Brunner, R. Forkel, L. Giordano, M. Hirtl, C. Hogrefe, L. Honzak, U. Im, P. Jiménez Guerrero, C. Knote, M. Langer, P. Makar, G. Pirovano, J.L. Pérez, R. San José, D. Syrakov, P. Tuccella, J. Werhahn, R. Wolke, R. Žabkar (2015) **Uncertainties of simulated aerosol optical properties induced by assumptions on aerosol physical and chemical properties: An AQMEII-2 perspective** Atmospheric Environment 115, 2015, page 541-552.
47. Giordano L., D. Brunner, J. Flemming, C. Hogrefe, U. Im, R. Bianconi, A. Badia, A. Balzarini, R. Baró, C. Chemel, G. Curci, R. Forkel, P. Jiménez-Guerrero, M. Hirtl, A. Hodzic, L. Honzak, O. Jorba, C. Knote, J.J.P. Kuenen, P.A. Makar, A. Manders-Groot, L. Neal, J.L. Pérez, G. Pirovano, G. Pouliot, R. San José, N. Savage, W. Schröder, R.S. Sokhi, D. Syrakov, A. Torian, P. Tuccella, J. Werhahn, R. Wolke, K. Yahya, R. Žabkar, w, Y. Zhang, S. Galmarini (2015) **Assessment of the MACC reanalysis and its influence as chemical boundary conditions for regional air quality modeling in AQMEII-2** Volume 115, August 2015, Pages 371–388. doi:10.1016/j.atmosenv.2015.02.034
46. Brunner D., N.Savage, O.Jorba, B.Eder, L.Giordano, A.Badia, A.Balzarini, R.Baró, R.Bianconi, C.Chemel, G.Curci, R.Forkel, P.Jiménez-Guerrero, M.Hirtl, A.Hodzic, L.Honzak, U.Im, C.Knote, P.Makar, A.Manders-Groot, E.van Meijgaard, L.Neal, J.L.Pérez, G.Pirovano, R.San Jose, W.Schröder, R.S.Sokhi, D.Syrakov, A.Toriand, P.Tuccella, J.Werhahn, R.Wolke, K.Yahya, R.Zabkar, Y.Zhang, C.Hogrefe, S.Galmarini (2015) **Comparative analysis of meteorological performance of coupled chemistry-meteorology models in the context of AQMEII phase 2.** Volume 115, August 2015, Pages 470–498. doi:10.1016/j.atmosenv.2014.12.032.
45. Makar P.,W. Gong, J. Milbrandt, C. Hogrefe, Y. Zhang, G. Curci, R. Žabkar, U. Im, A. Balzarini, R. Baró, R. Bianconi, P. Cheung, R. Forkel, S. Gravel, M. Hirtl, L. Honzak, A. Hou, P. Jiménez-Guerrero, M. Langer, M.D. Moran, B. Pabla, J.L. Pérez, G. Pirovano, R. San José, P. Tuccella, J. Werhahn, J. Zhang, S. Galmarini (2015) **Feedbacks between air pollution and weather, Part 1: Effects on weather.** Volume 115, August 2015, Pages 442–469. doi:10.1016/j.atmosenv.2014.12.003
44. Makar P.,W. Gong, J. Milbrandt, C. Hogrefe, Y. Zhang, G. Curci, R. Žabkar, U. Im, A. Balzarini, R. Baró, R. Bianconi, P. Cheung, R. Forkel, S. Gravel, M. Hirtl, L. Honzak, A. Hou, P. Jiménez-Guerrero, M. Langer, M.D. Moran, B. Pabla, J.L. Pérez, G. Pirovano, R. San José, P. Tuccella, J. Werhahn, J. Zhang, S. Galmarini (2015) **Feedbacks between air pollution and weather, Part 2: Effects on chemistry.** Volume 115, August 2015, Pages 442–469. doi:10.1016/j.atmosenv.2014.10.021

43. Forkel R., A. Balzarini, R. Baró, R. Bianconi, G. Curci, P. Jiménez-Guerrero, M. Hirtl, L. Honzak, C. Lorenz, U. Im, J.L. Pérez, G. Pirovano, R. San José, P. Tuccella, J. Werhahn, R. Žabkar (2015) **Analysis of the WRF-Chem contributions to AQMEII phase2 with respect to aerosol radiative feedbacks on meteorology and pollutant distributions**. Volume 115, August 2015, Pages 630–645. doi:10.1016/j.atmosenv.2014.10.056
42. Solazzo E., R. Bianconi, G. Pirovano, M. Volker, R. Vautard, C. Hogrefe, K.W. Appel, B. W. Matthias, P. Grossi, B. Bessagnet, J. Brandt, C. Chemel, J.H. Christiansen, R. Forkel, V. Francis, A. Hansen, S. McKeen, U. Nopmongkol, M. Prank, K.N. Sartelet, A. Segers, J.D. Silver, G. Yarwood, J. Werhan, J. Zhang, S.T. Rao and S. Galmarini (2013) **Evaluating the capability of regional-scale air quality models to capture the vertical distribution of pollutants**. Geoscientific Model Development, 6, 791–818. <http://www.geosci-model-dev.net/6/791/2013/>
41. Solazzo E., R. Bianconi, G. Pirovano, M.D. Moran, R. Bellasio and S. Galmarini (2012) **Air Quality Ground-Based Observational Data for Evaluating Regional-Scale Models: The AQMEII Experience**. Environmental Manager, July 2012, 12-20, Air & Waste Management Association.
40. Bellasio R., S. Scarpato, R. Bianconi and P. Zeppa (2012) **APOLLO2, a new long range Lagrangian particle dispersion model and its evaluation against the first ETEX tracer release**. Atmospheric Environment, 57, 244-256.
39. Bellasio R. e R. Bianconi (2012) **The LAPMOD modelling system for simulating atmospheric pollution in complex orography** (in Italian). Ingegneria Ambientale, vol. XLI, n. 6, 492-500.
38. Solazzo E., R. Bianconi, G. Pirovano, M. Volker, R. Vautard, K.W. Appel, B. Bessagnet, J. Brandt, J.H. Christiansen, C. Chemel, I. Coll, J. Ferreira, R. Forkel, X.V. Francis, G. Grell, P. Grossi, A. Hansen, A.I. Miranda, M.D. Moran, U. Nopmongkol, M. Prank, K.N. Sartelet, M. Schaap, J.D. Silver, R.S. Sokhi, J. Vira, J. Werhan, R. Wolke, G. Yarwood, J. Zhang. S.T. Rao and S. Galmarini (2012) **Operational model evaluation for particulate matter in Europe and North America in the context of the AQMEII project**. Atmospheric Environment, 53, 60-74.
37. Solazzo E., R. Bianconi, R. Vautard, B. Bessagnet, C. Chemel, I. Coll, J. Ferreira, R. Forkel, X.V. Francis, P. Grossi, A.I. Miranda, M.D. Moran, U. Nopmongkol, G. Pirovano, K.N. Sartelet, R.S. Sokhi, J. Werhan, R. Wolke, G. Yarwood, J. Zhang. S.T. Rao and S. Galmarini (2012) **Ensemble modelling and diagnostic model evaluation for surface-level Ozone in Europe and North America**. Atmospheric Environment, 53, 75-92.
36. Galmarini S., R. Bianconi, W. Appel, E. Solazzo, S. Mosca, P. Grossi, M. Moran, K. Schere, S.T. Rao (2012) **ENSEMBLE and AMET: two systems and approaches to a harmonized, simplified and efficient assistance to air quality models development and evaluation**. Atmospheric Environment, 53, 51-59.
35. Vautard R., M.D. Moran, E. Solazzo, R.C. Gilliam, V. Matthias, R. Bianconi, C. Chemel, J. Ferreira, B. Geyer, A.B. Hansen, A. Jericevic, M. Prank, A. Segers, J.D. Silver, J. Werhahn, R. Wolke, S.T. Rao and S. Galmarini (2012) **Evaluation of the meteorological forcing used for the Air Quality Model Evaluation International Initiative (AQMEII) air quality simulations**. Atmospheric Environment, 53, 15-37.
34. Syrakov D, M. Prodanova, S. Galmarini, E. Solazzo, R. Bellasio, R. Bianconi, A. Jones, R. Buckley, S. Potempski and M. Martet (2011) **Model simulation of air pollution due to April 2010 Iceland volcano eruption**. Journal of International Scientific Publications: Ecology and Safety, Vol. 5, Part 1, 123-142. [Abstract](#)
33. Scarpato S., P. Zeppa, R. Bellasio, R. Bianconi (2011) **Valutazione dell'impatto radiologico di rilasci in atmosfera a seguito di incidenti nucleari**. IA Ingegneria Ambientale vol. XL n. 3 maggio-giugno 2011, 207-220. [Abstract](#)

32. Galmarini S., R.Bianconi, G. de Vries and R.Bellasio (2008) **Real-time monitoring data for real-time multi-model validation: coupling ENSEMBLE and EURDEP**. Journal of Environmental Radioactivity, 99, 1233-1241. [Abstract](#)
31. Potemski S., S. Galmarini, R. Addis, P. Astrup, S. Bader, R. Bellasio, R. Bianconi, F. Bonnardot, R. Buckley, R. D'Amours, A. van Dijk, G. Geertsema, A. Jones, P. Kaufmann, U. Pechinger, C. Persson, E. Polreich, M. Prodanova, L. Robertson, J. Sørensen, D. Syrakov (2008) **Multi-model ensemble analysis of the ETEX-2 experiment**, Atmospheric Environment 42, 7250–7265. [Abstract](#)
30. Bellasio R., R.Bianconi, G.Corda and P.Cucca (2007) **Emission inventory for the road transport sector in Sardinia (Italy)**. Atmospheric Environment, 41, 2, 677-691. [Abstract](#)
29. Stern R.M., R.J.Yamartino, R.Bellasio, R.Bianconi, G.Corda and P.Cucca (2007) **Inquinamento fotochimico sul Mediterraneo occidentale: il ruolo delle emissioni antropiche della Sardegna**. Ingegneria Ambientale, Vol. XXXVI, n. 1-2, 38-46. [Abstract](#)
28. Vitali L., F. Monforti, R. Bellasio, R. Bianconi, V. Sacchero, S. Mosca and G. Zanini (2006) **Validation of a Lagrangian dispersion model implementing different kernel methods for density reconstruction**. Atmospheric Environment, 40, 40, 8020-8033. [Abstract](#)
27. Benassi A., Marson G., Baraldo E., Dalan F., Lorenzet K., Bellasio R. e Bianconi R. (2006) **Una metodologia oggettiva per la valutazione del posizionamento delle stazioni di monitoraggio della qualità dell'aria**. Ingegneria Ambientale, Vol. XXXV, n. 6, 286-294.
26. Presotto L., R.Bellasio and R.Bianconi (2005) **Assessment of the visibility impact of a plume emitted by a desulphuration plant**. Atmospheric Environment, 39(4), 719-737. [Abstract](#)
25. Bellasio R. and R. Bianconi (2005) **On line simulation system for industrial accidents**. Environmental Modelling and Software, 20, 3, 329-342. [Abstract](#)
24. Bellasio R., G.Maffei, J.Scire, M.G.Longoni, R.Bianconi and N.Quaranta (2005) **Algorithms to account for topographic shading effects and surface temperature dependence on terrain elevation in diagnostic meteorological models**. Boundary-Layer Meteorology, 114, 595-614. [Abstract](#)
23. Bianconi R., S. Galmarini e R. Bellasio (2004) **A WWW-based decision support system for the management of accidental releases of radio nuclides in the atmosphere**. Environmental Modelling and Software, 19, 401-411. [Abstract](#)
22. Galmarini S., R.Bianconi, W.Klug, T.Mikkelsen, R.Addis, S.Andronopoulos, P.Astrup, A.Baklanov, J.Bartniki, J.C.Bartzis, R.Bellasio, F.Bompay, R.Buckley, M.Bouzom, H.Champion, R.D'Amours, E.Davakis, H.Eleveld, G.T.Geertsema, H.Glaab, M.Kollax, M.Ilvonen, A.Manning, U.Pechinger, C.Persson, E. Polreich, S.Potemski, M.Prodanova, J.Saltbones, H.Slaper, M.A.Sofev, D.Syrakov, J.H.Soerensen, L.Van der Auwera, I.Valkama and R.Zelazny (2004) **Ensemble dispersion forecasting, Part I: Concept, approach and indicators**. Atmospheric Environment, 38, 28, 4607-4617. [Abstract](#)
21. Galmarini S., R.Bianconi, R.Addis, S.Andronopoulos, P.Astrup, J.C.Bartzis, R.Bellasio, R.Buckley, H.Champion, M.Chino, R.D'Amours, E.Davakis, H.Eleveld, H.Glaab, A.Manning, T.Mikkelsen, U.Pechinger, E.Polreich, M.Prodanova, H.Slaper, D.Syrakov, H.Terada, L.Van der Auwera (2004) **Ensemble dispersion forecasting, Part II: application and evaluation**. Atmospheric Environment, 38, 28, 4619-4632. [Abstract](#)
20. Del Furia L., R. Bianconi e R. Bellasio (2004) **La valutazione di impatto ambientale (VIA) per gli interventi di recupero delle grandi aree urbane dismesse**, Ingegneria Ambientale, vol. XXXIII, 3-4, 77-90. [Abstract](#)

19. Galmarini S., R. Bianconi, W. Klug, T. Mikkelsen, R. Addis, S. Andronopoulos, P. Astrup, A. Baklanov, J. Bartniki, J. C. Bartzis, R. Bellasio, F. Bompay, R. Buckley, M. Bouzom, H. Champion, R. D'Amours, E. Davakis, H. Eleveld, G. T. Geertsema, H. Glaab, M. Kollax, M. Ilvonen, A. Manning, U. Pechinger, C. Persson, E. Polreich, S. Potemski, M. Prodanova, J. Saltbones, H. Slaper, M. A. Sofev, D. Syrakov, J. H. Soerensen, L. Van der Auwera, I. Valkama and R. Zelazny (2004) **Can the confidence in long range atmospheric transport models be increased? The pan european experience of ENSEMBLE**. Radiation Protection Dosimetry, 109, 1-2, 19-24. [Abstract](#)
18. Monforti F., R. Bellasio, R. Bianconi, G. Clai and G. Zanini (2004) **An evaluation of particle deposition fluxes to cultural heritage sites in Florence, Italy**. Science of the Total Environment, 334, 61-72. [Abstract](#)
17. Bellasio R., R. Bianconi e T. Zucca (2003) **Impatto termico e atmosferico di una torcia industriale**. Impiantistica Italiana, Anno XV, n. 6, 37-44.
16. Quaranta N., De Martini A., Bellasio R., Bianconi R., Marioni M. (2002) **A decision support system for the simulation of industrial accidents**. Environmental Modelling & Software, Vol. 17, n. 6, 497-504. [Abstract](#)
15. Galmarini S., Bianconi R., Bellasio R. and Graziani G. (2001) **Forecasting the consequences of accidental releases of radionuclides in the atmosphere from ensemble dispersion modelling**, J. of Environmental Radioactivity, 57, 3, 203-219.
14. Monforti F., Zanini G., Bellasio R., Bianconi R. (2001) **Aerosol atmosferico: rassegna critica delle tecniche di modellazione**. Ingegneria Ambientale, Anno XXX, N. 6, 325-339.
13. Galmarini S., Bianconi R., Bellasio R. and Graziani G. (2001) **DAM: Datasets for atmospheric modelling** (Announcement), Atmospheric Environment, 35, 2431.
12. Bellasio R., Bianconi R., Mosca S., Girardi F., Graziani G. and Klug W. (2000) **Simulation of the second ETEX release in the proximity of the source**, Int. J. Environment and Pollution, Vol. 14, N. 1-6, 296-306.
11. Bellasio R., R. Bianconi, G. Graziani and S. Mosca (1999) **RTMOD: An Internet based system to analyse the predictions of long-range atmospheric dispersion models**, Computers and Geosciences, 25, 7, 819-833.
10. Mosca S., G. Graziani, W. Klug, R. Bellasio and R. Bianconi (1998) **A statistical methodology for the evaluation of long-range dispersion models: an application to the ETEX exercise**. Atmospheric Environment, 32, 4307-4324. [Abstract](#)
9. Skouloudis A.N., Bianconi R. and Bellasio R. (1998) Air quality prognosis for the implementation of abatement strategies in large urban areas. Environmental Monitoring and Assessment, Vol. 52, N. 1-2, 185-201.
8. Bellasio R. e R. Bianconi (1997) **Metodologie per la costruzione degli inventari delle emissioni in atmosfera**. Ingegneria Ambientale, XXVI, n. 11-12, 617-626.
7. Longoni M.G., R. Bellasio, R. Bianconi, G. Lanzani, G. Maffei and M. Tamponi (1996) **Results of sensitivity analysis of some methods to evaluate scaling parameters**. Int J. Environment and Pollution, 7, n. 5-7
6. Longoni M.G., R. Bellasio, R. Bianconi, G. Lanzani, G. Maffei and M. Tamponi (1996) **Modellazione della stabilità dello strato atmosferico superficiale a partire da misure meteorologiche standard**. Istituto Lombardo (Rend. Sc.), B 130, 219-236
5. Andretta M., R. Bianconi, W. Flospergher, M. Tamponi (1994) **MRBT: modello per la dispersione atmosferica in seguito a rilasci istantanei, continui e di breve durata**. Acqua & Aria, 6, 529-538.

4. Bianconi R., G. Gagliano, L. Merendi, S. Rinelli, M. Tamponi (1994) **Impatto di provvedimenti viabilistici sugli inquinanti primari nelle aree urbane**. Esempi di applicazione. Le Strade, XCVI, 1300, 176-181.
3. Bianconi R., M. Tamponi (1993) **A mathematical model of diffusion from a steady source of short duration in a finite mixing layer**. Atmospheric Environment, 27A, 781-792. [Abstract](#)
2. Andretta M., R. Bianconi, W. Flospergher, M. Tamponi (1993) **The MRBT model: an analytical dispersion model in a finite mixing layer. Sensitivity analysis and validation against tracer measurements**. Atmospheric Environment, 27A, 1665-1672. [Abstract](#)
1. Bianconi R., M.C. Cirillo, G. Gianotti, S. Mosca, G. Tebaldi, T. Tirabassi, M. Tamponi (1991) **Analisi di sensibilità per alcuni modelli di dispersione di inquinanti primari in atmosfera: il DIMULA, l'ISC ed il KAPPAG**, Acqua & Aria, 5, 479-487.

#### Conference contributions

- 37 Hernández-Ceballos M., S.Galmarini, S.Hanna, T.Mazzola, J.Chang, R.Bianconi and R. Bellasio (2016) **UDINEE Project: The First Multi-model Urban Dispersion Model Comparison for Radiological Dispersion Device Releases**. Twentieth Annual George Mason University Conference on Atmospheric Transport and Dispersion Modeling. Fairfax, VA, USA. June 14-16, 2016.
36. Hernández-Ceballos M., S.Galmarini, S.Hanna, T.Mazzola, J.Chang, R.Bianconi and R. Bellasio (2016) **UDINEE Project: First Results Comparing Observed and Modeled Time Series and Spatial Model Forecasting Results**. Twentieth Annual George Mason University Conference on Atmospheric Transport and Dispersion Modeling. Fairfax, VA, USA. June 14-16, 2016.
35. Hernández Ceballos M., S. Galmarini, S. Hanna, T. Mazzola, J. Chang, R. Bianconi, R. Bellasio (2016) **UDINEE project: international platform to evaluate urban dispersion models' capabilities to simulate Radiological Dispersion Device**. 17th conference on "Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes. Budapest (Hungary), 9 May 2016
34. Curci G., Hogrefe, C., Bianconi, R., Im, U., Balzarini, A., Baro, R., Brunner, D., Forkel, R., Giordano, L., Hirtl, M., Honzak, L., Jimenez-Guerrero, P., Knote, C., Langer, M., Makar, P.A., Pirovano, G., Perez, J.L., San Jose, R., Syrakov, D., Tuccella, P., Werhahn, J., Wolke, R., Zabkar, R., Zhang, J., Galmarini, S. (2015) **Sensitivity of Aerosol Optical Depth, Single Scattering Albedo, and Phase Function calculations to assumptions on Physical and Chemical Properties of aerosol**. European Aerosol Conference, 6-11 September 2015, Milan, Italy
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