

# Valentina Bosetti

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## Current Positions

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- Full Professor at the Department of Economics, Bocconi University
- Senior Scientist RFF-CMCC European Institute on the Economy and the Environment

## Education

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- Statale University of Milano, Phd in Computational Mathematics and Operational Research, (Dec 1999- Jan 2003), thesis “Stochastic Programming and Decision Theory in the Management of Natural Resources”
  - Awarded Prize Italgas 2004: DEBUT IN THE WORLD OF RESEARCH
- University College London, MSc Environmental and Resources Economics, (Sept. 1998 – Sept.1999),
  - Awarded English Nature Grant
- University of Milan – Bicocca, Bachelor Environmental Sciences, Sept 1992- Nov 1997

## International Prizes, Fellowships, Grants

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- **ERC Starting Grant** 2014-2019, RISK and uncertainty in developing and Implementing Climate change policies
- Fellow at the **Center for Advanced Studies in Behavioral Sciences**, (CASBS) Stanford, 2014-2015
- **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

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2017-now, Full Professor, Bocconi University, Department Economics

2018-now, Senior Scientist, RFF CMCC European Institute on the Economy and the Environment

2006-now, Senior Scientist, Euro-Mediterranean Center on Climate Change (CMCC), Italy

2014- now, P.I. ERC Starting Grant on RISK and uncertainty in developing and Implementing Climate change policies, RISICO.

2012- 2017, Associate Professor, Bocconi University, Department Economics

2003-2018, Senior Researcher, Fondazione Eni Enrico Mattei

2014- 2015 Fellow at the Center for Advanced Studies in Behavioral Sciences, Stanford University

2010-2015, IPCC Lead Author in WG3 Chapter “Integrated Risk and Uncertainty Assessment of Climate Change Response Policies”

2010- 2013 P.I. ERC Starting Grant on Innovation for Climate change mitigation: a study of energy R&d, its Uncertain effectiveness and Spillovers, ICARUS

2008-2011, Visiting Researcher, Princeton Environmental Institute, New Jersey, US

June 2005 – June 2006, Applied Mathematician Consultant, NOAA, Santa Cruz University and National Marine Fishery Laboratory  
2004 Lecturer in Environmental Economics University of Milan, Department of Economics,  
2003/2004 – 2004/2005 - 2005/2006 Adjoint Professor in Environmental Economics University of Sassari, Department of Architecture.  
July 2003 and September 2004, Visiting scientist, NOAA, Santa Cruz University and National Marine Fishery Laboratory  
2000/2001 – 2001/2002 – 2002/2003, T. A. Financial Mathematics, Operation Research and Environmental Resources Management, University of Milan – Bicocca  
March 2003 Visiting Research, HEC l'Université de Genève (CH)  
April 2001, Visiting PhD Student, California Polytechnic, College of Business CalPoly (CA, USA)  
April - May 2001, Visiting PhD Student, Cornell University, Department of Applied Economic and Management (NY, USA)

### **Affiliations/Editorial Board/ Memberships**

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2016/2017/2018: Scientific Advisory Board, Basque Center for Climate Change  
2015-today: *Energy Policy*: International Advisory Board  
2018-today: *Economics of Disasters and Climate Change*: Editorial Board  
2015-today: *Review of Environmental Economics and Policy* (REEP): Board of Editors  
2015-today: *Nature – Energy*: Editorial Advisory Panel in Social Science and Policy.  
2018-today: CEPR Research Fellow  
2014/2015/2016/2017: Council Member of the EAERE, European Association of Environmental and Resource Economists  
2016-2017: Past-President of the IAERE, Italian Association of Environmental and Resource Economists  
2013/2015: President of the IAERE, Italian Association of Environmental and Resource Economists  
2012-today: CESifo Research Network Member

### **PUBLICATIONS**

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#### **Journals and Books (*H-index*: 35 (*Google Scholar*), 24 (*Scopus*))**

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David McCollum, Wenji Zhou, Christoph Bertram, Harmen Sytze de Boer, Valentina Bosetti, et al. (2018) "Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals" forthcoming *Nature Energy*

Mariësse A.E. van Sluisveld, Mathijs J.H.M. Harmsen, Detlef P. van Vuuren, Valentina Bosetti, Charlie Wilson, Bob van der Zwaan, (2018) Comparing future patterns of energy system change in 2°C scenarios to expert projections, *Global Environmental Change* 50 (2018) 201–211

Gillingham, K. W. D. Nordhaus, D. Anthoff, V. Bosetti, G. Blanford, P. Christensen, H. McJeon, J. Reilly, P. Sztorc (2018), Modeling Uncertainty in the Integrated Assessment of Climate Change: A Multi-Model Comparison, *JAERE*, volume 5, number 4.

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Rao, N., van Ruijven, B., Riahi, K, and Bosetti, V., (2017), Improving poverty and inequality modeling in climate research, *Nature Climate Change*, 7, pages 857–862 (2017) doi:10.1038/s41558-017-0004-x

Cattaneo, Cristina and Valentina Bosetti (2017) Climate-induced International Migration and Conflicts, *CESifo Economic Studies*, ifx010, <https://doi.org/10.1093/cesifo/ifx010> Published: 08 September 2017

Diaz Anadon, L., E. Baker, V. Bosetti (2017) Integrating uncertainty into public energy research and development decisions, *Nature Energy* 2, 17071 | DOI: 10.1038/nenergy.2017.71 |

Adler, M, D Anthoff, V Bosetti, G Garner, K Keller, and N Treich, (2017), Priority For The Worse Off And The Social Cost Of Carbon, *Nature Climate Change*, DOI: 10.1038/nclimate3298

Matthew R. Sisco, Valentina Bosetti, Elke U. Weber (2017), When do extreme weather events generate attention to climate change?, forthcoming *Climatic Change*, DOI: 10.1007/s10584-017-1984-2

Bosetti, V., E. Weber, L. Berger, D. Budescu, N. Liu, M. Tavoni (2017) COP21 Climate Negotiators' Responses to Climate Model Forecasts, *Nature Climate Change*, 7, 185-189, DOI: 10.1038/NCLIMATE3208

Ajay Gambhir, Laurent Drouet , David McCollum, Tamaryn Napp, Dan Bernie, Adam Hawkes , Oliver Fricko, Petr Havlik, Keywan Riahi, Valentina Bosetti and Jason Lowe, (2017) Assessing the Feasibility of Global Long-Term Temperature Change Mitigation Scenarios, *Energies*, 10, 89

Marangoni, G. M. Tavoni, V. Bosetti, E. Borgonovo, et al. (2017) Sensitivity of projected long-term CO<sub>2</sub> emissions across the Shared Socio-economic Pathways, *Nature Climate Change*, 7, 113–117

Bosetti, V., M. Heugues, A. Tavoni, (2017) Luring others into climate action: Coalition formation games with threshold and spillover effects, *Oxford Economic Paper*, 69(2), 2017, 410–431

Verdolini, E. and Bosetti V., (2017) Environmental Policy and the International Diffusion of Cleaner Technologies for Power, *Environmental and Resource Economics*, March 2017, Volume 66, Issue 3, pp 497–536

Keywan Riahi, et al. (2017) The Shared Socioeconomic Pathways and their Energy, Land Use, and Greenhouse Gas Emissions Implications: An Overview, *Global Environmental Change*, Volume 42 , Pages 153–168

Bosetti, V., E. Baker, L. Diaz Anadon, L. Aleluia Reis (2016) Expert views - and disagreements - about the potential of energy technology R&D, *Climatic Change*, 136:677–691

Bosetti, V. (2015) The role of renewables in the pathway towards decarbonisation, in “Towards a Workable and Effective Climate Regime”, eds. Scott Barrett, Carlo Carraro and Jaime de Melo, CEPR Press ISBN: 978-1-907142-95-6

Drouet, L., V. Bosetti, M. Tavoni (2015), Selection of climate policies under the uncertainties outlined in IPCC AR5, *Nature Climate Change* 5, 937–940 (2015)

Bosetti, V., C. Cattaneo, E. Verdolini (2015), Migration of Skilled Workers and Innovation: A European Perspective, *Journal of International Economics*, 07/2015 Volume 96, Issue 2, Pages 311-322

Baker, E., V. Bosetti, L. Diaz Anadon, (2015), Editorial Special issue on Defining robust energy R&D portfolios, *Energy Policy*, 80, 215-218

Lessmann, K., U. Kornek, V. Bosetti, et al., (2015), The stability and effectiveness of climate coalitions: A comparative analysis of multiple integrated assessment models, *Environmental and Resource Economics*, DOI 10.1007/s10640-015-9886-0.

Bosetti, V., G. Marangoni, E. Borgonovo, L. Diaz Anadon, R. Barron, H. McJeon, S. Politis, P. Friley, 2015, “Sensitivity to Energy Technology Costs: A Multi-model comparison analysis” *Energy Policy*, Volume 80, May 2015, Pages 244-263

Baker, E. , V. Bosetti, L. Diaz Anadon, M. Henrion, L. Aleluia Reis, 2015, Future Costs of Key Low-Carbon Energy Technologies: Harmonization and Aggregation of Energy Technology Expert Elicitation Data” *Energy Policy*, Volume 80, May 2015, Pages 219-232

Kriegler, E., N. Petermann, V. Krey, V. J. Schwanitz, G. Luderer, S. Ashina, V. Bosetti, et al. “Diagnostic Indicators for Integrated Assessment Models of Climate Policy.” (2015) *Technological Forecasting and Social Change*. Volume 90, Part A, January 2015, Pages 45–61

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N. Bauer, V. Bosetti, M. Hamdi-Cherif, A. Kitous, D. McCollum, A. Méjean, S. Rao, H. Turton, L.

Paroussos, S. Ashina, K. Calvin, K. Wada, D. van Vuuren, (2015) CO<sub>2</sub> emission mitigation and fossil fuel markets: Dynamic and international aspects of climate policies, *Technological Forecasting and Social Change*, Volume 90, Part A, January 2015, Pages 243–256

Kriegler, E. et al., Making or breaking climate targets: The AMPERE study on staged accession scenarios for climate policy, *Technological Forecasting and Social Change* (2015), Volume 90, Part A, January 2015, Pages 24–44

Kunreuther H., S. Gupta, V. Bosetti, R. Cooke, V. Dutt, M. Ha-Duong, H. Held, J. Llanes-Regueiro, A. Patt, E. Shittu, and E. Weber, (2014): Integrated Risk and Uncertainty Assessment of Climate Change Response Policies. In: *Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and J.C. Minx (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.

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Bosetti, V. and M. Catenacci, (eds) (2014), “Innovation under Uncertainty: The Future of Carbon-Free Energy Technologies” Edward Elgar, Series on Economics, the Environment and Sustainable Development, 2014 224 pp Hardback 978 1 78254 646 7, ebook isbn 978 1 78254 647 4

Bosetti, V. C. Carraro, E. Massetti and M. Tavoni, 2014, “Climate Change Mitigation, Technological Innovation and Adaptation” Edward Elgar, Series on Economics, the Environment and Sustainable Development, 2014 224 pp Hardback 978 1 84980 949 8

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Fiorese, G., Catenacci, M., Bosetti, V., Verdolini, E. (2014), The power of biomass: experts disclose the potential for success of bioenergy technologies, *Energy Policy*, Volume 65, February 2014, Pages 94–114.

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Bosetti V., T. Longden (2013), “Light Duty Vehicle Transportation and Global Climate Policy: the Importance of Electric Drive Vehicles,” *Energy policy*, 58, 209–219

Bosetti V., E. De Cian (2013), “A good opening: the key to make the most of unilateral climate action,” *Environmental and Resource Economics* Volume 56, Issue 2, pp 255-276

Fiorese, G., M. Catenacci, E. Verdolini and V. Bosetti, (2013), Advanced Biofuels: Future Perspectives from an Expert Elicitation Survey, *Energy Policy* Volume 56, May 2013, Pages 293–311

Bosetti, V., C. Carraro, E. De Cian, E. Massetti, M. Tavoni (2013), Incentives and Stability of International Climate Coalitions: An Integrated Assessment, *Energy Policy*, Volume 55, April 2013, Pages 44–56

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., 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

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

Luderer, G. V. Bosetti, et al. (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 CO<sub>2</sub> 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. and 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*, 30 (2008) 2912–2929, doi:10.1016/j.eneco.2008.04.008
- 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. Schleicher (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. Schleicher (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.

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

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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

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## **Working papers and other publications**

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Aydogan, I., L. Berger, V. Bosetti, N. Liu (2018). “Three layers of uncertainty: an experiment”. IGIER WP Series n.623

Massimo Tavoni, Valentina Bosetti, Soheil Shayegh, Laurent Drouet, Johannes Emmerling, Sabine Fuss, Timo Goeschl, Celine Guivarch, Thomas S. Lontzek, Vassiliki Manoussi, Juan Moreno-Cruz, Helene Muri, Martin Quaas, Wilfried Rickels (2017) Challenges and Opportunities for Integrated Modeling of Climate Engineering, Nota di Lavoro 2017.038, Milan, Italy: Fondazione Eni Enrico Mattei

Giacomo Marangoni, Gauthier De Maere, Valentina Bosetti (2017) Optimal Clean Energy R&D Investments Under Uncertainty, Nota di Lavoro 2017.016, Milan, Italy: Fondazione Eni Enrico Mattei

Stergios Athanasoglou, Valentina Bosetti, Laurent Drouet (2017) A Simple Framework for Climate-Change Policy under Model Uncertainty, Nota di Lavoro 2017.013, Milan, Italy: Fondazione Eni Enrico Mattei

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Matthew Adler, David Anthoff, Valentina Bosetti, Greg Garner, Klaus Keller, Nicolas Treich (2016) Priority for the Worse Off and the Social Cost of Carbon, Nota di Lavoro 2016.055, Milan, Italy: Fondazione Eni Enrico Mattei

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Anadon, L.D., E. Baker, V. Bosetti, L. Aleluia Reis (2016) Too Early to Pick Winners: Disagreement across Experts Implies the Need to Diversify R&D Investment FEEM Working Paper n. 22

Bosetti, V. , L.D. Anadon, L.D., E. Baker, E. Verdolini, L. Aleluia Reis (2016) "[The Future of Energy Technologies: An Overview of Expert Elicitations](#)". GGKP Research Committee on Technology and Innovation Working Paper 01. A short news article about this publication can be found [here](#).

Gillingham, K. W. D. Nordhaus, D. Anthoff, V. Bosetti, G. Blanford, P. Christensen, H. McJeon, J. Reilly, P. Sztorc (2015), Modeling Uncertainty in Climate Change: A Multi-Model Comparison, *NBER wp 21637 also FEEM WP 13*

Bosetti, V., M. Heugues, A. Tavoni, (2015) Luring Others into Climate Action: Coalition Formation Games with Threshold and Spillover Effects FEEM Working Paper n. 21

Baker, E., V. Bosetti, L. D. Anadón, M. Henrion, L. A. Reis, (2015), Costs of Key Low-Carbon Energy Technologies: Harmonization and Aggregation of Energy Technology Expert Elicitation Data FEEM Working Paper n. 45

Anadon, Laura Diaz, Valentina Bosetti, Gabriel Chan, Gregory Nemet, and Elena Verdolini. "Energy Technology Expert Elicitations for Policy: Workshops, Modeling, and Meta-analysis." Discussion Paper 2014-08, Energy Technology Innovation Policy research group, Belfer Center for Science and International Affairs, Harvard Kennedy School, October 2014 and FEEM Working Paper n. 91

Valentina Bosetti, Jeffrey Frankel A pre-Lima scorecard for evaluating which countries are doing their fair share in pledged carbon cuts, 24 November 2014, VOXEU, <http://voxeu.org/article/fair-shares-pledged-carbon-cuts>

Kai Lessmann, Ulrike Kornek, Valentina Bosetti, Rob Dellink, Johannes Emmerling, Johan Eyckmans, Miyuki Nagashima, Hans-Peter Weikard, Zili Yang (2014), The Stability and Effectiveness of Climate Coalitions: A Comparative Analysis of Multiple Integrated Assessment Models, FEEM Working Paper n. 05

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Erin Baker, Valentina Bosetti, Karen E. Jenni, Elena Claire Ricci (2014), Facing the Experts: Survey Mode and Expert Elicitation, FEEM Working Paper n. 01

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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

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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

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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

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Model-Based Assessment of the Environmental and Mitigation Cost Implications of Climate-Related R&D” FEEM Working Paper, 42.2009

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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 CO<sub>2</sub> 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>

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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. Smeekens 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 economics 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**

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Marijke van Sluisveld, Utrecht University, 2017

Francesco Lamperti, Sant'Anna Pisa, 2016

Bjart Holtmark, Economic department, Oslo University 2016

Edmundo Molina-Perez, RAND, Santa Monica, 2015

Jules Wurlod, Geneva Graduate School 2015

Julie Rozemberg, CIRED, Paris, 2013

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

Ramiro Parrado, University Cà Foscari, Venice, 2012

Halvor Briseid Storrøsten, Oslo Universit, 2011

### **Refereeing Activity**

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Climatic Change, Climate Change Economics, Global Environmental Change, Environmental and Resource Economics, Journal of Environmental Economics and Management, Energy Economics, Energy Journal, Ecological Economics, Climate Policy, Energy Policy, Nature Climate Change, International Environmental Agreements: Politics, Law and Economics, WIREs, BePress, MIT Press, Journal of Public Economics, European Journal of OR, Global Environmental Change

## Presentations and Seminars

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27 February 2018, Arctic. Last Frontier. Triennale, Milan, Italy

27 November 2017, Princeton Workshop on Understanding the Dynamics of Social Norms, Princeton University

27 November 2017, STEP Seminar, Princeton University

17 November, Science for Peace; Milan, Italy

3 October One Ocean Forum (Teatro Franco Parenti) Milano

26 September 2017 , ISTP Colloquium Seminar, ETH

18-26 July, Aspen Energy Modeling Forum

28-30 June 2017, Athens, EAERE Annual Conference

5-6 June 2017, Ugento, Annual Meeting CMCC

23rd of May, 2017, Bilbao, BC3 International Scientific Advisory Committee

15-17 May 2017, CD-Links Project Meeting

12 May 2017, Vienna Energy Forum

1-5 May, IPCC Scoping Meeting; Addis Ababa

10 April 2017, Co-Organizer, Innovative Ideas to Encourage Private Sector Investment in the REDD+, Bocconi, Coalition for Rainforest Nations, and Columbia University, Milan

3-4- April 2017, Chair, The World in 2050 IIASA, Vienna

13 March 2017, Keynote, Donor Event Bocconi

19 January 2017, Invited Seminar, IES Energy Chair, University Barcellona

19-20 January 2017, Visiting Scholar, IES Energy Chair, University Barcellona

December 2016 Workshop “Sustainable National Roadmaps Towards The Global Objective Of 1.5 And 2°C” ERI-NDRC, Beijing, China

24 November 2016, Invited Speaker OECD Workshop on Modelling The Economic Consequences Of Climate Change Action, Paris

22-23 November 2016, Moderator, Workshop on Climate-Induced Migration , FEEM Milan

14 November 2016, Invited Seminar Scuola Superiore Sant’anna Di Pisa

3-4 November 2016 Invited Speaker, Modeling Climate Engineering, FEEM Milan

July 2016, Energy Modelling Forum, Snowmass, CO

20-21 June 2016, Workshop: Understanding the impacts of climate change on growth and development, Potsdam Institute for Climate Impact Research, Potsdam, Germany

9 June 2016, Stockholm School of Economics, Seminar

30 May 2016, EuroMediterranean Center on Climate Change Workshop, Ugento

17-18 May 2016, Expert Workshop: Integrating Poverty And Inequality Dimensions In Integrated Assessment Models For Climate Change, Venice, Organizer

18-19 May 2016, CD-Links Meeting, Venice, Co-Organizer

10 May 2016, Max Weber Programme Multidisciplinary Workshop on Field and Lab Experiments in Climate Policy, European University Institute, Keynote

9<sup>th</sup> March 2016, Post COP21 Scenarios. Energy policies, finance and technology, IEFE, Keynote

December 2015, IEFE Bocconi, Seminar

July 2015, EMF, Snowmass

23 June 2015, The Interval at Long Now, San Francisco, Invited Keynote

16-18 June 2015 Tsinghua University, Harvard-Tsinghua Workshop on Energy Technology Innovation Policy in the Backdrop of the U.S.-China Emissions Deal, Invited Speaker

June 2015, AERE Conference, San Diego

May 27-28, 2015, Inequality and the Economic Analysis of Climate Change, Duke Law School Room 4047, Invited Speaker

May 2015, PERR Stanford Seminar

April 2015, CASBS at Stanford Fellow Seminar, Invited Speaker

February 2015, CRED Columbia University, Seminar

February 2015, Princeton University, Workshop on Expert Elicitation, Invited Speaker

February 2015, Stanford PPRG Seminar series

January 2015, Economics, UCSD, Seminar

December 2014, Princeton Environmental Institute: "Climate Futures Initiative Integrated Assessment Modeling Workshop", Invited Speaker

November 2014, Second Annual Workshop on Decision Making Under Deep Uncertainty, RAND Santa Monica, CA, Invited Speaker

October 2014, INFORMS, San Francisco, Speaker

October 2014, Computing Communication Consortium, Uncertainty In Computation Workshop, Washington DC, Invited Speaker

September 2014, Stanford Environmental and Energy Policy Analysis Center (SEEPAC) Seminar series

15-16 of July 2014 Workshop on Risk and Uncertainty Perception, Modelling and Climate Change Policy, Bocconi, Milan, Organizer

June 2014, WCERE 2014, Speaker

May 2014, Workshop "Equity and Integrated Assessment Models" in Paris at CIRED, Invited Speaker

30 Jun 2013- 06 Jul 2013 EAERE-FEEM-VIU European Summer School: "Uncertainty, Innovation and Climate Change" Coordinator

May 2013, Institute for International Economic Studies, Stockholm , Seminar

February 2013, Seminar at the Grantham Research Institute on Climate Change and the Environment, LSE, London, Seminar

Workshop on the Economics of Climate Change, Collège de France, October 3, 2012: "Incentives and Stability of International Climate Coalitions: An Integrated Assessment", Invited Speaker

ESOF 2012, Scientific Session on 'Adaptation or extinction?: "Responses to Climate Change", invited Speaker

UNEP - the Green Economy, Geneva, 2011: "Green Growth?", Invited Speaker

June 2012, Ascona, SURED, 2012, Speaker

June 2012, Prague, EAERE, 2012, Speaker

TEDXMilano May 2012

September 2011, Oslo Centre for Research on Environmentally friendly Energy Workshop, Oslo , Invited Speaker

May 2012, Economics for Energy Workshop, Madrid, "Surveying EU Experts on Energy Technologies ", Invited Speaker

EAERE, Rome, 2011, Speaker

WCERE, Montreal, June 2010, Speaker

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

March 2010, Harvard Kennedy School of Government, Seminar

January 2010, FEEM-IEFE Seminars

November 9-10, 2009, Climate Policy Risk and Investment Workshop The Royal Society, London, Invited Speaker

Snowmass, August 2009 - Economics of Technologies Workshop, Invited Speaker

2009 International Energy Workshop (IEW) 17 Jun. 2009 - Friday 19 Jun. 2009 - Venice, Italy

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

Princeton Environmental Seminars, April 2009

TOCSIN Project Workshop Cambridge, 11 December 2008

International Workshop on REDD FEEM, Milan, 18 Nov 2008

XXXII Convegno di Economia e Politica Industriale, Chieti Pescara, 26-27 september 2008

XX Villa Mondragone International Economic Seminar CEIS Economia Tor Vergata Foundation, July 1st – 2nd 2008

European Association of Environmental and Resource Economists  
Gothenburg, Sweden, 25 - 28 June 2008

The Environment, Technology and Uncertainty, Workshop at Lysebu Hotel, Oslo 22-23 May 2008. Participation by invitation only

Workshop on "Post-2012 International Policy Architecture for Global Climate Change" Thursday 15 May 2008 - Friday 16 May 2008 - Venice, Italy

Seminar, ETH, Zurich, 18th April 2008

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

1st FEEM Conference on the Economics of Sustainable Development. Milano, 25-26 January 2007

Invited seminar at CORE, Louvain-la-Neuve, 19 October 2006

Environmental and Resource Economists 3rd World Congress Kyoto, Japan 3 - 7 July 2006

The International Environmetrics Society (TIES) Kalmar, Sweden 18-22 June 2006

Seminar at NOAA October September 2005, Santa Cruz California

A Bridge to the Future: High-Level Trans-Atlantic Dialogue on Climate Change, Broadening Participation, Reducing Costs , September 20-22, 2005, Washington

3rd Meeting Of The Climate Policy Network, 14-15 September 2005, Chia, Sardegna, Italy

14th Annual Meeting of the European Association of Environmental and Resource Economists, 23rd-26th June 2005, Bremen

6th IAEE European Conference - Modeling in Energy Economics and Policy, 2-3 September 2004, Zurich

Annual Meeting of the International Energy Workshop jointly organized by EMF/ IEA/IIASA, 22-24 June 2004, Paris

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

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

APMOD 2002 Applied Mathematical Programming and Modelling, University of Milano-Bicocca

CRENoS Conference on “Economic Evolution of Cultural Heritage”, Invited Speaker

19-20 October 2001, Cagliari

Associazione Italiana Ricerca Operativa 2001, 6-8 September 2001, Cagliari

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

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

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