Roberto Bianconi

Senior Associate, EnviroComp Consulting, Inc.
Senior Member, The EnviroComp Institute
Co-owner, Enviroware srl
rbianconi@enviroware.com

Education
Degree in Physics ("Dottore in Fisica, Laurea Magistrale") at Milan University (Italy). Thesis about development and application of a Lagrangian particle model for atmospheric dispersion

Professional Experience
<u>2012 – present</u>

Senior Associate of EnviroComp Consulting, Inc, California

<u>1997 - present</u>

Co-owner and project manager of Enviroware 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 https://www.enviroware.com)

<u>1994 - 1997</u>

Founder and scientific responsible of IDEA – Environmental Consulting

<u>1994</u>

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

<u>1994</u>

Scientific consultant for Failure Analysis Associates, Inc, California

<u>1992 - 1993</u>

Scientific stagiaire at JRC European Commission, Ispra (Italy)

<u>1992 - 1993</u>

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

Skills
<u>Air quality and meteorological modelling</u>

- Developer of mathematical models for the atmospheric dispersion of pollutants (MRBT, TOXFLAM, PLPM, LAPMOD)
- Project manager for several air quality and odor impact assessment studies using US-EPA preferred and suggested air quality models (AERMOD, CALPUFF, ISC, CALINE3) and meteorological models and related processors (WRF, CALMET, CALWRF, MMIF, AERMET)

- Developer of web platforms for evaluating models' performance in international benchmarks (RTMOD, ENSEMBLE, ESCOMPTE, UDINEE) including the preparation of all meteorological and air quality datasets of reference.
- Developer of web platforms for online model simulation (AQWEB, AMS)
- Develper of the MeteoData service providing meteorological datasets for modeling https://www.enviroware.com/meteodata/

Scientific Activity

- More than 60 peer reviewed scientific publications on many Italian and international journals (Updated list available at http://www.researchgate.net/profile/Roberto_Bianconi).
- Participation to several international projects on air quality and nuclear preparedness (RTMOD, ENSEMBLE, URANUS, UDINEE, AQMEII1/2/3/4).

Computer programming

Perl / Python / Fortran: 30 years programming experience

- Designer and developer of several web-based platforms, including: RTMOD[1], a system for long-range model output intercomparison, within a Concerted Action of the European Commission; ENSEMBLE[2,3], a model evaluation platform started within the 4th and 5th 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 transformation and representation.
- Developer of computer models for simulating the atmospheric dispersion of pollutants due to accidental or controlled releases. These models include the analytical model MRBT[4,5] and the Lagrangian particle models PLPM[6] and LAPMOD[7].
- Developer of computer codes for data processing and format conversion of regional air quality models.

Server and network administration

- More than 25 years experience as system administrator. All informatics and network 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 Linux, Windows and OS X operating systems.

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. 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.

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.

<u>Cloud computing</u>

- Eight years of experience with Amazon AWS cloud computing services (design and implementation of a high computational power fleet based on EC2 instances and EFS elastic file system) for running the meteorological model WRF and related processors (CALWRF, MMIF).

Scientific publications and conference contributions
- 65 peer-reviewed scientific publications
- 50 contributions to conferences

Scientific journals

65. Bellasio R. and Bianconi R. (2022) **A Heuristic Method for Modeling Odor Emissions from Open Roof Rectangular Tanks**. Atmosphere, 13(3), 367, 2022. https://www.mdpi.com/2073-4433/13/3/367

64. S. Galmarini, P. Makar, O.E. Clifton, C. Hogrefe, J.O. Bash, R. Bellasio, R. Bianconi, J. Bieser, T. Butler, J. Ducker, J. Flemming, A. Hodzic, C.D. Holmes, I. Kioutsioukis, R. Kranenburg, A. Lupascu, J.L. Perez-Camanyo, J. Pleim, Y. Ryu, R. San Jose, D. Schwede, S. Silva, and R. Wolke (2021) **Technical note: AQMEII4 Activity 1: evaluation of wet and dry deposition schemes as an integral part of regional-scale air quality models**. Atmos. Chem. Phys., 21, 15663-15697, 2021. https://doi.org/10.5194/acp-21-15663-2021.

63. Palacios-Pena L., P. Jimenez-Guerrero, A. Balzarini, R. Baro, R. Bianconi, G. Curci, T.C. Landi, G. Pirovano, M. Prank, A. Riccio, P. Tuccella and S. Galmarini (2019) **Aerosol optical properties over Europe: an evaluation of the AQMEII Phase 3 simulations against satellite observations**. Atmos. Chem. Phys., 19, 2965-2990, 2019. https://dx.doi.org/10.5194/acp-19-2965-2019.

62. Hernandez-Ceballos M.A, S. Hanna, R. Bianconi, R. Bellasio, T. Mazzola, J. Chang, S. Andronopoulos, P. Armand, N. Benbouta, P. Carny, N. Ek, E. Fojcikova, R. Fry, L. Huggett, P. Kopka, M. Korycki, L. Liptak, S. Millington, S. Miner, O. Oldrini, S. Potempski, G.L. Tinarelli, S. Trini Castelli, A Venetsanos and S. Galmarini (2019) **UDINEE: Evaluation of Multiple Models with Data from the JU2003 Puff Releases in Oklahoma City. Part I: Comparison of Observed and Predicted Concentrations**. Boundary-Layer Meteorol (2019). https://doi.org/10.1007/s10546-019-00433-8.

61. Hernandez-Ceballos M.A, S. Hanna, R. Bianconi, R. Bellasio, T. Mazzola, J. Chang, S. Andronopoulos, P. Armand, N. Benbouta, P. Carny, N. Ek, E. Fojcikova, R. Fry, L. Huggett, P. Kopka, M. Korycki, L. Liptak, S. Millington, S. Miner, O. Oldrini, S. Potempski, G.L. Tinarelli, S. Trini Castelli, A Venetsanos and S. Galmarini (2019) **UDINEE: Evaluation of Multiple Models with Data from the JU2003 Puff Releases in Oklahoma City. Part II: Simulation of Puff Parameters**. Boundary-Layer Meteorol (2019). https://doi.org/10.1007/s10546-019-00434-7.

60. Curci, G., Alyuz, U., Baro, R., Bianconi, R., Bieser, J., Christensen, J. H., Colette, A., Farrow, A., Francis, X., Jimenez-Guerrero, P., Im, U., Liu, P., Manders, A., Palacios-Pena, L., Prank, M., Pozzoli, L., Sokhi, R., Solazzo, E., Tuccella, P., Unal, A., Vivanco, M. G., Hogrefe, C., and Galmarini, S. (2019) **Modelling black carbon absorption of solar radiation: combining external and internal mixing assumptions**, Atmos. Chem. Phys., 19, 181-204, https://doi.org/10.5194/acp-19-181-2019.

59. Bellasio, R., Bianconi, R., Mosca, S., and Zannetti, P. (2018) **Incorporation of Numerical Plume Rise Algorithms in the Lagrangian Particle Model LAPMOD and Validation against the Indianapolis and Kincaid Datasets**. Atmosphere, 9(10), 404, https://doi.org/10.3390/atmos9100404

58. Astitha M., I. Kioutsioukis, G.A. Fisseha, R. Bianconi, J. Bieser, J., Christensen, O.R. Cooper, S. Galmarini, C. Hogrefe, U. Im, B. Johnson, P. Liu, U. Nopmongcol A., I. Petropavlovskikh, E. Solazzo, D.W. Tarasick and G. Yarwood (2018) **Seasonal ozone vertical profiles over North America using the AQMEII3 group of air quality models: model inter-comparison and stratospheric intrusions**, Atmos. Chem. Phys., https://doi.org/10.5194/acp-18-13925-2018.

57. Galmarini, S., Kioutsioukis, I., Solazzo, E., Alyuz, U., Balzarini, A., Bellasio, R., Benedictow, A. M. K., Bianconi, R., Bieser, J., Brandt, J., Christensen, J. H., Colette, A., Curci, G., Davila, Y., Dong, X., Flemming, J., Francis, X., Fraser, A., Fu, J., Henze, D., Hogrefe, C., Im, U., Garcia Vivanco, M., Jimenez-Guerrero, P., Jonson, J. E., Kitwiroon, N., Manders, A., Mathur, R., Palacios-Pena, L., Pirovano, G., Pozzoli, L., Prank, M., Schultz, M., Sokhi, R. S., Sudo, K., Tuccella, P., Takemura, T., Sekiya, T., and Unal, A. (2018) **Two-scale multi-model ensemble: Is a hybrid ensemble of opportunity telling us more?**, Atmos. Chem. Phys. Discuss., https://doi.org/10.5194/acp-2018-86, in review, 2018.

56. Vivanco, M. G., Theobald, M. R., Garcia-Gomez, H., Garrido, J. L., Prank, M., Aas, W., Adani, M., Alyuz, U., Andersson, C., Bellasio, R., Bessagnet, B., Bianconi, R., Bieser, J., Brandt, J., Briganti, G., Cappelletti, A., Curci, G., Christensen, J. H., Colette, A., Couvidat, F., Cuvelier, K., D'Isidoro, M., Flemming, J., Fraser, A., Geels, C., Hansen, K. M., Hogrefe, C., Im, U., Jorba, O., Kitwiroon, N., Manders, A., Mircea, M., Otero, N., Pay, M.-T., Pozzoli, L., Solazzo, E., Tsyro, S., Unal, A., Wind, P., and Galmarini, S. (2018) **Modelled deposition of nitrogen and sulfur in Europe estimated by 14 air quality model-systems: Evaluation, effects of changes in emissions and implications for habitat protection**, Atmos. Chem. Phys. Discuss., https://doi.org/10.5194/acp-2018-104, in review, 2018.

55. R. Bellasio, R. Bianconi, S. Mosca and P. Zannetti (2017) **Formulation of the Lagrangian particle model LAPMOD and its evaluation against Kincaid SF6 and SO2 datasets**. Atmospheric Environment, Vol. 163, pp. 87-98. doi:10.1016/j.atmosenv.2017.05.039

54. Im U., J. Brandt, C. Geels, K.M. Hansen, J.H. Christensen, M.S. Andersen, E. Solazzo, I. Kioutsioukis, U. Alyuz, A. Balzarini, R. Baro, R. Bellasio, R. Bianconi, J. Bieser, A. Colette, G. Curci, A. Farrow, J. Flemming, A. Fraser, P. Jimenez-Guerrero, N. Kitwiroon, C. Liang, G. Pirovano, L. Pozzoli, M. Prank, R. Rose, R. Sokhi, P. Tuccella, A. Unal, M.G. Vivanco, J. West, G. Yarwood0, C. Hogrefe and s. Galmarini (2017) **Assessment and economic valuation of air pollution impacts on human health over Europe and the United States as calculated by a multi-model ensemble in the frame work of AQMEII3**.Atmos. Chem. Phys. Discuss., https://doi.org/10.5194/acp-2017-751.

53. E. Solazzo, R. Bianconi, C. Hogrefe, G. Curci, U. Alyuz, A. Balzarini, R. Baro, R. Bellasio, J. Bieser, J. Brandt, J. Christensen, A. Colette, X. Francis, A. Fraser, M. Garcia-Vivanco, P. Jimenez-Guerrero, U. Im, A. Manders, U. Nopmongcol, N. Kitwiroon, G. Pirovano, L. Pozzoli, M. Prank, R. Sokhi, P. Tuccella, G. Yarwood, and S. Galmarini (2017) **Evaluation and error apportionment of an ensemble of atmospheric chemistry dispersion modelling systems: multi-variable temporal and spatial breakdown**. Atmospheric Chemistry and Physics, doi:10.5194/acp-17-3001-2017, http://www.atmos-chem-phys.net/17/3001/2017/

52. Kioutsioukis I., U. Im, E. Solazzo, R. Bianconi, A. Badia, A. Balzarini, R. Baro, R. Bellasio, D. Brunner, C. Chemel, G. Curci, H. van der Gon, J. Flemming, R. Forkel, L. Giordano, P. Jimenez-Guerrero, M. Hirtl, O. Jorba, A. Manders-Groot, L. Neal, J.L. Perez, G. Pirovano, R. San Jose, N. Savage, W. Schroeder, R.S. Sokhi, D. Syrakov, P. Tuccella, J. Werhahn, R. Wolke, C. Hogrefe, and S. Galmarini (2016) **Insights into the deterministic skill of air quality ensembles from the analysis of AQMEII data**, Atmos. Chem. Phys., 16, 15629-15652, doi:10.5194/acp-16-15629-2016, 2016.

51. Kioutsioukis I., U. Im, E. Solazzo, R. Bianconi , A. Badia, A. Balzarini, R. Baro, R. Bellasio, D. Brunner, C. Chemel, G. Curci, H. van der Gon, J. Flemming, R. Forkel, L. Giordano, P. Jimenez-Guerrero, M. Hirtl, O. Jorba, A. Manders-Groot, L. Neal, J.L. Perez, G. Pirovano, R. San Jose, N. Savage, W. Schroeder, R.S. Sokhi, D. Syrakov, P. Tuccella, J. Werhahn, R. Wolke, C. Hogrefe, and S. Galmarini (2016) **Improving the deterministic skill of air quality ensembles. Atmospheric Chemistry and Physics**, doi:10.5194/acp-2016-513

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

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43. Forkel R., A. Balzarini, R. Baró, R. Bianconi, G. Curci, P. Jiménez-Guerrero, M. Hirtl, L. Honzak, C. Lorenz, U. Im, 1, 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. Nopmongcol, 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. Nopmongcol, 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.

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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 an 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. Potempski 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

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