

PERSONAL DATA**Tagaris, Efthimios**

University of Western Macedonia

Department of Chemical Engineering

Active Urban Planning Zone (ZEP) Kozani

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EDUCATIONAL BACKGROUND

Postdoctoral Scholar (2005-2009), School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA

Ph.D Environmental Engineering (2002), Dept. of Environment, Univ. of the Aegean, Greece
Dissertation: Methane production and atmospheric dispersion around landfill sites

Environmental Science Courses (1997-1998), Dept. of Environment. Univ. of the Aegean

Diploma Physics (1989), University of Athens, Greece

PROFESSIONAL EXPERIENCE

Associate Professor (2019-today), Department of Chemical Engineering, University of Western Macedonia

Associate Professor (2018-2019), Department of Environmental Engineering, University of Western Macedonia

Adjunct Lecturer (2016-2018), Department of Environmental Engineering, University of Western Macedonia

Associate Research Scientist (2016- 2018), Department of Mechanical Engineering, University of Western Macedonia

Associate Research Scientist (2009- 2016), Environmental Research Laboratory Institute of Nuclear Technology & Radiation Protection; NCRC “Demokritos”

Research Engineer (2009), School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA, USA

Postdoctoral Scholar (2005-2009), School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA

Adjunct Lecturer (2003-2005), Department of Environment, University of the Aegean, Greece

Research Scientist (2002 -2005), Department of Environment, University of the Aegean, Greece

Tutor (1992 -2003), Private High School, Greece

Military Officer (1990 – 1992), Greek Army

HONORS, AWARDS AND RECOGNITIONS

2022 - Organizing committee member of the 13th Panhellenic Chemical Engineering Scientific Conference

2021 - Guest Editor – Atmosphere (MDPI), Special Issue: "Meteorological and Air Quality Modelling"

2009 - Outstanding Research Faculty/ Post-doc Award, School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, GA, USA

2006 - UCAR/NCAR Early Career Scientists Assembly (ECSA) Junior Faculty Forum on Future Scientific Directions (JFF)

Editorial board

Journal of Energy and Environmental Research and Technology, Verizona publisher

Reviewer

Journal of Geophysical Research (JGR – Atmospheres)

Environmental Health Perspectives (EHP)

Atmospheric Chemistry and Physics (ACP)

Environmental Science and Technology (ES&T)

Journal of Environmental Management (JEMA)

Atmospheric Pollution Research

Regional Environmental Change

Atmospheric Environment

Environment International

Environmental Research

National Science Foundation (NSF)

German Aerospace Center (DLR)

Membership in Professional and Honor Societies

European Geophysical Union (EGU)

Hellenic Association for Aerosol Research (HAAR)

Invited Seminars

Department of Biology and Physics, Kennesaw State University, Atlanta, GA, February 2006

Citations

- IPCC, 2013: Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change. The following publications have been included:

i) Weaver C.P. et al., Bulletin of the American Meteorological Society, 2009, 12, 1843-1863

- ii) Tagaris E., et al. *Geophysical Research Letters*, 2008, 35, L08811
- iii) Liao K-J et al. *Environmental Science & Technology*, 2007, 41, 8355-8361
- iv) Tagaris E., et al. *Journal of Geophysical Research – Atmosphere*, 2007, 112, D14312
- American Association for Aerosol Research (AAAR): newsletter “Particulars, Spring 2010”. The publication “Potential impact of climate change on air pollution – related human health effects” (Tagaris et al., 2009) is presented as: *The Human Health Impact of Air Pollution in Warmer Climate* (<http://archive.constantcontact.com/fs004/1102402695628/archive/1103441643522.html#LETTER.BLOCK11>)
- U.S. EPA; newsletter “science in ACTION, building a scientific foundation for sound environmental decisions” March, 2010. The publication “Potential impact of climate change on air pollution – related human health effects” (Tagaris et al., 2009) is presented as: *Climate Change Impacts on Air Pollution & Health* (www.atmos.uiuc.edu/documents/QP2010_Issue3.pdf)
- American Enterprise Institute for Public Policy Research, August 15, 2007. The publication “Impacts of Global Climate Change and Emissions on Regional Ozone and Fine Particulate Matter Concentrations over the United States” (Tagaris et al., 2007) is presented as: *Future Air Pollution Levels and Climate Change: A Step toward Realism* (<http://www.aei.org/article/26629>)

TEACHING EXPERIENCE

Associate Professor

2019 – today

Air pollution, Solid Waste Management, Hazardous Waste Management, Physics II, Department of Chemical Engineering, University of Western Macedonia.

2020 – today

“Management of Environmental and Energy Systems” in the Master’s degree program “Advanced Engineering of Energy Systems”, Dept. of Mechanical Engineering, University of Western Macedonia.

2018 – 2019

Aquatic Chemistry, Air pollution, Solid Waste Management, Physics II, Department of Environmental Engineering, University of Western Macedonia.

2018 – 2020

"Pollution Control technologies in Energy Production" in the Master's degree program "Energy Resources Technologies and Management", Dept. of Mechanical Engineering, University of Western Macedonia.

Supervision of PhD, MSc and undergraduate Thesis:**Supervision of Postdoctoral Scholar:**

Dr. K. Ntasiou "Creation of a Geographical Information System (GIS) for the assessment of environmental changes in the post-lignite era in Western Macedonia" In progress – Started: 2/2021

Supervision of PhD Thesis:

A. Tranoulidis: "Creation of Transition model in post-lignite era" In progress – Started: 3/2019

N. Traka: "Modeling the impact of anthropogenic emissions on air quality over the Mediterranean region" In progress – Started: 2/2021

Supervision of MSc Thesis:

Completed: 2

Supervision of Undergraduate Thesis:

Completed: 7

Adjunct Lecturer**2017-2018**

While at the University of Western Macedonia (Greece), Department of Environmental Engineering I was the instructor of record for the following courses:

Aquatic Chemistry

Air pollution

Solid Waste Management

2016-2017

While at the University of Western Macedonia (Greece), Department of Environmental Engineering I was the instructor of record for the following courses:

Aquatic Chemistry

2003-2005

While at the University of the Aegean (Greece) I was the instructor of record for the following courses:

Undergraduate level*Department of Environment***2004-2005**

1. Physics
2. Environmental Physics
3. Aquatic Chemistry
4. Solid and Hazardous Waste Management

2003-2004

1. Environmental Physics
2. Aquatic Chemistry

Graduate level*Environmental and Ecological Mechanics,**Department of Environment***2004-2005**

1. Solid Waste Management

*Dept. of Pre-school Education and Educational.**Design, Dept. of Environ. Education***2004-2005**

1. Solid Waste Management

I was the acting major advisor and a committee member for *10 bachelor theses*, and served as a committee member in additional 16 bachelor theses. Moreover, I served as a committee member in *5 MS theses* in the program of *Environmental and Ecological Mechanics* and 2 in the program of *Environmental Policy and Management*

Tutor**1992–2003**

Director of private institution for the preparation of high school students for the higher education national entry examinations. Instructor of Physics and Chemistry.

RESEARCH EXPERIENCE**1. Main researcher:**

- | | |
|--------------------|---|
| 2016- 2018 | LIFE CLIMATREE-A novel approach for accounting & monitoring carbon sequestration of tree crops and their potential as carbon sink areas, European Commission |
| 2014 - 2016 | <i>LIFE CONOPS-Development & demonstration of management plans against -the climate change enhanced- invasive mosquitoes in S. Europe,</i> European Commission |
| 2012 – 2014 | <i>Assessing climate change and air quality impacts in Greece, focusing on their social and economic impacts at local level,</i> National Strategic Reference framework |

- 2009 – 2011** *PERL-Enhancing the Research Potential of NCSR “Demokritos” Environmental Research Laboratory in the European, National and Regional Research Areas*, European Commission
- 2008** *Particulate and Gas Sampling of Prescribed Fires*, Environmental Protection Division, Georgia Department of Natural Resource
- 2006 – 2007** *Health Effects and Associated Population Trends and Outcomes Impacted by Climate Change in Tennessee*, National Commission on Energy Policy
- 2005 – 2007** *Sensitivity and Uncertainty Assessment of Global Climate Change Impacts on Ozone and Particulate Matter: Examination of Direct and Indirect, Emission – Induced Effects*, EPA 2002-STAR-N-1
- 2004 - 2005** *Assessing the impacts of biogas from landfill sites to climate change, air quality and renewable energy sources*, National Strategic Reference framework
- 2002 – 2004** *BOND: Biogenic aerosols and air quality in the Mediterranean Area*, European Commission, EVK2-CT- 200100107
- 2002 – 2004** *AEOLOS: Assessment of Impact of SF6 & PFCs Reservoir Tracers on Global Warming*, European Commission, ENK6- CT-2001-00501

2. Not the main researcher

- 2020-2023** Development of New Innovative Low Carbon Energy Technologies to Enhance Excellence in the Region of Western Macedonia- MIS 5047197
Responsible for Work Package 10: "Air quality in Western Macedonia: the impact of climate change and the transition to the post-lignite era"
- 2005-2009** Participation in research projects at Georgia Institute of Technology related to: Air quality modeling, Air quality measurements, Model development
Emission inventories, Source apportionment, Secondary Organic Aerosols (SOA)

ADMINISTRATIVE EXPERIENCE

1/9/2021 – today, Head of the Department of Chemical Engineering, University of Western Macedonia.

20/5/2020 – today, Head of the Committee on Animal Welfare and Environmental Sustainability, University of Western Macedonia.

2019 – today, Internship Coordinator, Department of Chemical Engineering, University of Western Macedonia.

2018 - 2019, Internship Coordinator, Department of Environmental Engineering, University of Western Macedonia.

2018 – σήμερα, Member of the Research Committee, University of Western Macedonia.

2018 – 2021, Member of the Student Dining Services Committee in Kozani, University of Western Macedonia.

2018 – 31/8/2019 Vice Head, Department of Environmental Engineering, University of Western Macedonia.

PUBLICATIONS

Referred Journal Publications

1. Stergiou, I., **E. Tagaris**, R.-E.P Sotiropoulou, WRF Physics Ensemble Performance Evaluation over Continental and Coastal Regions in Germany. *Atmosphere*, 2023, 14(1):17. <https://doi.org/10.3390/atmos1401001>
2. Stergiou I., **E. Tagaris**, R.-E.P. Sotiropoulou, Temperature and Precipitation Bias Patterns in a Dynamical Downscaling Procedure over Europe during the Period 1951–2010. *Atmosphere*, 2022, 13(8):1338, <https://doi.org/10.3390/atmos13081338>
3. Tranoulidis A, R.-E.P. Sotiropoulou, K. Bithas, **E. Tagaris**, Decarbonization and Transition to the Post-Lignite Era: Analysis for a Sustainable Transition in the Region of Western Macedonia. *Sustainability*, 2022 14(16):10173, <https://doi.org/10.3390/su141610173>
4. Stergiou I, **E. Tagaris**, and R.E.P. Sotiropoulou, Investigating the WRF Temperature and Precipitation Performance Sensitivity to Spatial Resolution over Central Europe, *Atmosphere*, 2021, 12, 278, doi: 10.1007/s11356-017-9046-x
5. **Tagaris, E.**, I. Stergiou and R.E.P. Sotiropoulou (2017), Impact of shipping emissions on ozone levels over Europe: assessing the relative importance of the Standard Nomenclature for Air Pollution (SNAP) categories. *Environ. Sci. Pollut. Res.*, 24: 14903. doi:10.1007/s11356-017-9046-x

6. **Tagaris E.**, R.E.P. Sotiropoulou, N. Gounaris, S. Andronopoulos and D. Vlachogiannis, Effect of the Standard Nomenclature for Air Pollution (SNAP) Categories on Air Quality over Europe, *Atmosphere* 2015, 6, 1119-1128, doi:10.3390/atmos6081119 (Invited paper for the special issue “Indoor and Outdoor Air Quality”)
7. **Tagaris E.**, R.E.P. Sotiropoulou, N. Gounaris, S. Andronopoulos and D. Vlachogiannis, Impact of biogenic emissions on ozone and fine particles over Europe: Comparing effects of temperature increase and a potential anthropogenic NO_x emissions abatement strategy, *Atmospheric Environment*, 2014, 98, 214-223
8. Balachandran S., J.E. Pachon, S. Lee, M. Oakes, N. Rastogi, W. Shi, **E. Tagaris**, B. Yan, A. Davis, X. Zhang, R.J. Weber, J.A. Mulholland, M. Bergin, M. Zheng and A.G. Russell, Particulate and Gas Sampling of Prescribed Fires in South Georgia, USA, *Atmospheric Environment*, 2013, 81, 125-135
9. **Tagaris E.**, R.E.P. Sotiropoulou, N. Gounaris, S. Andronopoulos and D. Vlachogiannis, Air quality over Europe: modelling gaseous and particulate pollutants *Atmospheric Chemistry and Physics*, 2013, 13, 9661-2013
10. Liao K.J., P. Amar, **E. Tagaris** and A.G. Russell, Development of Risk-based Air Quality Management Strategies under Impacts of Climate Change, *Journal of Air & Waste Management Association*, 2012, 62, 557–565
11. **Tagaris E.**, K-J. Liao, A. J. DeLucia, L. Deck, P. Amar and A. G. Russell, Sensitivity of Air Pollution-Induced Premature Mortality to Precursor Emissions Under the Influence of Climate Change, *International Journal of Environmental Research and Public Health*, 2010, 7, 2222-2237, doi: 10.3390/ijerph7052222
12. Liao K.J., **E. Tagaris**, A.G. Russell, P. Amar, S. He, K. Manomaiphiboon and J.H. Woo, Cost Analysis of impacts of Climate Change on Regional air Quality, *Journal of Air & Waste Management Association*, 2010, 60, 195 - 203
13. Weaver C.P., X.-Z. Liang, J. Zhu, P.J. Adams, P. Amar, J. Avise M. Caughey, J. Chen, R.C. Cohen, E. Cooter, J.P. Dawson, R. Gilliam, A. Gilliland, A.H. Goldstein, A. Grambsch, A. Guenther, R.A. Harley, S. He, B. Hemming, C. Hogrefe, H.-C. Huang, S. Hunt, D. Jacob, P. Kinney, K. Kunkel, J.-F. Lamarque, B. Lamb, N. Larkin, L.R. Leung, K.-J. Liao, J. Lin, B.H. Lynn, K. Manomaiphiboon, C. Mass, D. McKenzie, L. Mickley, S. O’Neil, C. Nolte, S.N. Pandis, P.N. Racherla, C. Rosenzweig, A.G. Russell, E. Salathe, A.L. Steiner, **E. Tagaris**, Z. Tao, C. Wiedinmyer, A. Williams, D. Winner, J.-H. Woo, S. Wu and D.J. Wuebbles, A Preliminary Synthesis of Modeled

- Climate Change Impacts on U.S. Regional Ozone Concentrations, *Bulletin of the American Meteorological Society*, 2009, 12, 1843-1863
14. **Tagaris E.**, K-J. Liao, A. J. DeLucia, L. Deck, P. Amar and A. G. Russell, Potential impact of climate change on air pollution – related human health effects, *Environmental Science & Technology*, 2009, 43, 4979-4988
 15. Liao K-J., **E. Tagaris**, K. Manomaiphiboon, C. Wang, J-H. Woo, S. He, P. Amar, and A. G. Russell, Quantification of the impact of climate uncertainty on regional air quality, *Atmospheric Chemistry and Physics*, 2009, 9, 865-878
 16. Woo, J.H., S. He, **E. Tagaris**, , K.J. Liao, K. Manomaiphiboon, P. Amar and A.G. Russell, Development of North American Emission Inventories for Air Quality Modeling under Climate Change, *Journal of Air & Waste Management Association*, 2008, 58, pp 1483-1494
 17. **Tagaris E.**, K-J. Liao, K. Manomaiphiboon, J-H. Woo, S. He, P. Amar and A. G. Russell, The Role of Climate and Emission Changes in Future Air Quality over Northern Mexico and Southern Canada, *Atmospheric Chemistry and Physics*, 2008, 8, 3973-3983
 18. Liao K-J., **E. Tagaris**, S. L. Napoleok, K. Manomaiphiboon, J-H. Woo, S. He, P. Amar, and A. G. Russell, Current and Future Correlated Responses of Ozone and PM_{2.5} to Emissions Controls, *Environmental Science & Technology*, 2008, 42, 4670-4675
 19. **Tagaris E.**, K-J. Liao, K. Manomaiphiboon, J-H. Woo, S. He, P. Amar and A. G. Russell, Impacts of Future Climate Change and Emissions Reductions on Nitrogen and Sulfur Deposition over the United States, *Geophysical Research Letters*, 2008, 35, L08811, doi:10.1029/2008GL033477
 20. Liao K-J., **E. Tagaris**, K. Manomaiphiboon, S. L. Napoleok, J-H. Woo, S. He, P. Amar and A. G. Russell, Sensitivity of Ozone and Fine Particulate Matter Formation to Emissions under the Impact of Potential Future Climate Change, *Environmental Science & Technology*, 2007, 41, 8355-8361
 21. **Tagaris E.**, K. Manomaiphiboon, K-J. Liao, L-Y. Leung, J-H. Woo, S. He, P. Amar and A. G. Russell, Impacts of Global Climate Change and Emissions on Regional Ozone and Fine Particulate Matter Concentrations over the United States, *Journal of Geophysical Research – Atmosphere*, 2007, D14312, doi:10.1029/2006JD008262.
 22. Sotiropoulou R.E.P., **E. Tagaris**, C. Pilinis, T. Anttila and M. Kulmala, Modeling new particle formation during air pollution episodes: impacts on aerosol and cloud condensation nuclei, *Aerosol Science & Technology*, 2006, 40, 557-572
 23. Vlachogiannis D., A. Sfetsos, A. Stubos, R. E. P. Sotiropoulou, **E. Tagaris**, C. Pilinis, W. Zhong, J. D. Haigh, D. O. Eriksen, S. Hartvig, C. Chatzichristos, J. Muller and R. Kleven, Assessment of the Impact of SF₆ and PFCs Reservoir Tracers on Global

- Warming, the AEOLUS study, *Environmental Science*, 2005, 2, pp 263 – 272, doi: 10.1080/15693430500396170
24. Sotiropoulou R.E.P., **E. Tagaris**, C. Pilinis, S. Andronopoulos, A. Sfetsos and J.G. Bartzis, The BOND project: Biogenic aerosols and air quality in Athens and Marseille Greater Areas, *Journal of Geophysical Research – Atmosphere*, 2004, 109, D05205, doi:10.1029/2003JD003955
 25. Sotiropoulou R.E.P., **E. Tagaris** and C. Pilinis, An estimation of the spatial distribution of agricultural ammonia emissions in the Greater Athens Area, *The Science of the Total Environment*, 2004, 318, pp 159-169
 26. **Tagaris E.**, Sotiropoulou, C. Pilinis and C.P. Halvadakis, A Methodology to Estimate Odors around Landfill Sites: The Use of Methane as an “Odor Index” and Its Utility in Landfill Siting, *Journal of Air and Waste Management Association*, 2003, 53 (5), pp 629-634
 27. **Tagaris E.**, R.E.P. Sotiropoulou, C. Pilinis and C.P. Halvadakis, Atmospheric Methane Transport near landfill Sites, *Waste Management & Research*, 2003, 21 (1), pp 62-73

BOOK CHAPTERS

1. Sotiropoulou R.E.P., **E. Tagaris**, Impact of shipping emissions on European air quality, Perspectives on Atmospheric Sciences, ISBN 978-3-319-35094-3, Eds. T. Karacostas, A. Bais, P. T. Nastos, edited by Springer Editions, 2017
2. **Tagaris E.**, R.E.P. Sotiropoulou, A. Sotiropoulos, I. Spanos, P. Milonas, A. Michaelakis, Climate change impact on the establishment of the Invasive Mosquito Species (IMS), Perspectives on Atmospheric Sciences, ISBN 978-3-319-35094-3, Eds. T. Karacostas, A. Bais, P. T. Nastos, edited by Springer Editions, 2017
3. Sotiropoulou, R.E.P., **E. Tagaris**, A. Sotiropoulos, I. Spanos, P. Milonas, A. Michaelakis, Regional estimates of global climate change: a dynamical downscaling approach to Southeast Europe, In: Energy, Transportation and Global Warming, ISBN 978-3-319-30127-3, edited by Springer Editions, 2016. (see more details in <http://www.springer.com/gp/book/9783319301266>).
4. Sotiropoulou, R.E.P., **E. Tagaris**, C. Pilinis, T. Anttila, and M. Kulmala, Modeling new particle formation in the Greater Athens Area, Report Series in Aerosol Science, Eds. M. Kulmala and T.M. Ruuskanen, 73, pp. 288-292, 2004

Conference Proceedings

1. Sotiropoulou, R.E.P., I. Stergiou., **E. Tagaris**, Evaluation of WRF physics ensemble performance in forecasting extreme precipitation events over German, European Geosciences Union (EGU), General Assembly 2023, Vienna, Austria, April 2023 (accepted)
2. **Tagaris, E.**, A. Tranoulidis, R.E.P. Sotiropoulou, K. Bithas, Decarbonization and sustainable energy transition to the post-lignite era in Greece, European Geosciences Union (EGU), General Assembly 2023, Vienna, Austria, April 2023 (accepted)
3. Stergiou, I., **E. Tagaris**, R.E.P. Sotiropoulou, *Analysis of the grid-size resolution effect on temperature and precipitation simulation ability over Europe using the WRF model*, 13th Panhellenic Scientific Conference of Chemical Engineering, Patras, June 2022 (oral presentation, **extended abstract**)
4. Tranoulidis, A., R.E.P. Sotiropoulou, K. Bithas, **E. Tagaris**, *Lignite phase-out and transition to the post-lignite era: An analysis for a sustainable energy system in the Region of Western Macedonia*, 13th Panhellenic Scientific Conference of Chemical Engineering, Patras, June 2022 (oral presentation, **extended abstract**)
5. Farmaki P., A. Tranoulidis, R.E.P. Sotiropoulou, **E. Tagaris**, *Towards a sustainable water resources management in post-lignite era: the case of Western Macedonia, Greece*, 16th International Conference on Environmental Science and Technology, Athens, Greece, September 2021 (oral presentation, **extended abstract**)
6. Sotiropoulou R.E.P., I. Stergiou and **E. Tagaris**, *A Methodology for Optimizing Numerical Weather Prediction Models*, European Geosciences Union (EGU), General Assembly 2020, poster presentation, Vienna, Austria, April 2020
7. **Tagaris E.**, I. Stergiou, R.E.P Sotiropoulou, *WRF forecast sensitivity to spatial resolution*, European Geosciences Union (EGU), General Assembly 2020, poster presentation, Vienna, Austria, April 2020
8. Sotiropoulou R.E.P., I. Stergiou and **E. Tagaris**, *Comparison of precipitation change projections between two RCPs over Southern Europe*, European Geosciences Union (EGU), General Assembly 2019, poster presentation, Vienna, Austria, April 2019
9. **Tagaris E.**, I. Stergiou, R.E.P Sotiropoulou, *Projected Changes in Temperature and Precipitation for the southeast European region*, European Geosciences Union (EGU), General Assembly 2019, poster presentation, Vienna, Austria, April 2019
10. Stergiou J, **E. Tagaris** and R.E.P. Sotiropoulou, *Optimizing WRF model for surface temperature assessments over Europe*, 14th International Conference on Meteorology,

- Climatology and Atmospheric Physics, COMECAP, poster presentation, Alexandroupolis, Greece, October 2018 (**extended abstract**)
11. Sotiropoulou R.E.P., J. Stergiou and **E. Tagaris**, *High-resolution downscaling of climate projections for temperature and precipitation over the Mediterranean*, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP, poster presentation, Alexandroupolis, Greece, October 2018 (**extended abstract**)
 12. **Tagaris E.**, A. Sotiropoulos, I. Spanos, P. Milonas, and A. Michaelakis, Projected Changes in Temperature and Precipitation for the southeast European region, European Geosciences Union (EGU), General Assembly 2018, poster presentation, Vienna, Austria, April 2018
 13. Stergiou I., **E. Tagaris**, and R.E.P. Sotiropoulou, A comprehensive sensitivity analysis of the WRF model parameterizations over Europe, European Geosciences Union (EGU), General Assembly 2018, poster presentation, Vienna, Austria, April 2018
 14. Sotiropoulou R.E.P., I. Stergiou, and **E. Tagaris**, Climate change projection over Mediterranean under RCP4.5 and RCP8.5, European Geosciences Union (EGU), General Assembly 2018, poster presentation, Vienna, Austria, April 2018
 15. Stergiou, J., **E. Tagaris**, R.E.P. Sotiropoulou. Sensitivity assessment of WRF parameterizations over Europe. In Proceedings of the 2nd Int. Electron. Conf. Atmos. Sci., 16–31 July 2017; Sciforum Electronic Conference Series, Vol. 2, 2017; doi:10.3390/ecas2017-04138
 16. R.E.P. Sotiropoulou, J. Stergiou, **E. Tagaris**, Assessment of future changes in climate in the Mediterranean region, 11th Panhellenic Chemical Engineering Scientific Conference. Thessaloniki, Greece, July 2017
 17. Stergiou, J., R.E.P. Sotiropoulou, **E. Tagaris**, Impact of shipping emissions on ozone concentrations over Europe, 11th Panhellenic Chemical Engineering Scientific Conference. Thessaloniki, Greece, July 2017
 18. **Tagaris E.**, R.E.P. Sotiropoulou, A. Sotiropoulos, I. Spanos, P. Milonas, and A. Michaelakis, The impact of climate change on the establishment and seasonal abundance of the invasive mosquito species: Current state and future fit for southeastern Europe, 11th Panhellenic Chemical Engineering Scientific Conference. Thessaloniki, Greece, July 2017
 19. Sotiropoulou R.E.P., I. Stergiou, and **E. Tagaris**, Projection of future changes in climate in the Mediterranean Region, European Geosciences Union (EGU), General Assembly 2017, Vienna, Austria, April 2017

20. **Tagaris E.**, R.E.P. Sotiropoulou, A. Sotiropoulos, I. Spanos, P. Milonas, and A. Michaelakis, Climate change impact on the establishment and seasonal abundance of Invasive Mosquito Species: current state and future risk maps over southeast Europe, European Geosciences Union (EGU), General Assembly 2017, Vienna, Austria, April 2017
21. Stergiou I., R.E.P. Sotiropoulou and **E. Tagaris**, Effect of shipping emissions on European ground-level ozone, European Geosciences Union (EGU), General Assembly 2017, Vienna, Austria, April 2017
22. Sotiropoulou R.E.P., **E. Tagaris**, Impact of shipping emissions on European air quality, 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP, Thessaloniki, September 2016
23. **Tagaris E.**, R.E.P. Sotiropoulou, A. Sotiropoulos, I. Spanos, P. Milonas, A. Michaelakis, Climate change impact on the establishment of the Invasive Mosquito Species (IMS), 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP, Thessaloniki, September 2016
24. Stergiou J., **E. Tagaris**, R.E.P. Sotiropoulou, Life ClimaTree project: Accounting the tree crops carbon sequestration in S. Europe for current and future climatic conditions, 13th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP, Thessaloniki, September 2016
25. Michaelakis, A., R.E.P. Sotiropoulou, **E. Tagaris**, A. Sotiropoulos, I. Spanos, D. Papachristos, R. Bellini, P. Milonas, The risk of new Invasive Mosquito Species in southeast Europe: current state and future risk maps, International Congress of Entomology, Orlando, MI, USA, September 2016
26. Stergiou, J.; **E. Tagaris**, R.E.P. Sotiropoulou, Sensitivity Analysis of Climate Change Projection to the Grid Size Resolution over Mediterranean. In Proceedings of the 1st Int. Electron. Conf. Atmos. Sci., 16–31 July 2016; Sciforum Electronic Conference Series, Vol. 1, 2016 , D002; doi:10.3390/ecas2016-D002
27. **Tagaris E.**, R.E.P. Sotiropoulou, A. Sotiropoulos, I. Spanos, D. Papachristos, R. Bellini, P. Milonas, and A. Michaelakis *The distribution of aedes aldopicus in Greece: current state and future risk maps*, 3rd Conference on Neglected Vectors and Vector-Borne Diseases (EurNegVec): with MC and WG Meeting of the COST Action TD1303, oral presentation, Zaragoza, Spain, May 2016
28. Sotiropoulou R.E.P., **E. Tagaris**, Air pollution from ships over Europe, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2016

29. Tagaris E., R.E.P. Sotiropoulou, A. Sotiropoulos, I. Spanos, P. Milonas, A. Michaelakis, Development of a risk database for the establishment of invasive mosquito species under impacts of climate change, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2016
30. Stergiou J., E. Tagaris, R.E.P. Sotiropoulou, LIFE CLIMATREE project: A novel approach for accounting and monitoring carbon sequestration of tree crops and their potential as carbon sink areas, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2016
31. Michaelakis A., R.E.P., Sotiropoulou **E. Tagaris**, A. Sotiropoulos, J. Spanos and P. Milonas, *A risk database for the future establishment of Invasive Mosquito Species in Greece and Italy*, 16^o Panhellenic Entomological Congress, poster presentation, Heraklion, Greece, October 2015
32. **Tagaris E.**, R.E.P. Sotiropoulou, N. Gounaris, S. Andronopoulos and D. Vlachogiannis, *Anthropogenic emissions and air quality: Assessing the effect of the Standard Nomenclature for Air Pollution (SNAP) categories over Europe*, National Conference of Chemical Engineering, oral presentation, Patra, Greece, June 2015 **(extended abstract)**
33. Sotiropoulou R.E.P., **E. Tagaris**, A. Sotiropoulos, J. Spanos, P. Milonas and A. Michaelakis, *Downscaling of global climate change estimates to regional scales: the case of Greece*, National Conference of Chemical Engineering, oral presentation, Patra, Greece, June 2015 **(extended abstract)**
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38. Sotiropoulou R.E.P., **E. Tagaris**, A. Sotiropoulos, J. Spanos, P. Milonas and A. Michaelakis, *Impact of climate change on invasive mosquito species in S.E. Europe*, European Geosciences Union (EGU), General Assembly 2014, poster presentation, Vienna, Austria, April 2014
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40. Sotiropoulou, R.E.P., **E. Tagaris**, A. Sotiropoulos, I. Spanos, P. Milonas, A. Michaelakis, Assessing impacts of meteorology and climate on invasive mosquitoes in S.E. Europe during LIFE CONOPS Project: Preliminary results, 12th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP, oral presentation, Heraklion, May 2014 (**extended abstract**)
41. Megaritis A.G., C. Fountoukis, **E. Tagaris**, R.E.P. Sotiropoulou, A. Sfetsos, D. Vlachogiannis, and S.N. Pandis, Effects of climate change on summertime air quality in Greece, 12th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP, oral presentation, Heraklion, May 2014 (**extended abstract**)
42. Sotiropoulou R.E.P., **E. Tagaris**, A. Sotiropoulos, J. Spanos, P. Milonas and A. Michaelakis, *Climate change impact on invasive mosquito species in S.E. Europe*, PRE12 International Conference “Protection & Restoration of the Environment”, oral presentation, Skiathos Island, June 2014
43. **Tagaris E.**, R.E.P. Sotiropoulou, N. Gounaris, S. Andronopoulos and D. Vlachogiannis, *Assessment of ambient air quality in European countries using CMAQ*, PRE12 International Conference “Protection & Restoration of the Environment”, oral presentation, Skiathos Island, June 2014 (**extended abstract**)
44. Michaelakis A., A. Sotiropoulos, J. Spanos, P. Milonas, R.E.P. Sotiropoulou and **E. Tagaris** *LIFE CONOPS: Development & demonstration of management plans against the climate change enhanced invasive mosquitoes in S. Europe*, International Conference Adapt to Climate, oral presentation, Nicosia, Cyprus, March 2014

45. **Tagaris E.**, R.E.P. Sotiropoulou, N. Gounaris, S. Andronopoulos and D. Vlachogiannis *Impact of biogenic emissions on PM_{2.5} concentration over Europe*, European Aerosol Conference (EAC2013), oral & poster presentation, Prague, Czech Republic, September 2013
46. Sotiropoulou, R.E.P. and **E. Tagaris**, *The importance of organic compounds for the first aerosol indirect effect: sensitivity to cloud formation parameterizations and meteorological fields*, European Aerosol Conference (EAC2013), oral presentation, Prague, Czech Republic, September 2013
47. **Tagaris E.**, R.E.P. Sotiropoulou, N. Gounaris and S. Andronopoulos, *Impact of biogenic emissions on air quality over Europe*, European Geosciences Union (EGU), General Assembly 2013, oral presentation, Vienna, Austria, April 2013
48. **Tagaris E.**, REP Sotiropoulou, N. Gounaris and S. Andronopoulos, *Effect of precursor emissions on PM_{2.5} concentrations over Europe*, European Aerosol Conference (EAC2012), oral presentation, Granada, Spain, September 2012
49. Sotiropoulou R.E.P., **E. Tagaris**, N. Meskhidze, J. Kouatchou, L. Oreopoulos, J. M. Rodriguez, and A. Nenes, *Are indirect forcing estimates sensitive to cloud formation parameterizations, emission scenarios and meteorological fields?*, European Aerosol Conference (EAC2012), oral presentation, Granada, Spain, September 2012
50. **Tagaris E.**, REP Sotiropoulou, N. Gounaris and S. Andronopoulos, *Atmospheric pollution in Europe: modeling setup an evaluation*, 8th International Conference on Air quality – Science and Application (Air Quality 2012), poster presentation, Athens, Greece, March 2012
51. Sotiropoulou R.E.P., **E. Tagaris**, N. Meskhidze, J. Kouatchou, L. Oreopoulos, J. M. Rodriguez, and A. Nenes, *Sensitivity of cloud radiative forcing to emission inventory and cloud formation parameterization*, 8th International Conference on Air quality – Science and Application (Air Quality 2012), oral presentation, Athens, Greece, March 2012
52. **Tagaris E.**, REP Sotiropoulou, N. Gounaris and S. Andronopoulos, *Air quality over Europe: application of CMAQ modeling system*, 14th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes (HARMO14), oral presentation, Kos, Greece, October 2011 (**extended abstract**)
53. **Tagaris E.**, REP Sotiropoulou, N. Gounaris and S. Andronopoulos, *Modelling PM_{2.5} concentrations over Europe*, European Aerosol Conference (EAC2011), poster presentation, Manchester, UK, September 2011
54. **Tagaris E.**, K-J. Liao A.J. Delucia, L. Deck, P. Amar and A.G. Russell, *Responses of PM_{2.5} and ozone-induced premature mortality to precursor emissions under the impact*

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55. **Tagaris E.**, K-J. Liao A.J. Delucia, L. Deck, P. Amar and A.G. Russell, *Climate-induced changes on PM_{2.5} related premature mortality in 2050 over the US*, International Aerosol Conference (IAC2010), oral presentation, Helsinki, Finland, August 2010
 56. **Tagaris E.**, A. Sfetsos, D. Vlachogiannis, S. Andronopoulos, REP Sotiropoulou and N. Gounaris, *Sensitivity of Ozone and Particulate Matter Concentrations in Greater Athens Area, Greece*, 13th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes (HARMO13), poster presentation, Paris, France June 2010
 57. Russell A. G., **E. Tagaris**, K-J Liao and P. Amar, *Climate Impacts on Air Pollution and the Related Health Impacts and Increased Control Costs*, 90th American Meteorology Society (AMS) Annual Meeting, Invited Speaker, Atlanta, GA, January 2010
 58. **Tagaris E.**, K-J. Liao, A. J. DeLucia, L. Deck, P. Amar and A. G. Russell, *Climate change impact on air pollution – related human health effects over the US*, American Association for Aerosol Research (AAAR 2009) Annual Conference, oral presentation, Minneapolis, Minnesota, October 2009
 59. **Tagaris E.**, S. Lee, S. Balachandran, M. Oakes, N. Rastogi, W. Shi, D. Tian, R. Weber, M. Zheng and A. G. Russell, *Particulate and Gas Sampling of Prescribed Fire*, American Association for Aerosol Research (AAAR 2009) Annual Conference, poster presentation, Minneapolis, Minnesota, October 2009
 60. Liao K-J, **E. Tagaris**, A. G. Russell, P. Amar, S. He, K. Manomaiphiboon and J-H. Woo, *Cost Analysis of Impacts of Climate Change on Regional Air Quality*, 8th Annual CMAS Conference, oral presentation, October 2009
 61. **Tagaris E.**, K-J. Liao, K. Manomaiphiboon, J-H. Woo, S. He, P. Amar and A. G. Russell, *Effect of climate and emission changes on particle number concentration over the US*, American Association for Aerosol Research (AAAR 2008) Annual Conference, poster presentation, Orlando, Florida, October 2008
 62. Liao K-J, **E. Tagaris**, K. Manomaiphiboon, J-H Woo, P. Amar, S. He and A. G. Russell, *Cost Analysis of Impacts of Climate Change on Regional Ozone and PM_{2.5}*, American Association for Aerosol Research (AAAR 2008) Annual Conference, poster presentation, Orlando, Florida, October 2008

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64. **Tagaris E.**, K-J. Liao, K. Manomaiphiboon, J-H. Woo, S. He, P. Amar and A. G. Russell, *Impacts of climate and emissions changes on nitrogen and sulfur deposition over US*, 101th Annual Conference & Exhibition (ACE) Air & Waste Management Association's, Portland, Oregon, oral presentation, June 2008
65. Liao K-J., **E. Tagaris**, S. L. Napoleok, K. Manomaiphiboon, J-H. Woo, S. He, P. Amar, and A. G. Russell, *Linked Responses of Ozone and PM_{2.5} to Emissions Controls Currently and in the Future*, 101th Annual Conference & Exhibition (ACE) Air & Waste Management Association's, Portland, Oregon, oral presentation, June 2008
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69. **Tagaris E.**, K.J. Liao, K. Manomaiphiboon, A. G. Russell, J-H. Woo, S. He, P. Amar, L-Y. Leung, *The role of emission changes in future air quality over US*, 100th Annual Conference & Exhibition (ACE) Air & Waste Management Association's, oral presentation, Pittsburgh, Pennsylvania, June 2007
70. **Tagaris E.**, K.J. Liao, K. Manomaiphiboon, J-H. Woo, S. He, P. Amar, L-Y. Leung, C. Wang, A. G. Russell, *Sensitivity and uncertainty assessment of global climate change impacts on regional air quality over US*, European Geosciences Union (EGU), General Assembly 2007, oral presentation, Vienna, Austria, April 2007
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73. Woo, J.H., S. He, P. Amar, **E. Tagaris**, K.J. Liao, K. Manomaiphiboon, and A.G. Russell, *Development of Year 2050 Anthropogenic Emissions Inventory in Support of Future Air Quality Modeling*, 5th Annual CMAS Conference, oral presentation, October 2006
74. **Tagaris E.**, K.J. Liao, K. Manomaiphiboon, A. G. Russell, J-H. Woo, S. He, P. Amar, L-Y. Leung, *Climate Change Impacts on US Air Quality: Examination of Ozone and Fine Particulate Matter Concentrations and their Sensitivity to Emission Changes*, 5th Annual CMAS Conference, oral presentation, October 16-18, 2006
75. Woo, J.H., S. He, P. Amar, **E. Tagaris**, K. Manomaiphiboon, K.J. Liao, and A.G. Russell, *Development of Mid-Century Anthropogenic Emissions Inventory in Support of Regional Air Quality Modeling under Influence of Climate Change*, 15th Annual Emission Inventory Conference Reinventing Inventories New Ideas in New Orleans, oral presentation, New Orleans, LA, 2006
76. **Tagaris E.**, K. J. Liao, K. Manomaiphiboon, A. G. Russell, J.-H. Woo, S. He, P. Amar, and L-Y. Leung, *Climate change impacts on fine particulate matter concentrations in US*, International Aerosol Conference, oral presentation, St Paul, Minnesota, 10 - 15 September 2006
77. Liao, K.-J., A. G. Russell, K. Manomaiphiboon, **E. Tagaris**, L.-Y. Leung, J.-H. Woo, P. Amar and S. He, *Implication of Climate Change on Deposition of Sulfur and Nitrogen Compounds in U.S*, 14th Joint Conference on the Applications of Air Pollution Meteorology with A&WMA, oral presentation, Atlanta, Georgia, 29 January–2 February 2006
78. Sotiropoulou R.E.P., **E. Tagaris**, C. Pilinis, T. Anttila and M. Kulmala, *Modeling new particle formation in the Mediterranean area*, American Association for Aerosol Research (AAAR 2005) Annual Conference, oral presentation, Austin, Texas, October 2005
79. Sotiropoulou R.E.P., **E. Tagaris**, C. Pilinis, *How biogenic emissions affect aerosol concentrations and radiative forcing in the Mediterranean area*, American Association for Aerosol Research (AAAR 2005) Annual Conference, oral presentation, Austin, Texas, October 2005
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81. Vlachogiannis D., R. E. P. Sotiropoulou, A. Sfetsos, W. Zhong, J. D. Heigh, D. Eriskin, S. Hartving, C. Chatzichistos, **E. Tagaris**, C. Pilinis, R. Kleven, A. Stubos, and J. Muller, *Assesment of the Impact of SF6 and PFCs Reservoir Tracers on Global Warming, the AEOLOS study*, 4th International Symposium on Non-CO₂ Greenhouse

- Gases (NCGG-4) Science, Control, Policy and Implementation, oral presentation, Utrecht, The Netherlands, July 2005
82. Sfetsos, A., D. Vlachogiannis, N. Gounaris, A. Stubos, R. E. P. Sotiropoulou, **E. Tagaris**, C. Pilinis, C. Chatzichistos and R. Kleven, *A methodology for the identification and prediction of weather types using data mining methodologies*, 18th International Conference Informatics for the Environmental Protection, oral presentation, Geneva, Switzerland, October 2004
83. **Tagaris E.**, R.E.P. Sotiropoulou, and C.P. Halvadakis, *Methodology for estimating types and quantity of landfilled solid waste: the case of Mytilene Municipality (Greece)*, ISWA World Environment Congress and Exhibition, oral presentation, Rome, Italy, October 2004
84. Sotiropoulou R.E.P., **E. Tagaris**, C. Pilinis, S. Andronopoulos, A. Sfetsos and J.G. Bartzis, *The BOND project: Contribution of biogenic emission to the aerosol budget in the Mediterranean area*, European Aerosol Conference (EAC'2004), oral presentation, Budapest, Hungary, September 2004
85. Sotiropoulou R.E.P., **E. Tagaris**, C. Pilinis, D. Vlachogiannis, A. Sfetsos, N. Gounaris, A. Stubos, C. Chatzichristos and R. Kleven. *Estimation of the effects of SF6 and PFCS reservoir tracers on atmospheric quality in the North Sea using data from the AEOLOS study*, 13th World Clean Air Congress, oral presentation, London, August 2004
86. Sotiropoulou R.E.P., **E. Tagaris** and C. Pilinis, *Evaluation of the UAM-AERO and CAMx air quality models using the BOND study, database*, Protection and Restoration of the Environment VII, oral presentation, Mykonos, Greece, June 2004
87. **Tagaris E.**, R.E.P. Sotiropoulou, C. Pilinis and C.P. Halvadakis, *Methane production and dispersion around landfill sites*, 8th International Conference on Environmental Science and Technology, oral presentation, Limnos Island, Greece, September 2003
88. Sotiropoulou R.E.P., **E. Tagaris**, C. Pilinis, S. Andronopoulos, N. Gounaris, A. Sfetsos, J.G. Bartzis, *Estimation of particulate matter concentrations in the Greater Athens Area by means of the UAM-AERO model*, 8th International Conference on Environmental Science and Technology, oral presentation, Limnos Island, Greece, September 2003
89. Sotiropoulou R.E.P., **E. Tagaris**, C. Pilinis, S. Andronopoulos, N. Gounaris, A. Sfetsos, J.G. Bartzis, *Application of the UAM-AERO model in the Greater Athens Area*, 4th International Conference on Urban air Quality – Measurements, Modelling and Management, oral presentation, Prague, March 2003
90. **Tagaris E.**, R.E.P. Sotiropoulou, C. Pilinis and C.P. Halvadakis *Methane as Odor Index in Landfill Sites*, 7th International Conference on Environmental Science and Technology, Poster Presentation, Ermoupolis, Syros Island, Greece, September 2001

91. **Tagaris E.** and C.P. Halvadakis, *Estimation of Biogas production in Landfill Sites*, 6th International Conference on Environmental Science and Technology, Pithagorio, oral presentation, Samos Island, Greece, September 1999

Participation in Workshops

1. **Tagaris E.**, K.J. Liao, K. Manomaiphiboon, A. G. Russell, J-H. Woo, S.He, P. Amar, L-Y. Leung, *Climate Change Impacts on Regional Air Quality in the US*, 4-th Annual UCAR/NCAR Early Career Scientists Assembly (ECSA) Junior Faculty Forum on Future Scientific Directions (JFF), poster presentation, Boulder, Colorado, August, 2006
2. Liao, K.J., **E. Tagaris**, K. Manomaiphiboon, A. Russell, J.H. Woo, S. He, P. Amar, C.E. Wang, and L.-Y.R. Leung, *Impact of Future Climate Change on Regional Air Quality in the U.S.*, in *Environmental Science & Health Symposium*, oral presentation, Atlanta, GA, 2006
3. Maselou D., **E. Tagaris**, A. Sotiropoulos and A. Michaelakis, *Spatial distribution of Aedes albopictus (Asian tiger mosquito) in Greece and Italy under impacts of climate change*, E-bulletins Hellenic Center for Disease Control & Prevention, May 2016
4. Stergiou, J., R.E.P. Sotiropoulou, **E. Tagaris**, *Impact of shipping emissions on ozone concentrations over Europe*. Technical Inspection, vol. 278, Sept. – Oct. 2017