

Sebnem SAHIN

OECD Environment Directorate
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EDUCATION

- 02/2004 **Université Paris I Panthéon - Sorbonne**, PhD thesis in economics, financed by a fellowship from the **French Environmental Agency (ADEME)**.
- Since 2004 **Université Paris I Panthéon - Sorbonne**, DEA (French Master's degree) in African History. Concentration in land use, agriculture and protected forest in Burkina Faso.
- 1997 **Université Paris I Panthéon - Sorbonne**, DEA in Economic Analysis and Modeling Applied to Environment and R&D. Thesis entitled "Analysis of the Air Pollution Problem in Poland within a Computable General Equilibrium Model".
- 1996 **Université Paris II Panthéon - Assas**, DEA in International Economics and Development. Thesis entitled "Analysis of Environmental Problems in Transition Economies in the Light of the Economic Restructuring".

PROFESSIONAL EXPERIENCE

- Since 07/2005 **OECD - Environment Directorate, Paris**
Administrator. Worked on the construction of the baseline scenario of the ENV-LINKAGES model. Tested the model calibration, contributed to problem solving in GAMS programming. Drafting a methodological report on the integration of the marginal cost curves of emission mitigation as well as the consumption-production transition matrices in the model (*in progress*).
- 01 - 06/2005 *Consultant*. Calculated the sectoral labor productivities using STAN database for OECD countries and the national statistics for non-OECD countries (e.g. Russia and China). Contributed to the calibration process of the ENV-LINKAGES model.
- 11/2004 - 01/2005 *Trainee*. Conducted literature survey on the material flow indicators in developed and developing economies. Drafted a methodological paper on their integration into the ENV-LINKAGES model (*currently in revision*).
- 09-12/2004 **Université Paris I, Teaching Assistant (Chargé de TD)**. Taught DEA students in GAMS programming and General Equilibrium Analysis as applied to Developmental Economics.
- 06-08/2004 **Université Paris I and French Institute of Biodiversity, Research Fellow**. Drafted a report on the economic evaluation of the land management in Burkina Faso, based on field study interviews with the local populations on agricultural activities and protection of forests in Bobo-Dioulasso.
- 2002-2004 **ENSAI - Rennes, France, Teaching Assistant**. Taught first year engineering students in micro- and macro-economics.
- 2003 **ADEME - Paris, Research Fellow**. Provided background economic information for the European project (TR 03-EY-01) on the improvement of Energy efficiency in Turkey. Participated in the preparatory negotiations with Turkish authorities.
- 1999 **CEPII - Paris, Research Assistant**. Calculated and compared industrial sector productivities of European Union countries and Turkey, within the European project (FEMISE).
- 1999 **CEPII - United Nations (Plan Blue), Research Assistant**. Presented Turkey as a case study in measuring the impact of commercial liberalization on the environment in the Mediterranean region.
- 1999-2001 **Université de Tours, France, Assistant Professor (ATER)**. Taught first and second year students in introduction to economics.
- 1997-1999 **Ecole Centrale Paris, Teaching Assistant**. Conducted problem sessions in micro- and macro-economics. Taught courses on economies in transition and the environment.

LANGUAGES

French, English Fluent
Turkish Native language

COMPUTER KNOWLEDGE

GAMS, GAUSS, E-views, MATHEMATICA
MS Office, Access

RESEARCH ACTIVITIES

BAGNOLI P., CHATEAU J. and S. SAHIN (2005), “A Macroeconomic Baseline with Structural Change”, presented at the 8th Annual Conference on Global Economic Analysis (GTAP), Lübeck, Germany. Preliminary version:

- ENV/EPOC/GSP (2005)2, presented at the Working Party on Global and Structural Policies, OECD, Paris, France, 2005.

JABALLI O. and S. SAHIN (2005), “Towards Sustainable Lignite Consumption in Turkey and a Welfare Analysis”, Working Paper EUREQua, No: 2005.39, Paris, France. *Submitted to the Resource and Energy Economics Journal*. Preliminary version presented at:

- European Summer School in Resource and Environmental Economics “Welfare Measurement and Cost Benefit Analysis in Dynamic General Equilibrium”, 2005,
- 44th Annual Congress of the Canadian Society in Economic Science, Quebec, Canada, 2004.

BEAULATON D., CAMARA M., NICOLAÏ I., SANOU A. and S. SAHIN (2004), “Water, Health and Communities in Burkina Faso: An Interdisciplinary Analysis in a Sustainable Development Framework”, project proposal submitted to the French Research Ministry (ACI framework) (*currently in revision*).

OZERTAN G. and S. SAHIN (2004), «Factors Affecting Turkey's Agricultural Policies», accepted for the 4th International Conference in Economic Modeling (EcoMod), Paris, France.

SAHIN S. (2004), “Policy Recommendations for GHG Mitigation Policies for Turkey”, presented at the 7th Annual Conference on Global Economic Analysis (GTAP), Washington D.C., USA. Preliminary versions presented at:

- 7th International Conference in Middle East Technical University, Ankara, Turkey, 2003,
- 2nd World Congress of Environmental and Resource Economists (EAERE), Monterey, California, USA, 2002,
- 2nd International Conference in Economic Modeling (EcoMod), Free University of Brussels, Belgium, 2002,
- 4th Annual Conference on Global Economic Analysis (GTAP), Purdue University, Indiana, USA, 2001.

SAHIN S. and F. PRATLONG (2003), “Alternative Design Options in a Tradable Emission Permits Scheme: Upstream vs. Downstream Approaches”, presented at the 3rd International Conference in Economic Modeling (EcoMod), Istanbul, Turkey, 2003.

SAHIN S. and M. EL ELJ (1998), “Endogenous Growth and Pollution Problem in a General Equilibrium Framework with Environmentally Conscious Producers”, presented at the 1st Annual Conference on Global Economic Analysis (GTAP), Purdue University, Indiana, USA, 1998.

BIROL F. and S. SAHIN (1998), “An Ecological Analysis of Energy Demand in Turkey: Energy Demand and Projection of Greenhouse Gas Emissions until 2030”, ERASME Working Paper, Ecole Centrale Paris, France.

Ph.D. Thesis

“An Economic Policy Discussion of the GHG Emission Problem in Turkey from a Sustainable Development Perspective within a Regional General Equilibrium Model: TURCO”

Thesis defended at Université Paris I. Jury presided by Prof. Jean MERCENIER, including Prof. Erinc YELDAN (examinator), Prof. Katheline SCHUBERT (director of thesis).

Constructed an applied general equilibrium model to quantify the impact of a national environmental program on the Turkish economy, based on environmental taxes and a system of tradable pollution permits. In this model, Turkey is divided into different regions according to the level of industrialization and pollution in order to determine the most appropriate policies. Detailed the energy and transport sectors in order to develop a trading permits system between different regions and different sectors of production. The conclusions of the model are used to suggest a sustainable development policy respecting the international conventions on global warming.

FELLOWSHIPS, GRANTS AND AFFILIATIONS

French Environmental Agency, *PhD fellowship*, during 3 years, <http://www.ademe.fr>, 1997-1999

FEEM, *grant*, 2nd Workshop on Integrated Climate Models: an Interdisciplinary Assessment of Climate Impacts and Policies, 29-30 November, 2004 - ICTP, Trieste, Italy, <http://www.feem.it/>, 2004

Enerji Ekonomisi Dernegi (Energy Economics Association), www.traee.org, since 2004

ECOMOD network, <http://www.ecomod.net/>, since 2002

GTAP Network (Global Trade Analysis Project), <https://www.gtap.agecon.purdue.edu/>, since 1998