

PERSONAL INFORMATION

Title [DR]
Name VALENTINA BOSETTI
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E-mail Valentina.bosetti@feem.it
Web sites <http://www.witchmodel.org/>
<http://www.icarus-project.org/>

Nationality Italian
Date of birth 25, 04, 1973



EDUCATION

PhD
University of Milano
• Date Dec 1999-Jan 2003
• Principal subjects covered “Computational Mathematics and Operational Research”
“Stochastic Programming and Decision Theory in the Management of Natural Resources”
Awards Prize Italgas 2004: DEBUT IN THE WORLD OF RESEARCH

MSc
University College London
• Date Sept. 1998 – Sept.1999
• Principal subjects covered Environmental and Resources Economics
Grants English Nature Grant

Master
University of Milan – Bicocca
• Date Feb-Jul 1998
• Principal subjects covered Statistics Techniques in Data Analysis

Degree
University of Milan – Bicocca
• Date Sept 1992- Nov 1997
• Principal subjects covered Environmental Sciences

INTERNATIONAL PRIZES-GRANTS

- ERC Starting Grant 2010-2013, Innovation for Climate chAnge mitigation: a study of energy R&d, its Uncertain effectiveness and Spillovers, <http://www.icarus-project.org/>
- Second prize for best paper at the 20th World Energy Congress, Rome, 2007
- Best Paper prize for NOAA Economics Biennial Forum, New Orleans, LA. 2004.
- Debut In The World of Research, Italgas Prize, 2004
- MSc Dissertation, English Nature Grant, 1999

PROFESSIONAL AND ACADEMIC EXPERIENCES

- Dates (from – to) September 2012-now
- Name and address of institution Bocconi University, Department Economics
- Occupation or position held **Associate Professor**
- Dates (from – to) December 2010-now

- Name and address of institution IPCC WG3 Integrated Risk and Uncertainty Assessment of Climate Change Response Policies Chapter
 - Occupation or position held **IPCC Lead Author**

- Dates (from – to) January 2010-July 2013
- Name and address of institution Fondazione Eni Enrico Mattei
 - Occupation or position held **ERC Grant** Innovation for Climate chAnge mitigation: a study of energy R&d, its Uncertain effectiveness and Spillovers – Principal Investigator

- Dates (from – to) October 2008-January 2011
- Name and address of institution Princeton Environmental Institute, New Jersey, US
 - Occupation or position held Visiting Researcher

- Dates (from – to) 2006-now
- Name and address of institution Euro-Mediterranean Center on Climate Change (CMCC), Italy
 - Occupation or position held Senior Researcher, Climate Impacts and Policy Division
 - Main activities and responsibilities Modeler; Project responsible for RECIPE, IAMC, REDD

- Dates (from – to) 2003-now
- Name and address of institution Fondazione Eni Enrico Mattei
 - Occupation or position held Senior Researcher, Sustainable Development program
 - Main activities and responsibilities Head of Climate Modelling Group; Project responsible (AMPERE, ClimTech, Transust.Scan, TOCSIN, ClimateCost)

- Dates (from – to) June 2005 – June 2006
- Name and address of institution NOAA (National Oceanic and Atmospheric Administration), National Marine Fisheries Service, Southwest Fisheries Science Center, Santa Cruz Laboratory, 110 Shaffer Road, Santa Cruz, CA 95060
 - Occupation or position held Applied Mathematician Consultant
 - Main activities and responsibilities Modeler

- Dates (from – to) March 2004
- Name and address of institution University of Milan, Department of Economics, Via Conservatorio 7 -- 20122 Milano
 - Occupation or position held Lecturer in Environmental Economics
 - Main activities and responsibilities Teaching Environmental Economics at Graduate Level

- Dates (from – to) 2003/2004 – 2004/2005 - 2005/2006
- Name and address of institution University of Sassari, Department of Architecture, Alghero (SS).
 - Occupation or position held Contract Professor in Environmental Economics
 - Main activities and responsibilities Teaching Environmental Economics and Environmental Valuation at Undergraduate Level

- Dates July 2003 and September 2004
- Name and address of institution NOAA, Santa Cruz University and National Marine Fishery Laboratory
 - Occupation or position held Visiting scientist
 - Main activities and responsibilities Developing Mathematics Techniques in Solving an Optimal Fishery Management Problem

- Dates (from – to) 2002/2003 – 2003/2004
- Name and address of institution University of Milan - Bicocca, Department of Environmental Sciences, P.zza della Scienza 1 - 20126 Milano.
 - Occupation or position held Lecturer in Environmental Valuation
 - Main activities and responsibilities Teaching Environmental Economics at Graduate Students Level

- Dates (from – to) 2000/2001 – 2001/2002 – 2002/2003
- Name and address of institution University of Milan – Bicocca
 - Occupation or position held T. A. Financial Mathematics, Operation Research and Environmental Resources Management
 - Main activities and responsibilities Teaching Operation Research, Environmental Resources Management at Graduate Students Level

- Dates (from – to) March 2003
- Name and address of institution L'école des Hautes Etudes Commerciales de l'Université de Genève (CH)
 - Occupation or position held Visiting Researcher
 - Main activities and responsibilities Research on Stochastic Programming and Economic-Climate Modelling

- Dates (from – to) April 2001
- Name and address of institution California Polytechnic, College of Business CalPoly (CA, USA)
 - Occupation or position held Visiting PhD Student
 - Main activities and responsibilities Research on Option Theory applied to Natural Resource Management

- Dates (from – to) April - May 2001
- Name and address of institution Cornell University, Department of Applied Economic and Management (NY, USA)
 - Occupation or position held Visiting PhD Student
 - Main activities and responsibilities Research on Option Theory applied to Natural Resource Management
Course on Stochastic Optimization

AFFILIATIONS/MEMBERSHIPS

EAERE, European Association of Environmental and Resource Economists
IAERE, Italian Association of Environmental and Resource Economists

PUBLICATIONS

- **Journals and Books**
 - Bosetti V., T. Longden (2013), "Light Duty Vehicle Transportation and Global Climate Policy: the Importance of Electric Drive Vehicles," Forthcoming in *Energy policy*
 - Bosetti V., E. De Cian (2013), "A good opening: the key to make the most of unilateral climate action," Forthcoming in *Environmental and Resource Economics*
 - Fiorese, G., M. Catenacci, E. Verdolini and V. Bosetti, (2013), Advanced Biofuels: Future Perspectives from an Expert Elicitation Survey, forthcoming in *Energy Policy*
 - Anadon, L. V. Bosetti, M. Bunn, M. Catenacci, and A. Lee "Expert Judgments about RD&D

and the Future of Nuclear Energy” *Environ. Sci. Technol.*, Just Accepted Publication Date (Web): September 24, 2012 (Policy Analysis)

Bosetti, V., C. Carraro, E. De Cian, E. Massetti, M. Tavoni (2012), Incentives and Stability of International Climate Coalitions: An Integrated Assessment, *Energy Policy*, Available online 12 January 2013, 10.1016/j.enpol.2012.12.035.

Bosetti, V., M. Catenacci, G. Fiorese, E. Verdolini (2012), The Future Prospect of PV and CSP Solar Technologies: An Expert Elicitation Survey, *Energy Policy* Volume 49, October 2012, Pages 308–317

Bosetti, V., Palstev, S. Reilly, J. C. Carraro (2012) Emissions Pricing to Stabilize Global Climate”, in *Fiscal Policy To Mitigate Climate Change: A Guide For Policymakers*, Ruud de Mooij, Ian W.H. Parry, and Michael Keen (eds.), International Monetary Fund

Enrica De Cian, Valentina Bosetti & Massimo Tavoni (2011), Technology innovation and diffusion in “less than ideal” climate policies: An assessment with the WITCH model, *Climatic Change*. Volume 114 Number 1

Gunnar Luderer, Valentina Bosetti, Michael Jakob, Marian Leimbach, Jan C. Steckel, Henri Waisman & Ottmar Edenhofer (2011), The economics of decarbonizing the energy system—results and insights from the RECIPE model intercomparison, *Climatic Change*. Volume 114 Number 1

Bosetti, V., and S. K. Rose (2011) Reducing carbon emissions from deforestation and forest degradation: issues for policy design and implementation. *Environment and Development Economics*, *Environment and Development Economics*, 02/2011, Vol. 16, Special Issue 4, doi:10.1017/S1355770X11000143

Bosetti, V., C. Carraro, M. Tavoni (2011) “A Timing of Mitigation and Technology Availability in Achieving a Low-Carbon World” *Environmental and Resource Economics* March 2012, Volume 51, Issue 3, pp 353-369

Bosetti, V and J. Frankel (2011) “Politically Feasible Emission Target Formulas to Attain 460 ppm CO₂ Concentrations” *Rev Environ Econ Policy* (Winter 2012) 6(1): 86-109 first published online December 14, 2011 doi:10.1093/reep/rer022

Bosetti, V. et al., (2011). What should we expect from innovation? A model-based assessment of the environmental and mitigation cost implications of climate-related R&D. *Energy Economics*, 33(6), pagg.1313-1320.

Bosetti, V, R. Lubowski, A. Golub, A Markandya, (2011) “Linking reduced deforestation and a global carbon market: implications for clean energy technology and policy flexibility” *Environment and Development Economics*, 02/2011, Vol. 16, Special Issue 4, pp 479-505

Bosetti V. (2011). “Which technologies should we pick? A comments on “Technology Interactions for Low Carbon Energy Technologies: What can we learn from a larger number of scenarios” by Haewon Chon, Leon Clarke, Page Kyle, Marshall Wise, Andy Hackbarth, and Robert Lempert” *Energy Economics* 33 (2011) 632–633

Bosetti V., D. Victor (2011). “Politics and Economics of Second-Best Regulation of Greenhouse Gases: The Importance of Regulatory Credibility” *The Energy Journal*, Vol. 32, No. 1.

Bosetti V., CARRARO C., Massetti E. Politiche e strategie economiche per il clima, *Ecosphera / Vol. 4 : Opportunità ed interdipendenze*, Torino, UTET (ISBN 8802083827) (Enciclopedia)

Bosetti, V, R. Lubowski, (eds) (2010), *Deforestation and climate Change*, London: Edward

Elgar Publishing

Bosetti, V., C. Carraro, A. Sgobbi, and M. Tavoni (2010) "Optimal Energy Investment and R&D Strategies to Stabilize Atmospheric Greenhouse Gas Concentrations", chapter in Lasry, Lautier, Fessler (eds), *The Economics of Sustainable Development*, Paris, Economica,

Bosetti, V. (2010) "Technology-Led Climate Policy. Alternative Perspective" chapter in B. Lomborg eds. *Smart Solutions to Climate Change*, Cambridge University Press.

Bosetti, V., C. Carraro, A. Sgobbi, and M. Tavoni (2009) "Modelling Economic Impacts of Alternative International Climate Policy Architectures: A Quantitative and Comparative Assessment of Architectures for Agreement", chapter in Aldy, Joseph E. and Robert N. Stavins, eds. *Post-Kyoto International Climate Policy*. Cambridge, UK: Cambridge University Press, September 2009.

Bosetti, V., C. Carraro, and M. Tavoni (2009) "Innovation and climate mitigation: a policy appraisal", chapter in Juan Delgado, Stephen Gardner, eds. *Beyond Copenhagen: A climate policymaker's handbook*. Bruegel Books, Belgium, 2009.

Bosetti, V., C. Carraro and M. Tavoni (2009) "A Chinese commitment to commit: can it break the negotiation stall?" *Climatic Change* Volume 97, Numbers 1-2, 297-303

Bosetti, V and van der Zwaan, B. (2009) "Targets and technologies for climate control. Guest Editorial Special Issue: The Economics of Climate Change: Targets and Technologies", *Climatic Change*, Volume 96, Number 3, 269-273

Bosetti, V., C. Carraro, A. Sgobbi, and M. Tavoni (2009) "Delayed Action and Uncertain Stabilisation Targets. How Much Will the Delay Cost?", *Climatic Change*, Volume 96, Number 3, 299-312

Bosetti, V., C. Carraro and M. Tavoni (2009) "Climate Change Mitigation Strategies in Fast-Growing Countries: The Benefits of Early Action." *Energy Economics*, Volume 31, Supplement 2, December 2009, Pages S144-S151

Bosetti, V., C. Carraro, E. Massetti, A. Sgobbi and M. Tavoni (2009) "Optimal Energy Investment and R&D Strategies to Stabilise Greenhouse Gas Atmospheric Concentrations", *Resource Energy Economics*, Volume 31, Issue 2, May 2009, Pages 123-137 doi:10.1016/j.reseneeco.2009.01.001

Bosetti, V., Tavoni, M., Uncertain R&D, backstop technology and GHGs stabilization, *Energy Economics* 31 (2009) S18–S26 doi:10.1016/j.eneco.2008.03.002

Bosetti, V., C. Carraro and M. Tavoni (2008) "Climate policy after 2012. Technology, Timing, Participation", *CESifo Economic Studies*, Vol. 55, 2/2009, 235–254

Bosetti, V., C. Carraro, E. Massetti (2008) "Banking Permits: Economic Efficiency and Distributional Effects", *Journal of Policy Modeling*, Volume 31, Issue 3, May-June 2009, Pages 382-403 doi:10.1016/j.jpolmod.2008.12.005

Bosetti, V. Buchner, B. (2008) "Data Envelopment Analysis of different climate policy scenarios", *Ecological Economics*, Volume 68, Issue 5, 15 March 2009, Pages 1340-1354, doi:10.1016/j.ecolecon.2008.09.007

Bosetti, V. C. Carraro, E. Massetti, M. Tavoni. (2008) "International Energy R&D Spillovers And The Economics Of Greenhouse Gas Atmospheric Stabilization", *Energy Economics*,

Bosetti, V., A. Golub, A. Markandya, E. Massetti, M. Tavoni “*Abatement Cost Uncertainty and Policy Instrument Selection. A Dynamic Analysis*”, Chapter in Golub, A., A. Markandya (eds) (2008), *Modelling Environment-Improving Technological Innovations under Uncertainty*, Routledge Publishing.

This paper has been awarded the second prize for best paper at the 20th World Energy Congress, Rome.

Bosetti, V. R. Gerlagh, and S. Schleichner (eds) (2008), *Modeling Transitions to Sustainable Development*, London: Edward Elgar Publishing

Bosetti, V., Galeotti, M. “*The impact of technical progress on sustainability policy*” chapter in Bosetti, V. R. Gerlagh, and S. Schleichner (eds) (2008), *Modeling Transitions to Sustainable Development*, London: Edward Elgar Publishing.

Bosetti, V., Lanza, A., Cassinelli, M., “*Benchmarking In Tourism Destination, Keeping In Mind The Sustainable Paradigm*” - Part II; 165-180, chapter in Matias, A., Nijkamp, P., Neto, P., (eds). *Advances in Modern Tourism Research*, Springer-Verlag Publishing (May 2007)

Tavoni, M., Sohngen, B., Bosetti, V. “*Forestry and the carbon market response to stabilize climate*”, *Energy Policy* 35 (2007) 5346–5353.

Bosetti, V. and L. Gilotte. (2007) “*The impact of Carbon Capture and Storage on Overall Mitigation Policy*”, *Climate Policy* 7 3–12.

Bosetti V., C. Carraro, M. Galeotti, E. Massetti and M. Tavoni, (2006), “*WITCH: A World Induced Technical Change Hybrid Model*”, *The Energy Journal*, Special Issue. Hybrid Modeling of Energy-Environment Policies: Reconciling Bottom-up and Top-down, 13-38.

Bosetti, V. Galeotti, M., Lanza, A. (2006) “*How Consistent are Alternative Short-Term Climate Policies with Long-Term Goals?*” *Climate Policy*, Vol 6 (3), 295-312.

Bosetti V., C. Carraro, M. Galeotti. “*The Dynamics of Carbon and Energy Intensity in a Model of Endogenous Technical Change*” *The Energy Journal*, Endogenous Technological Change and the Economics of Atmospheric Stabilisation Special Issue (2006) 93-107.

Bosetti, V., Locatelli, G., 2006. A data envelopment analysis approach to the assessment of natural parks' economic efficiency and sustainability. The case of Italian national parks. *Sustainable Development*. 14(4), 277 - 286.

Bosetti, V. Messina, E. “*Integrating Stochastic Programming and Decision Tree Techniques in Land Conversion Problems*” *Annals of Operations Research* (2006) 142: 245-260

Bosetti, V. Lanza, A. Cassinelli, M. “*Using Data Envelopment Analysis to Evaluate Environmentally Conscious Tourism Management*” - Chapter 9; 252-268, in: Lanza, A., Markandya, A., Pigliaru, F., (eds). *The Economics of Tourism and Sustainable Development*, Edward Elgar Publishing (September 2005).

Bosetti, V. Conrad, J., Messina, E. “*The Value of Flexibility: Preservation, Remediation, or Development for Ginostra?*”. *Environmental Resource Economics* (2004) 29: 219-229.

Bosetti, V. Messina, E. “*Uncertainty and Option Value in Land Allocation Problems*” *Annals of Operations Research* (2003) 124: 165-181.

Pearce, D. W. Bosetti, V. “*A Study Of Environmental Conflict: The Economic Value Of Grey Seals In South West England*” *Biodiversity and Conservation* (2003) 12 (12): 2361-2392

Bosetti, V. Messina, E., Valente, P. “*Optimisation Technologies and Environmental*

Applications" *IMA Journal of Management Mathematics* (2002) 13 (3): 167-185.

• Working papers and other publications

Fiorese, G., M. Catenacci, E. Verdolini, V. Bosetti, (2013), The Power of Biomass: Experts Disclose the Potential for Success of Bioenergy Technologies, FEEM Working Paper n. 018

Catenacci, M., E. Verdolini, V. Bosetti, G. Fiorese, N. Ameli (2012), Going Electric: Expert Survey on the Future of Battery Technologies for Electric Vehicles, FEEM Working Paper n. 093

Bosetti, V., C. Cattaneo, E. Verdolini (2012), Migration, Cultural Diversity and Innovation: A European Perspective, FEEM Working Paper n. 069 and IGIER Working Paper 469

Fiorese, G., M. Catenacci, E. Verdolini, V. Bosetti, (2012), Advanced Biofuels: Future Perspectives from an Expert Elicitation Survey, FEEM Working Paper n. 067

Bosetti, V., F. Ghersi (2012), Beyond GDP: Modelling Labour Supply as a 'Free Time' Trade-off in a Multiregional Optimal Growth Model, FEEM Working Paper n. 044

Bosetti, V., T. Longden (2012), Light Duty Vehicle Transportation and Global Climate Policy: The Importance of Electric Drive Vehicles, FEEM Working Paper n. 011

Athanassoglou, S, Bosetti, V. and DeMaere, G. (2012), Ambiguous Aggregation of Expert Opinions: The Case of Optimal R&D Investment, FEEM Working Paper n. 004 and IGIER Working Paper 468

Bosetti, V., M. Catenacci, G. Fiorese, E. Verdolini (2012), The Future Prospect of PV and CSP Solar Technologies: An Expert Elicitation Survey, FEEM Working Paper n. 001

Bosetti, V and J. Frankel (2011) "Sustainable Cooperation in Global Climate Policy: Specific Formulas and Emission Targets to Build on Copenhagen and Cancun " NBER Working Paper No. w17669, Issued in December 2011

Bosetti, V., C. Carraro, E. De Cian, E. Massetti, M. Tavoni (2011), Incentives and Stability of International Climate Coalitions: An Integrated Assessment, FEEM Working Paper n. 097

Bosetti V., E. De Cian (2011), "A good opening: the key to make the most of unilateral climate action," Fondazione Eni Enrico Mattei Working Papers No. 82, June 2011.

Bosetti, V., C. Carraro, Palstev, S. Reilly, J. (2011) Emissions Pricing to Stabilize Global Climate, FEEM Working Paper n. 080

Bosetti, V., J. Frankel, (2011) Sustainable Cooperation in Global Climate Policy: Specific Formulas and Emission Targets to Build on Copenhagen and Cancun, United Nations Development Programme, Human Development Reports. Research Paper 2011/01. November 2011

Bosetti, Valentina and Jeffrey Frankel. "Sustainable Cooperation in Global Climate Policy: Specific Formulas and Emission Targets to Build on Copenhagen and Cancun." Discussion Paper 2011-46, Harvard Project on Climate Agreements, Belfer Center for Science and International Affairs, Harvard Kennedy School, September 2011.

Bosetti, V., J. Frankel, (2011) Sustainable Cooperation in Global Climate Policy: Specific Formulas and Emission Targets to Build on Copenhagen and Cancun, FEEM Working Paper n. 066

Bosetti, V., C. Carraro and M. Tavoni, (2010) Alternative Paths toward a Low Carbon World, FEEM Working Paper n. 062

Vöhringer, F. A. Haurie, D. Guan, M. Labriet, R. Loulou, V. Bosetti, P. R. Shukla, P. Thalmann (2010) "Reinforcing the EU Dialogue with Developing Countries on Climate Change Mitigation" FEEM Working Paper No. 43

Bosetti V., C. Carraro, R. Duval and M. Tavoni (2010). "What Should We Expect from Innovation? A Model-Based Assessment of the Environmental and Mitigation Cost

Implications of Climate-Related R&D" FEEM Working Paper, 42.2009

Bosetti V., D. Victor (2010). "Politics and Economics of Second-Best Regulation of Greenhouse Gases: The Importance of Regulatory Credibility" FEEM Working Paper, 29.2010

Bosetti, V. (May 2010) Voglio Carburante dal sole, WIRED, <http://mag.wired.it/rivista/storie/voglio-carburante-dal-sole.html>

Bosetti, V and J. Frankel (2009) "Global Climate Policy Architecture and Political Feasibility: Specific Formulas and Emission Targets to Attain 460 ppm CO2 Concentrations" NBER Working Paper No. 15516, Issued in November 2009

G. Blanford V. Bosetti C. Carraro R. Richels T. F. Rutherford M. Tavoni (2009) "Breaking the climate stalemate?" VOXEU, <http://www.voxeu.org/index.php?q=node/4345>

Bosetti, V., C. Carraro, E. De Cian, R. Duval, E. Massetti and M. Tavoni (2009). "The Incentives to Participate in and the Stability of International Climate Coalitions: A Game-Theoretic Approach Using the WITCH Model." OECD Economics Department Working Papers No. 702, June 2009.

Bosetti, V., C. Carraro, A. Sgobbi, R. Duval and M. Tavoni "The Role of R&D and Technology Diffusion in Climate Change Mitigation: New Perspectives Using the Witch Model", Fondazione Eni Enrico Mattei, Working Paper N.14-2009.

Bosetti, V., C. Carraro, R. Duval, A. Sgobbi, M. Tavoni (2009) "The Role of R&D and Technology Diffusion in Climate Change Mitigation: New Perspectives using the WITCH Model" OECD Economics Department Working Paper, No. 664, OECD publishing, © OECD. doi:10.1787/227114657270.

G. Luderer, V Bosetti, M. Jakob, J Steckel, H Waisman, O Edenhofer "Towards a Better Understanding of Disparities in Scenarios of Decarbonization: Sectorally Explicit Results from the RECIPE Project", Fondazione Eni Enrico Mattei, Working Paper N.117-2009.

Bosetti, V. C. Carraro (2009) Investments and Policies to Control GHG Emissions in the Energy Sector, L'INDUSTRIA , n. 1, gennaio-marzo 2009

Bosetti, V., R. Dellink, R. Gerlagh, M. Hofkes, K. Smeekens, B. van der Zwaan, (2008), On the Economics of Carbon Capture and Sequestration. The Cost of Stabilising Greenhouse Gas Atmospheric Concentrations and the Role of CCS, Report number W-08/33, December 2008, Institute for Environmental Studies, Vrije Universiteit, The Netherlands

Bosetti, V. C. Carraro, A. Sgobbi, M. Tavoni. (2008) "Pay less, get less: An economic assessment of post-2012 climate policy proposals" VOX, 6 December 2008, <http://www.voxeu.org/index.php?q=node/2668>

Bosetti, V. C. Carraro, A. Sgobbi, M. Tavoni. (2008) "Climate policy uncertainty: Shall we hedge against it?" VOX, 14 October 2008, <http://www.voxeu.org/index.php?q=node/2426>

Bosetti, V. C. Carraro, M. Tavoni. (2008) "How can China help reduce climate policy costs?" VOX, 1 October 2008, <http://www.voxeu.org/index.php?q=node/1724>

Bosetti, V., C. Carraro, E. De Cian, A. Sgobbi and M. Tavoni (2008) "The 2008 WITCH model: new model features and baseline", *MIMEO*

Bosetti, V., C. Carraro, A. Sgobbi, and M. Tavoni (2008) " Modelling Economic Impacts of Alternative International Climate Policy Architectures: A Quantitative and Comparative Assessment of Architectures for Agreement", Discussion Paper 08-20, Harvard Project on International Climate Agreements, Belfer Center for Science and International Affairs, Harvard Kennedy School, December 2008.

Bosetti, V., C. Carraro and M. Tavoni (2008) " Delayed Participation of Developing Countries to Climate Agreements: Should Action in the EU and US be Postponed?"" , Fondazione Eni Enrico Mattei, Working Paper N.70-2008.

Bosetti, V., C. Carraro, A. Sgobbi, and M. Tavoni (2008) " Delayed Action and Uncertain

- Targets. How Much Will Climate Policy Cost?", Fondazione Eni Enrico Mattei, Working Paper N. 69-2008., Submitted to Climatic Change
- Bosetti, V., C. Carraro, E. Massetti (2008) " Banking Permits: Economic Efficiency and Distributional Effects", Fondazione Eni Enrico Mattei, Working Paper N.1-2008.
- Bosetti, V. C. Carraro, E. Massetti, M. Tavoni. (2008) "What a different world. Costs and policy for a low carbon society" VOX, 24 January 2008, <http://www.voxeu.com/index.php?q=node/890>
- Bosetti, V., R. Dellink, R. Gerlagh, M. Hofkes, K. Smeeckens and B. van der Zwaan, (2008), On the Economics of Carbon Capture and Sequestration: the Cost of Stabilising Greenhouse Gas Atmospheric Concentrations and the Role of CCS, Mimeo
- Bosetti, V., C. Carraro, E. Massetti, and M. Tavoni (2007) "Optimal Energy Investment and R&D Strategies to Stabilise Greenhouse Gas Atmospheric Concentrations", Fondazione Eni Enrico Mattei, Working Paper N.95-2007
- Bosetti, V. Carraro, C., Massetti, E., Tavoni, M. "International Energy R&D Spillovers And The Economics Of Greenhouse Gas Atmospheric Stabilization". Working Paper 82, Milan: Fondazione Eni Enrico Mattei. 2007
- Tavoni, M., Sohngen, B., Bosetti, V. "Forestry and the carbon market response to stabilize climate". Working Paper 15. Milan: Fondazione Eni Enrico Mattei. 2007
- Bosetti, V., Tavoni, M. "Uncertain R&D, Backstop Technology and GHGs Stabilization". Working Paper 5. Milan: Fondazione Eni Enrico Mattei. 2007
- Bosetti, V., Massetti, E., Tavoni, M. "The WITCH Model. Structure, Baseline, Solutions". Working Paper 10. Milan: Fondazione Eni Enrico Mattei. 2007
- Tomberlin, D., Bosetti, V. "An Iterative Finite Difference Approach to Option and Project Valuation" NOAA TECHNICAL MEMORANDUM NMFS, March 2006, NOAA-TM-NMFS-SWFSC-389
- Bosetti, V. Cassinelli, M., Lanza, A. "Benchmarking In Tourism Destination, Keeping In Mind The Sustainable Paradigm" Working Paper 12. Milan: Fondazione Eni Enrico Mattei. 2006
- Bosetti, V., Carraro, C., Galeotti, M. "Stabilisation Targets, Technical Change and the Macroeconomic Costs of Climate Change Control" Working Paper 2. Milan: Fondazione Eni Enrico Mattei. 2006
- Bosetti, V., Drouet, L. "Accounting for Uncertainty Affecting Technical Change In An Economic-Climate Model": FEEM Working Paper 147. Milan: Fondazione Eni Enrico Mattei. 2005 Submitted to Environmental Resource Economics
- Bosetti, V., Gilotte, L. "Carbon Capture and Sequestration: How much does this Uncertain Option Affect Near-Term Policy Choices" FEEM Working Paper 86. Milan: Fondazione Eni Enrico Mattei. 2005.
- Bosetti, V., Buchner, B. "Using DEA to assess the Relative Efficiency of Different Climate Policy Portfolio" FEEM Working Paper 82. Milan: Fondazione Eni Enrico Mattei. 2005. Submitted to *Ecological Economics*
- Bosetti V., C. Carraro, M. Galeotti. "The Dynamics of Carbon and Energy Intensity in a Model of Endogenous Technical Change" FEEM Working Paper 06. Milan: Fondazione Eni Enrico Mattei. 2005
- Bosetti, V., Locatelli, G. "A Data Envelopment Analysis Approach to The Assessment Of Natural Parks' Economic Efficiency And Sustainability. The Case of Italian National Parks". FEEM Working Paper 63. Milan: Fondazione Eni Enrico Mattei. 2005
- Tomberlin, D., Bosetti, V. "Participation in a Limited-Entry Fishery: An Options Approach" Presented to the NOAA Fisheries Economics Biennial Forum, New Orleans, LA. 2004. Awarded Best Paper prize for NOAA Fisheries.
- Tomberlin, D., Bosetti, V. "Solving Real Options Models of Fisheries Investment When

Salvage Value Is Difficult to Estimate" In: Proceedings of the 2004 IIFET Convention. Corvallis, OR: International Institute for Fisheries Economic

Bosetti, V., Galeotti, M., Lanza, A. "How Consistent are Alternative Short-Term Climate Policies with Long-Term Goals?" FEEM Working Paper 157. Milan: Fondazione Eni Enrico Mattei. 2004.

Bosetti, V., Tomberlin, D. "Real Options Analysis of Fishing Fleet Dynamics: A Test" FEEM Working Paper 102. Milan: Fondazione Eni Enrico Mattei. 2004

Bosetti, V., Lanza, A., Cassinelli, M. "Using Data Envelopment Analysis to Evaluate Environmentally Conscious Tourism Management". FEEM Working Paper 59. Milan: Fondazione Eni Enrico Mattei. 2004

Bosetti, V., Messina, E. "Quasi Option Value and Irreversible Choices" FEEM Working Paper 14. Milan: Fondazione Eni Enrico Mattei. 2001

Bosetti, V., Pearce, D.W. "A Study of Environmental Conflict". CSERGE Working Paper GEC 01-02. Norwich: University of East Anglia. 2001.

Bosetti, V. "Uno studio di un conflitto ambientale: il valore economico delle foche grigie della Cornovaglia" "Equilibri - Rivista per lo sviluppo sostenibile" 2/2000

Bosetti, V. "Microsimulazione e Road Pricing nella gestione del traffico urbano" "Equilibri - Rivista per lo sviluppo sostenibile" 3/1998

Referee Phd Thesis

Olivier Durand-Lasserve, CORE, Louvain-la-Neuve, Belgium, 2012

Ramiro Parrado, University Cà Foscari, Venice, 2012

Halvor Briseid Storrøsten, Oslo Universit, 2011

• Presentations and Seminars

Workshop on the Economics of Climate Change, Collège de France, October 3, 2012: "Incentives and Stability of International Climate Coalitions: An Integrated Assessment" ESOF 2012, Scientific Session on 'Adaptation or extinction?': "Responses to Climate Change" UNEP - the Green Economy, Geneva, 2011: "Green Growth?"

Ascona, SURED, 2012

Prague, EAERE, 2012

TEDXMilano May 2012

Oslo Centre for Research on Environmentally friendly Energy Workshop, Oslo (Lysebu Hotel), September 2011, "Heterogeneous Firms Trading In Ideas: An Application to Energy Technologies "

Economics for Energy Workshop, Madris, "Surveying EU Experts on Energy Technologies " May 2012

EAERE, Rome, 2011

Politics and Economics of Second-Best Regulation of Greenhouse Gases: The Importance of Regulatory Credibility WCERE, Montreal, June 2010

Expert judgment elicitation on breakthrough energy technologies and R&D programs Invited Seminar at Carnegie Mellon University Pittsburgh, 17 March 2010

Politics and Economics of Second-Best Regulation of Greenhouse Gases: The Importance of Regulatory Credibility Invited Seminar at Harvard Kennedy School of Government March 12, 2010

“Deforestation and the Global Carbon Market: Impacts on Technological Innovation”
FEEM-IEFE Seminars
January 2010

“Linking Reduced Deforestation and a Global Carbon Market: Impacts on Costs, Financial Flows, and Technological Innovation”
Climate Policy Risk and Investment Workshop
The Royal Society, London November 9-10, 2009

Discussion of “Technology Interactions for Low Carbon Energy Technologies”
Snowmass, August 2009 - Economics of Technologies Workshop

“Modelling Economic Impacts of Alternative International Climate Policy Architectures. A Quantitative and Comparative Assessment of Architectures for Agreement”
2009 International Energy Workshop (IEW) 17 Jun. 2009 - Friday 19 Jun. 2009 - Venice, Italy

“The Incentives to Participate in and the Stability of Climate Coalitions. A Global Assessment”
FEEM-ETH Zürich International Workshop on "Coalitions for Climate Cooperation. A Game-Theoretic Analysis of Post 2012 Climate Policy" 15 Jun. 2009 - Tuesday 16 Jun. 2009 - Venice, Italy

“REDD and carbon markets”
Princeton Environmental Seminars, April 2009

“Innovation and Stabilization Policies”
TOCSIN Project Workshop Cambridge, 11 December 2008

“Global carbon market and REDD”
International Workshop on REDD FEEM, Milan, 18 Nov 2008

“Verso un mondo nuovo: energia e scenari di policy per una società a basso contenuto di carbonio”
IEFE seminars, Milan, 29th September 2008

“Verso un mondo nuovo: energia e scenari di policy per una società a basso contenuto di carbonio”
XXXII Convegno di Economia e Politica Industriale, Chieti Pescara, 26-27 september 2008

“Optimal Energy Investment And R&D Strategies To Stabilise Greenhouse Gas Atmospheric Concentrations”
XX Villa Mondragone International Economic Seminar CEIS Economia Tor Vergata Foundation, July 1st – 2nd 2008

“Optimal Energy Investment And R&D Strategies To Stabilise Greenhouse Gas Atmospheric Concentrations”
European Association of Environmental and Resource Economists
Gothemburg, Sweden, 25 - 28 June 2008

“Uncertain R&D, Backstop Technology and GHGs Stabilization”
The Environment, Technology and Uncertainty, Workshop at Lysebu Hotel, Oslo 22-23 May 2008. Participation by invitation only

“Modeling Economic Impacts of Alternative International Climate Policy Architectures”
Workshop on "Post-2012 International Policy Architecture for Global Climate Change"

Thursday 15 May 2008 - Friday 16 May 2008 - Venice, Italy

“LDC Participation and International Climate Agreements”
Seminar, ETH, Zurich, 18th April 2008

“Delayed Participation of LDC in Climate Policy: a Reason to Postpone Abatement in the US and EU?”
Workshop on Modeling Technology Oriented RD&D Strategic Cooperation for Climate Change Mitigation: Methodological Issues and Alternative Policy Scenarios
Fondazione Giorgio Cini - Venice, Italy 17th-18th March 2008

“Frontiers in Economy-Climate Modelling: the FEEM - WITCH Model”
1st FEEM Conference on the Economics of Sustainable Development.
Milano, 25-26 January 2007

“Witch: World Induced Technical Change Hybrid Model”
Invited seminar at CORE.
Louvain-la-Neuve, 19 October 2006

1) “Witch: World Induced Technical Change Hybrid Model”
2) “Participation In A Limited-Entry Fishery: An Options Approach”
3) “Benchmarking In Tourism Destination, Keeping In Mind The Sustainable Paradigm”
Environmental and Resource Economists 3rd World Congress
Kyoto, Japan 3 - 7 July 2006

“Stabilisation targets, technical change and the macroeconomic costs of climate change control”
The International Environmetrics Society (TIES)
Kalmar, Sweden 18-22 June 2006

“Technical Change and GHG Emission Stabilisation”
Seminar at NOAA October
September 2005, Santa Cruz California

“Technical Change and GHG Emission Stabilisation”
A Bridge to the Future: High-Level Trans-Atlantic Dialogue on Climate Change
Broadening Participation, Reducing Costs
September 20-22, 2005, Washington

“Using Data Envelopment Analysis to Assess the Relative Efficiency of Different Climate Policies Portfolios”
3rd Meeting Of The Climate Policy Network
14-15 September 2005, Chia, Sardegna, Italy

“Using Data Envelopment Analysis to Assess the Relative Efficiency of Different Climate Policies Portfolios”
14th Annual Meeting of the European Association of Environmental and Resource Economists
23rd-26th June 2005, Bremen

“The Dynamics of Carbon and Energy Intensity in a Model of Endogenous Technological Change”
6th IAEE European Conference - Modeling in Energy Economics and Policy
2-3 September 2004, Zurich

1) “The Dynamics of Carbon and Energy Intensity in a Model of Endogenous Technical

Change”

2) “How Consistent are Alternative Short-term Climate Policies with Long-term Goals?”
Annual Meeting of the International Energy Workshop jointly organized by EMF/ IEA/IIASA
22-24 June 2004, Paris

“Using Data Envelopment Analysis to Evaluate Environmental Consciousness Management”
International Conference on Tourism and Sustainable Economic Development Macro and
Micro Economic Issues jointly organized by CRENoS (Università di Cagliari e Sassari, Italy)
and Fondazione Eni Enrico Mattei, Italy, and supported by the World Bank
19-20 September 2003, Chia Laguna Hotel, Sardinia, Italy

“The value of Flexibility”

2002 World Congress of Environmental and Resource Economists
June 24 - 27 2002, Monterey, California

1) “The value of Flexibility”

2) “Stochastic Programming Approach to Gradual Conversion Problems”
APMOD 2002 Applied Mathematical Programming and Modelling
University of Milano-Bicocca

“Valuing development options”

CRENoS Conference on “Economic Evolution of Cultural Heritage”
Invited Speaker
19-20 October 2001, Cagliari

1) “Integrating Stochastic Programming and Decision Tree Techniques in Land
Conversion Problems”

2) “The value of Flexibility”
Associazione Italiana Ricerca Operativa 2001
6-8 September 2001, Cagliari

“Investment decisions for land allocation problems”

9th International Conference on Stochastic Programming.
Humboldt-Universität zu Berlin
August 25 - 31, 2001, Berlin

“Quasi Option Value and Irreversible Choices”

AIRO 2000, Università degli Studi di Milano Bicocca.
September 2000, Milano

“A study of environmental conflict: the Economic Value of Grey Seals in South West England”

Seminario presso Università di Nuoro, Seminari di Economia Ambientale
19 May 2000, Nuoro

**PERSONAL SKILLS
AND COMPETENCES**

MOTHER TONGUE **ITALIAN**

OTHER LANGUAGES

- Reading skills **ENGLISH**
Excellent
- Writing skills **ENGLISH**
Excellent
- Verbal skills **ENGLISH**
Excellent
- Reading skills **PORTUGUESE**
Good
- Writing skills **PORTUGUESE**
Basic
- Verbal skills **PORTUGUESE**
Good

COMPUTER SKILLS **MATLAB, OPTIMIZATION PLATFORMS: MPL, GAMS**
DATA ANALYSIS: STATA, FRONTIER ANALYSIS
WEB DESIGNING: FRONT PAGE

HOBBIES **CAPOEIRA (A BRAZILIAN MARTIAL ART)**