

CONTACT INFORMATION

Rafaella P. Sotiropoulou
Tenure Track Assistant Professor
University of Western Macedonia
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PERSONAL INFORMATION

Date of Birth: November 12, 1976

Marital Status: Married with two children

Place of Birth: Mytilene, Lesvos, GR

EDUCATIONAL BACKGROUND

2005 – 2006 **Postdoctoral Fellow**, Georgia Institute of Technology, School of Earth and Atmospheric Sciences, Atlanta, GA, USA

1999 – 2005 **Ph.D** in Atmospheric Sciences, Environmental Engineering and Science Sector, Department of Environment, University of the Aegean, Greece

Thesis: Simulation of physicochemical processes of biogenic aerosols: Their impact on air quality and climate change in the Mediterranean area (in Greek).

1995 – 1999 **Diploma:** University of the Aegean, Department of Environment, Greece

Thesis: Anaerobic Processes in landfill sites – Model for the prediction of biogas production rate from landfills, (in Greek).

ACADEMIC APPOINTMENTS

2019 - today **Assistant Professor** (GOV appointment 2279/04-12-2019)
Department of Mechanical Engineering, University of Western Macedonia, GR

12/2013 - 2019 **Lecturer** (GOV appointment 1402/04-12-2013)
Department of Mechanical Engineering, University of Western Macedonia, GR

LANGUAGES

Greek (Native Language)

English

German

French

RESEARCH BACKGROUND

- 2009 - 2013 **Research Scientist**, Institute of Nuclear & Radiological Sciences and Technology, Energy & Safety, N.C.S.R. "DEMOKRITOS", Greece
- 2006 - 2009 **Research Scientist II**, Georgia Institute of Technology, School of Earth and Atmospheric Sciences, Atlanta, GA, USA
- 2005 - 2006 **Postdoctoral Scholar**, Georgia Institute of Technology, School of Earth and Atmospheric Sciences, Atlanta, GA, USA
- 2005 **Postdoctoral Scholar**, University of the Aegean, Department of Environment, Greece
- 2002 - 2005 **Associate Research Scientist**, University of the Aegean, Department of Environment, Greece
- 2001 - 2004 **Associate Research Scientist**, N.C.S.R. "DEMOKRITOS", Greece

TEACHING EXPERIENCE

Undergraduate Courses:

Department of **Mechanical Engineering**, University of Western Macedonia

- Atmospheric Pollution (2016 – today)
- Numerical Analysis (2014 – today)
- Computational Mechanics (2020 – today)
- Special Topics on Pollution Control Technologies (2020 – today)
- Computational Mechanics II (2014 – 2020)
- Emissions and Transport of Air Pollutants (2014 – 2015)
- Environmental Management (2014)

Department of **Chemical Engineering**, University of Western Macedonia

- Numerical Analysis and Simulation (2016 – today)

Department of **Environmental Engineering**, University of Western Macedonia

- Environmental Engineering Principles (2015 – 2018)
- Atmospheric Dynamics (2016 – 2019)
- Numerical Analysis and Simulation (2016 – today)

Department of **Informatics and Telecommunication Engineering**, University of Western Macedonia.

- Mathematical Modelling and Numerical Analysis (2015 – 2017)

Postgraduate Courses:

MSc Postgraduate Program “**Energy Resources Technologies and Management**”, Department of **Mechanical Engineering**, University of Western Macedonia

- Pollution Control Technologies in Energy Production (2017 – 2019)

MSc Postgraduate Program “**Advanced Engineering of Energy Systems**”, Department of **Mechanical Engineering**, University of Western Macedonia

- Management of Environmental and Energy Systems (2020 – today)

SUPERVISION OF PhD, MSc AND UNDERGRADUATE THESIS

Supervision of PhD Thesis:

- Stergiou, I., «Impacts of climate change on current local climate standards in Southern Europe», Department of Mechanical Engineering, University of Western Macedonia, In progress – Started: December 2015 (Funded from the LIFE – ClimaTree EU project)

Supervision of MSc Thesis:

- Completed: **13**
- In preparation: **1**
- Member of examination committees (2018 – today): **≥ 20**

Supervision of Undergraduate Thesis:

- Completed: **26**
- In preparation: **5**
- Member of Undergraduate examination committees (2016-today): **≥ 40**

Member of PhD Supervising Committees:

- Katsaros, E., "Prevention, Control, Management and Rehabilitation of Natural and Human Disasters and

Emergencies - The Role of the Supply Chain", Department of Mechanical Engineering, University of Western Macedonia, In progress – Started: March 2016

Member of PhD Examination Committees:

- Maragkogianni, A., "Combined methodology for quantification of emissions of gaseous pollutants by ships, estimation of induced social costs and assessment of the environmental performance of ports", School of Production Engineering and Management, Technical University of Crete. Successful Completion March 2017

RESEARCH PROJECTS

A. Project Manager

2022 - 2025	Enhancing Computational efforts for air quality climate change research and their impacts
2021 - 2022	CLIMATREE: Matching Fund 2019
2019 - 2021	CLIMATREE: Matching Fund 2018
2018 - 2022	Adaptation of UoWM's Research Committee and the systems / subsystems of the Institute to the new regulation on personal data
2018 - 2022	Actions in support of the operation of the University of Western Macedonia as a beneficiary in the management and implementation of interventions of the Operational Program "Human Resources Development, Education & Lifelong Learning"
2018 – 2022	Automatic financing project technical assistance
2018 - 2022	Procurement of a certificate of management and administrative capacity from a properly accredited certification body
2018 - 2019	Acquisition of Academic Teaching Experience in Young Scientists Holding a Doctorate 2018 - 2019 at the University of Western Macedonia
2015 - 2020	LIFE CLIMATREE - "A novel approach for accounting & monitoring carbon sequestration of tree crops and their potential as carbon sink areas", LIFE14 CCM/GR/000635 http://www.lifeclimatree.eu
2008-2009	The next generation of aerosol-cloud-chemistry interactions in the NASA Global

Modeling Initiative, NRA-04-OES-04

B. Principal Investigator

- 2013 - 2017 LIFE CONOPS “Development and demonstration of management plans against -the climate change enhanced- invasive mosquitoes in S. Europe”, LIFE12-ENV_GR_000466
<http://www.conops.gr/>
- 2011- 2014 Assessing climate change and air quality impacts in Greece, focusing on their social and economic impacts at the local level, National Strategic Reference framework, National Strategic Reference Framework (NSRF) 2007-2013 grand No 09SYN-31-667.
<http://www2.ipta.demokritos.gr/climaltergr/index.html>
- 2005-2009 Toward an improved representation of aerosol-cloud interactions in global models: studies integrating NASA GMI and remote sensing products, NRA-03-OES-04
- 2005-2006 Chemistry, Aerosols, and Climate: Tropospheric Unified Simulation (CACTUS), NRA-02-OES-06 [Investigations that Contribute to the NAS Earth Science Enterprise’s Multidisciplinary Research in Climate, Chemistry, and Global Modeling]
<http://www-as.harvard.edu/chemistry/trop/ids.html>
- 2005 Pythagoras II - Modeling the PM pollution -formation of new particles (nucleation) in the Mediterranean area.
- 2004-2005 Pythagoras – The contribution of landfill biogas to climate change, air pollution and its renewable energy potential BOND: Biogenic aerosols and air quality in the Mediterranean Area, European Commission, EVK2-CT-200100107
<http://milos.ipta.demokritos.gr/bond/>
- 2002-2004 BOND: Biogenic aerosols and air quality in the Mediterranean Area, European Commission, EVK2-CT-200100107
<http://milos.ipta.demokritos.gr/bond/>
- 2002-2004 AEOLOS: Assessment of Impact of SF6 & PFCs Reservoir Tracers on Global Warming, European Commission, ENK6- CT-2001-00501. <http://milos.ipta.demokritos.gr/aeolos/>

PUBLICATIONS

A. REFEREED PUBLICATIONS IN JOURNALS

- A1. Tagaris, E., **R.E.P. Sotiropoulou**, C. Pilinis and C.P. Halvadakis (2003), Atmospheric Methane Transport near landfill Sites, *Waste Manage. Res.*, **21** (1), 62-73,

<https://doi.org/10.1177/0734242X0302100108>

Impact Factor: 4.432

- A2. Tagaris, E., **R.E.P. Sotiropoulou**, C. Pilinis and C.P. Halvadakis (2003), A Methodology to Estimate Odors around Landfill Sites: The Use of Methane as an “Odor Index” and Its Utility in Landfill Siting, *J. Air Waste Manage.*, **53** (5), 629-634, <https://doi.org/10.1080/10473289.2003.10466198>

Impact Factor: 2.636

- A3. **Sotiropoulou, R.E.P.**, E. Tagaris and C. Pilinis (2004), An estimation of the spatial distribution of agricultural ammonia emissions in the Greater Athens Area, *Sci. Total Environ.*, **318**, 159-169, [https://doi.org/10.1016/S0048-9697\(03\)00373-5](https://doi.org/10.1016/S0048-9697(03)00373-5)

Impact Factor: 10.753

- A4. **Sotiropoulou, R.E.P.**, E. Tagaris, C. Pilinis, S. Andronopoulos, A. Sfetsos and J.G. Bartzis (2004), The BOND project: Biogenic aerosols and air quality in Athens and Marseille Greater Areas, *J. Geoph. Res.*, **109**, D05205, doi:10.1029/2003JD003955, <https://doi.org/10.1029/2003JD003955>

Impact Factor: 5.217

- A5. 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 (2005), Assessment of the Impact of SF6 and PFCs Reservoir Tracers on Global Warming, the AEOLUS study, *Environ. Sci.* (currently known as Journal of Integrative Environmental Sciences), **2**, (2-3) 263 – 272, <https://doi.org/10.1080/15693430500396170>

Impact Factor: 3.143

- A6. **Sotiropoulou, R.E.P.**, J. Medina, and A. Nenes (2006), CCN predictions: Is theory sufficient for assessment of the indirect effect?, *Geophys. Res. Lett.*, **33**, L05816, <https://doi.org/10.1029/2005GL025148>

Impact Factor: 5.576

- A7. **Sotiropoulou, R.E.P.**, E. Tagaris, C. Pilinis, T. Anttila and M. Kulmala (2006), Modeling New Particle Formation During Air Pollution Episodes: Impacts on Aerosol and Cloud Condensation Nuclei, *Aeros. Sci. Tech.*, **40**, 557–572, <https://doi.org/10.1080/02786820600714346>

Impact Factor: 4.809

- A8. Medina, J., A. Nenes, **R.E.P. Sotiropoulou**, L.D. Cottrell, L.D. Ziemba, P.J. Beckman, and R.J. Griffin (2007), Cloud condensation nuclei closure during the International Consortium for Atmospheric Research on Transport and Transformation 2004 campaign: Effects of size-resolved composition, *J. Geophys. Res.*, **112**, D10S31, <https://doi.org/10.1029/2006JD007588>

Impact Factor: 5.217

- A9. **Sotiropoulou, R.E.P.**, A. Nenes, P.J. Adams, and J.H. Seinfeld (2007), Cloud condensation nuclei prediction error from application of Köhler theory: Importance for the aerosol indirect effect, *J. Geophys. Res.*, **112**, D12202, <https://doi.org/10.1029/2006JD007834>

Impact Factor: 5.217

A10. Meskhidze, N., **R.E.P. Sotiropoulou**, A. Nenes, J. Kouatchou, B. Das and J. M. Rodriguez (2007), Aerosol - cloud interactions in the NASA GMI: Model development and indirect forcing assessments for sulfate aerosol, *Atmos. Chem. Phys. Discuss.*, 7, 14295-14330, <https://doi.org/10.5194/acpd-7-14295-2007>

A11. Barahona, D., **R.E.P. Sotiropoulou** and A. Nenes (2011), Global distribution of cloud droplet number concentration, autoconversion rate and aerosol indirect effect under diabatic droplet activation, *J. Geophys. Res.*, **116**, D09203, <https://doi.org/10.1029/2010JD015274>

Impact Factor: 5.217

A12. Tagaris, E., **R.E.P. Sotiropoulou**, N. Gounaris, S. Andronopoulos and D. Vlachogiannis (2013), Air quality over Europe: modelling gaseous and particulate pollutants, *Atmos. Chem. Phys.*, 13, 9661-9673, <https://doi.org/10.5194/acp-13-9661-2013>

Impact Factor: 7.197

A13. Tagaris, E., **R.E.P. Sotiropoulou**, N. Gounaris, S. Andronopoulos and D. Vlachogiannis (2014), 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, *Atmos. Environ.*, 98, 214-223, <https://doi.org/10.1016/j.atmosenv.2014.08.056>

Impact Factor: 5.755

A14. Tagaris, E., **R.-E.P. Sotiropoulou**, N. Gounaris, S. Andronopoulos and D. Vlachogiannis (2015), Effect of the Standard Nomenclature for Air Pollution (SNAP) Categories on Air Quality over Europe. *Atmosphere*, 6, 1119-1128, <https://doi.org/10.3390/atmos6081119> (Invited paper for the special issue "Indoor and Outdoor Air Quality")

Impact Factor: 3.110

A15. 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, <https://doi.org/10.1007/s11356-017-9046-x>

Impact Factor: 5.190

A16. **Sotiropoulou R.E.P.**, M. Serafidou, G. Skodras (2019), Thermal mercury removal from coals: Effect of pyrolysis conditions and kinetic analysis. *Fuel*, 238, 44-50, <https://doi.org/10.1016/j.fuel.2018.10.073>

Impact Factor: 8.035

A17. Stergiou, I., E. Tagaris, **R.E.P. Sotiropoulou** (2021), Investigating the WRF Temperature and Precipitation Performance Sensitivity to Spatial Resolution over Central Europe. *Atmosphere*, 12, 278, <https://doi.org/10.3390/atmos12020278>

Impact Factor: 3.110

A18. Tranoulidis A, **R.-E.P. Sotiropoulou**, K. Bithas, E. Tagaris (2022). Decarbonization and Transition

to the Post-Lignite Era: Analysis for a Sustainable Transition in the Region of Western Macedonia. *Sustainability*, 14(16):10173, <https://doi.org/10.3390/su141610173>

Impact Factor:3.889

- A19. Stergiou I., E. Tagaris, **R.-E.P. Sotiropoulou** (2022). Temperature and Precipitation Bias Patterns in a Dynamical Downscaling Procedure over Europe during the Period 1951–2010. *Atmosphere*, 13(8):1338, <https://doi.org/10.3390/atmos13081338>

Impact Factor:3.110

- A20. Stergiou, I., E. Tagaris, **R.-E.P Sotiropoulou** (2023). WRF Physics Ensemble Performance Evaluation over Continental and Coastal Regions in Germany. *Atmosphere*, 14(1):17. <https://doi.org/10.3390/atmos14010017>

Impact Factor:3.110

B. BOOK CHAPTERS

- B1. **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
- B2. **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, ebook of proceedings, Crete University Press, Eds. M. Kanakidou, N. Mihalopoulos, P. Nastos, Vol. 3, pp 170, ISBN: 978-960-524-430-9, 2014
- B3. Tagaris E., **R.E.P. Sotiropoulou**, N Gounaris, S. Andronopoulos, and D. Vlachogiannis, Modeling air pollution in Europe and the role of anthropogenic and biogenic emissions, 12th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP, ebook of proceedings, Crete University Press, Eds. M. Kanakidou, N. Mihalopoulos, P. Nastos, Vol. 3, pp 186, ISBN: 978-960-524-430-9, 2014
- B4. 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, ebook of proceedings, Crete University Press, Eds. M. Kanakidou, N. Mihalopoulos, P. Nastos, Vol. 2, pp 226, ISBN: 978-960-524-430-9, 2014
- B5. **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>).

- B6. **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
- B7. 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

C. CONFERENCE PROCEEDINGS

2001

- C1. **Sotiropoulou, R.E.P.** and C. Pilinis. *Modeling of photochemical pollution in Athens, Greece – Application of the UAM-AERO and CALGRID modeling systems*. Proceedings of the 7th International Conference of Environmental Science and Technology, Ermoupolis, Syros Island, Greece, 2001. (oral presentation, **extended abstract**)
- C2. 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, Ermoupolis, Syros Island, Greece, September 2001. (poster presentation, **extended abstract**)

2003

- C3. **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 Athena Area*, 4th International Conference on Urban air Quality – Measurements, Modelling and Management, Prague, March 2003 (oral presentation, **extended abstract**)
- C4. **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, Limnos Island, Greece, September 2003 (oral presentation, **extended abstract**)
- C5. 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, Limnos Island, Greece, September 2003 (oral presentation, **extended abstract**)

2004

- C6. **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, Mykonos, Greece, June 2004 (oral presentation, **extended abstract**)
- C7. **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, London, UK, August 2004 (oral presentation, **extended abstract**)
- C8. **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), Budapest, Hungary, September 2004 (oral presentation)
- C9. Sfetsos, A., D. Vlachogiannis, N. Gounaris, A. Stubos, **R.E.P. Sotiropoulou**, E. Tagaris, C. Pilinis, C. Chatzichristos 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, Geneva, Switzerland, October 2004 (oral presentation, **extended abstract**)
- C10. 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, Rome, Italy, October 2004 (oral presentation, **extended abstract**)

2005

- C11. Vlachogiannis, D., **R.E.P. Sotiropoulou**, A. Sfetsos, W. Zhong, J. D. Heigh, D. Erisken, S. Hartving, C. Chatzichristos, E. Tagaris, C. Pilinis, R. Kleven, A. Stubos, and J. Muller, *Assessment 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, Utrecht, The Netherlands, July 2005 (oral presentation, **extended abstract**)
- C12. **Sotiropoulou, R.E.P.**, E. Tagaris, C. Pilinis, T. Anttila and M. Kulmala, *Estimation of new particle formation in Greater Athens Area*, European Aerosol Conference (EAC'2005), Ghent, Belgium, August 2005 (oral presentation)
- C13. **Sotiropoulou, R.E.P.**, E. Tagaris, C. Pilinis, *How biogenic emissions affect aerosol concentrations and radiative forcing in the Mediterranean area*, 24th Annual Conference American Association for Aerosol Research (AAAR 2005), Austin, Texas, USA, October 2005 (oral presentation)
- C14. **Sotiropoulou, R.E.P.**, E. Tagaris, C. Pilinis, T. Anttila and M. Kulmala, *Modeling new particle formation in the Mediterranean area*, 24th Annual Conference, American Association for Aerosol Research (AAAR 2005), Austin, Texas, USA, October 2005 (oral presentation)
- C15. **Sotiropoulou, R.E.P.**, J. Medina, and A. Nenes, *CCN predictions: is theory sufficient for indirect forcing calculations?*, American Geophysical Union (AGU), Fall Meeting, San

Francisco, California, USA, December 2005 (oral presentation)

2006

- C16. **Sotiropoulou, R.E.P.**, A. Nenes, P.J. Adams and J.H. Seinfeld, *Uncertainty in Aerosol Indirect Effect from CCN prediction errors: a Global Modeling Assessment*, 7th International Aerosol Conference, American Association for Aerosol Research (IAC 2006), St. Paul, Minnesota, USA, October 2006 (oral presentation)
- C17. Hsieh, W.C, **R.E.P. Sotiropoulou** and A. Nenes, *Parameterization of cloud droplet formation and autoconversion in large-scale models*, 7th International Aerosol Conference, American Association for Aerosol Research (IAC 2006), St. Paul, Minnesota, USA, October 2006 (oral presentation)
- C18. **Sotiropoulou, R.E.P.**, N. Meskhidze and A. Nenes, *Sensitivity of aerosol indirect forcing and autoconversion to cloud droplet parameterization: an assessment with the NASA Global Modeling Initiative*, American Geophysical Union (AGU), Fall Meeting, San Francisco, California, USA, December 2006 (oral presentation)

2007

- C19. **Sotiropoulou, R.E.P.**, N. Meskhidze, and A. Nenes, *Sensitivity of aerosol indirect forcing and autoconversion to cloud formation parameterization, meteorological field and emission scenarios: An assessment with the NASA Global Modeling Initiative (GMI)*, Geophysical Research Abstracts, Vol. 9, 00981, EGU General Assembly, Vienna, Austria, April 2007
- C20. **Sotiropoulou, R.E.P.**, N. Meskhidze, and A. Nenes, *Aerosol – cloud interactions: Sensitivity of indirect effects to cloud formation parameterization, meteorological fields, and emission scenario*, 26th Annual Conference, American Association for Aerosol Research (AAAR 2007), Reno, Nevada, USA, September 2007
- C21. **Sotiropoulou, R.E.P.**, N. Meskhidze, and A. Nenes, *Aerosol – cloud interactions using the NASA Global Modeling Initiative (GMI)*, American Geophysical Union (AGU), Fall Meeting, San Francisco, California, USA, December 2007

2008

- C22. **Sotiropoulou, R.E.P.**, N. Meskhidze, J. Kouatchou, L. Oreopoulos, J. M. Rodriguez and A. Nenes, *Aerosol - cloud interactions in the NASA GMI: Sensitivity of indirect effects to cloud formation parameterization and meteorological fields*, European Aerosol Conference (EAC'2008), Thessaloniki, Greece, August 2008
- C23. **Sotiropoulou, R.E.P.**, J. Kouatchou, L. Oreopoulos, N. Meskhidze, J. M. Rodriguez and A. Nenes, *Sensitivity of indirect effects to cloud formation parameterization and meteorological fields*, American Geophysical Union (AGU), Fall Meeting, San Francisco, California, USA,

December 2008

- C24. Barahona, D., R.E.P. Sotiropoulou and A. Nenes, *The Importance of Entrainment on Cloud Droplet Number and Indirect Forcing*, American Geophysical Union (AGU), Fall Meeting, San Francisco, California, USA, December 2008

2009

- C25. **Sotiropoulou, R.E.P.**, N. Meskhidze, J. Kouatchou, L. Oreopoulos, J. M. Rodriguez and A. Nenes, *Sensitivity of indirect effects to cloud formation parameterizations and meteorological fields*, 18th International Conference on Nucleation and Atmospheric Aerosols (ICNAA), Prague, Czech Republic, August 2009

2010

- C26. Tagaris E., A. Sfetsos, D. Vlachogiannis, S. Andronopoulos, **R.E.P. 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), Paris, France, June 2010 (poster presentation, **extended abstract**)
- C27. **Sotiropoulou, R.E.P.**, N. Meskhidze, J. Kouatchou, L. Oreopoulos, J. M. Rodriguez and A. Nenes, *Aerosol - cloud interactions in the NASA GMI: Sensitivity of the first aerosol indirect effect to cloud formation parameterization under three different meteorological fields*, International Aerosol Conference (IAC), Helsinki, Finland, August 2010 (oral presentation)
- C28. Karydis, V., P. Kumar, D. Barahona, I. Sokolik, A. Nenes and **R.E.P. Sotiropoulou**, *On the effect of insoluble dust particles on global CCN and droplet number*, 29th Annual Conference, American Association for Aerosol Research (AAAR 2010), Portland, Oregon, USA, October 2010 (oral presentation)
- C29. Karydis, V., P. Kumar, D. Barahona, **R.E.P. Sotiropoulou**, I. Sokolik, and A. Nenes, *On the effect of insoluble dust particles on global CCN and droplet number*, American Geophysical Union (AGU), Fall Meeting, San Francisco, California, USA, December 2010 (oral presentation)

2011

- C30. Sotiropoulou, R.E.P., N. Meskhidze, J. Kouatchou, L. Oreopoulos, J. M. Rodriguez and A. Nenes, *Sensitivity of cloud radiative forcing to cloud formation parameterization under three different meteorological fields*, European Aerosol Conference (EAC), Manchester, UK, September 2011 (oral presentation)
- C31. Barahona, D., **R.E.P. Sotiropoulou**, A. Nenes, *Global distribution of cloud droplet number concentration, autoconversion rate and first aerosol indirect effect under diabatic droplet activation*, European Aerosol Conference (EAC), Manchester, UK, September 2011 (oral

presentation)

- C32. Tagaris E., **R.E.P. Sotiropoulou**, N. Gounaris and S. Andronopoulos, *Modelling PM_{2.5} concentrations over Europe*, European Aerosol Conference (EAC2011), poster presentation, Manchester, UK, September 2011 (poster presentation)
- C33. Tagaris, E., **R.E.P. Sotiropoulou**, N. Gounaris and S. Andronopoulos, *Air quality over Europe: application of CMAQ modelling system*, 14th International Conference on Harmonisation within Atmospheric Dispersion Modelling for Regulatory Purposes, Kos, Greece, October 2011 (oral presentation, extended abstract)

2012

- C34. **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, Athens, Greece, March 2012 (oral presentation, extended abstract)
- C35. Tagaris, E., **R.E.P. Sotiropoulou**, N. Gounaris and S. Andronopoulos, *Atmospheric pollution in Europe: Modelling setup and evaluation*, 8th International Conference on Air Quality – Science and Application, Athens, Greece, March 2012 (poster presentation, extended abstract)
- C36. **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 (EAC), Granada, Spain, September 2012 (oral presentation)
- C37. Tagaris, E., **R.E.P. Sotiropoulou**, N. Gounaris and S. Andronopoulos, *Effect of precursor emissions to PM_{2.5} concentrations over Europe*, European Aerosol Conference (EAC), Granada, Spain, September 2012 (oral presentation)

2013

- C38. 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, Vienna, Austria, April 2013 (oral presentation)
- C39. **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 (EAC), Prague, Czech Republic, September 2013 (oral presentation)
- C40. 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 (EAC), Prague, Czech Republic, September 2013 (oral & poster presentation)

2014

- C41. Michaelakis, A., A. Sotiropoulos, I. Spanos, P. Milonas, **R.E.P. Sotiropoulou** and E. Tagaris, *LIFE CONOPS: Development and demonstration of management plans against -the climate change enhanced- invasive mosquitoes in S. Europe*, International Conference: Adapt to Climate, Nicosia, Cyprus, March 2014 (oral presentation, extended abstract)
- C42. Tagaris, E., **R.E.P. Sotiropoulou**, N. Gounaris, S. Andronopoulos, and D. Vlachogiannis, *Impact of biogenic emissions on ozone and fine particles over Europe: Assessing the effect of temperature increase and the role of anthropogenic NO_x emissions reduction*, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2014 (oral presentation)
- C43. **Sotiropoulou, R.E.P.**, E. Tagaris, A. Sotiropoulos, I. Spanos, P. Milonas, and A. Michaelakis, *Impact of climate change on invasive mosquito species in S.E. Europe*, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2014 (poster presentation)
- C44. **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, Heraklion, May 2014 (oral presentation, extended abstract)
- C45. Tagaris E., **R.E.P. Sotiropoulou**, N Gounaris, S. Andronopoulos, and D. Vlachogiannis, *Modeling air pollution in Europe and the role of anthropogenic and biogenic emissions*, 12th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP, Heraklion, May 2014 (poster presentation, extended abstract)
- C46. 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, Heraklion, May 2014 (oral presentation, extended abstract)
- C47. **Sotiropoulou, R.E.P.**, E. Tagaris, A. Sotiropoulos, I. Spanos, P. Milonas, A. Michaelakis, *Climate change impact on invasive mosquito species in S.E. Europe*, 12th International Conference on Protection and Restoration of the Environment, Skiathos Island, Greece, June 2014 (oral presentation, extended abstract)
- C48. 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”, Skiathos Island, June 2014 (oral presentation, **extended abstract**)

2015

- C49. **Sotiropoulou, R.E.P.**, E. Tagaris, A. Sotiropoulos, I. Spanos, P. Milonas, and A. Michaelakis,

Estimating climate change for Southeast Europe: a dynamical downscaling approach, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2015 ([poster presentation](#))

- C50. Tagaris, E., **R.E.P. Sotiropoulou**, N. Gounaris, S. Andronopoulos and D. Vlachogiannis, *The effect of the Standard Nomenclature for Air Pollution (SNAP) categories on ozone and PM2.5 concentrations over Europe*, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2015 ([oral presentation](#))
- C51. **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*, Global Conference on Global Warming (GCGW-15), Athens, Greece, May 2015 ([oral presentation](#), [extended abstract](#))
- C52. **Sotiropoulou, R.E.P.**, E. Tagaris, A. Sotiropoulos, I. Spanos, P. Milonas, A. Michaelakis, *Downscaling of global climate change estimates to regional scales: the case of Greece*, 10th Chemical Engineering National Conference. Patra, Greece, June 2015 ([oral presentation](#), [extended abstract](#))
- C53. 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*, 10th Chemical Engineering National Conference. Patra, Greece, June 2015 ([oral presentation](#), [extended abstract](#))
- C54. Michaelakis, A., **R.E.P. Sotiropoulou**, E. Tagaris, A. Sotiropoulos, I. Spanos, P. Milonas, *A risk database for the future establishment of Invasive Mosquito Species in Greece and Italy*, 16th National Entomological Conference, Heraklion, Greece, October 2015 ([poster presentation](#))

2016

- C55. **Sotiropoulou R.E.P.**, E. Tagaris, *Air pollution from ships over Europe*, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2016 ([poster presentation](#))
- C56. 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 (poster presentation)
- C57. 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 (poster presentation)
- C58. Stergiou, J., E. Tagaris, **R.E.P. Sotiropoulou**, *Sensitivity Analysis of Climate Change Projection to the Grid Size Resolution over Mediterranean*. The 1st International Electronic Conference on Atmospheric Sciences, Sciforum Electronic Conference Series, Vol. 1, 2016, D002;

doi:10.3390/ecas2016-D002, July 2016, (**extended abstract**)

- C59. Tagaris E., **R.E.P. Sotiropoulou**, A. Sotiropoulos, I. Spanos, D. Papachristos, R. Bellini, P. Milonas, and A. Michaelakis. *The distribution of Aedes aldopictus 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 (oral presentation)
- C60. 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*, XXV International Congress of Entomology, Orlando, Florida, USA, September 2016 (poster presentation)
- C61. **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 (oral presentation, **extended abstract**)
- C62. 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 (oral presentation, **extended abstract**)
- C63. 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 (poster presentation, **extended abstract**)

2017

- C64. **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 (poster presentation)
- C65. 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 (poster presentation)
- C66. 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 (poster presentation)
- C67. **Sotiropoulou R.E.P.**, I. Stergiou, and E. Tagaris, *Estimation of future climate change in the Mediterranean area*, 11th Chemical Engineering National Conference. Thessaloniki, Greece,

May 2017 (oral presentation, **extended abstract**)

- C68. 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 invasive mosquito species: Current state and future appropriateness of south-eastern European regions*, 11th Chemical Engineering National Conference. Thessaloniki, Greece, May 2017 (oral presentation, **extended abstract**)
- C69. Stergiou, J., **R.E.P. Sotiropoulou**, E. Tagaris, *Impact of shipping emissions on ozone concentrations over Europe*, 11th Chemical Engineering National Conference. Thessaloniki, Greece, July 2017 (oral presentation, **extended abstract**)
- C70. Georgaki V., V. Toka, I. Stergiou, E. Tagaris, D. Kolokotronis, **R.E.P. Sotiropoulou**, *Impacts of climate change on energy production efficiency*, 2nd HAEE Energy Conference, Athens, May 2017 (oral presentation)
- C71. 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 (extended abstract)

2018

- C72. **Sotiropoulou, R.E.P.**, I. Stergiou., E. Tagaris, *Climate change projection over Mediterranean under RCP4.5 and RCP8.5*, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2018 (poster presentation)
- C73. Stergiou I., E. Tagaris, **R.E.P. Sotiropoulou**, *A comprehensive sensitivity analysis of the WRF model parameterizations over Europe*, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2018 (poster presentation)
- C74. **Sotiropoulou, R.E.P.**, J. Stergiou., E. Tagaris, *High-resolution downscaling of climate projections for temperature and precipitation over the Mediterranean Region*, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP, Alexandroupoli, October 2018, (poster presentation, **extended abstract**)
- C75. Stergiou, J., E. Tagaris, **R.E.P. Sotiropoulou**, *Calibrating WRF model to surface temperature over Europe*, 14th International Conference on Meteorology, Climatology and Atmospheric Physics, COMECAP, Alexandroupoli, October 2018, (poster presentation, **extended abstract**)

2019

- C76. **Sotiropoulou, R.E.P.**, I. Stergiou., E. Tagaris, *Comparison of precipitation change projections between two RCPs over Southern Europe*, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2019 (poster presentation)

- C77. Tagaris, E., I. Stergiou, **R.E.P. Sotiropoulou**, *Optimizing WRF configuration for assessments over Europe*, European Geosciences Union (EGU) General Assembly, Vienna, Austria, April 2019 (poster presentation)
- C78. **Sotiropoulou, R.E.P.**, M. Serafidou, G. Skodras. *Effect of oxygen functional groups on mercury retention in activated carbons*, 15th International Conference on Environmental Science and Technology, Rhodes, Greece, August 2019 (flash and poster presentation, **extended abstract**)

2020

- C79. **Sotiropoulou, R.E.P.**, I. Stergiou., E. Tagaris, *A Methodology for Optimizing Numerical Weather Prediction Models*, European Geosciences Union (EGU) General Assembly 2020, Online, 4–8 May 2020, EGU2020-4149, <https://doi.org/10.5194/egusphere-egu2020-4149>, 2020 (poster presentation)
- C80. Tagaris, E., I. Stergiou, **R.E.P. Sotiropoulou**, *WRF forecast sensitivity to spatial resolution*, European Geosciences Union (EGU) General Assembly 2020, Online, 4–8 May 2020, EGU2020-4151, <https://doi.org/10.5194/egusphere-egu2020-4151>, 2020 (poster presentation)

2021

- C81. 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**)

2022

- C82. 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**)
- C83. 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**)

D. TRANSLATIONS IN GREEK OF SCIENTIFIC PUBLICATIONS

- D1. Environmental modeling: Fate and transport of pollutants in water, air, and soil. Jerald L. Schnoor, John A. Wiley & Sons, Inc., New York, NY, (1996), 704 Pages, [ISBN No.: 978-0-471-12436-8]. Translation in Greek, Tziolas Eds. (2016), 800 pages, ISBN: 978-960-418-573-3

E. WORKSHOPS AND INVITED SEMINARS IN SYMPOSIUMS

- E1. **Sotiropoulou, R.E.P.**, and A. Nenes, *Impact of CCN Prediction Uncertainty on the Aerosol Indirect Effect: A Global Modeling Assessment*, 4th Annual UCAR/NCAR Early Career Scientists Assembly (ECSA) Junior Faculty Forum on Future Scientific Directions (JFF), Boulder, Colorado, August 1- 3, 2006
- E2. **Sotiropoulou, R.E.P.**, and A. Nenes, *Understanding aerosol-cloud interactions: A modeling approach*, Gordon Research Conference in Atmospheric Chemistry, Big Sky, MT, August 2007

Z. DISSERTATIONS - MONOGRAPHS

- Z1. **PhD Thesis:** Simulation of physicochemical processes of biogenic aerosols: Their impact on air quality and climate change in the Mediterranean area (in Greek).
- Z2. **Undergraduate Thesis:** Anaerobic Processes in landfill sites – Model for the prediction of biogas production rate from landfills, (in Greek).

H. OTHER PUBLICATIONS

- H1. Stergiou, J., **R.E.P. Sotiropoulou**, E. Tagaris, *Impact of shipping emissions on ozone concentrations over Europe*. Technical Inspection, vol. 278, Sept. – Oct. 2017

LECTURE NOTES

A. Undergraduate Courses

Department of **Mechanical Engineering**, University of Western Macedonia

- Atmospheric Pollution
- Numerical Analysis
- Computational Mechanics
- Special Topics of Pollution Control Technologies

Department of **Environmental Engineering**, University of Western Macedonia

- Environmental Engineering Principles
- Atmospheric Dynamics
- Numerical Analysis and Simulation

B. Postgraduate Courses

MSc Postgraduate Program “**Energy Resources Technologies and Management**”,
Department of Mechanical Engineering, University of Western Macedonia

- Pollution Control Technologies in Energy Production

MSc Postgraduate Program “**Advanced Engineering of Energy Systems**”, Department
of Mechanical Engineering, University of Western Macedonia

- Management of Environmental and Energy Systems

HONORS, AWARDS AND RECOGNITIONS

2021	Guest Editor – Atmosphere (MDPI), Special Issue: "Meteorological and Air Quality Modelling"
2021	Guest Editor – Atmosphere (MDPI), Special Issue: “Engine Emissions and Air Quality”
2018	Organizing Committee Member of the 11 th Hellenic Conference “Fluid Flow – Phenomena”.
2015 - today	Editorial Board Member of Iore Journal of Environmental Science
2007	Session chair: “ 5A AEROSOLS, CLOUDS AND CLIMATE: CLOUD PROCESSING AND COMPOSITION ”, 26th Annual Conference, American Association for Aerosol Research (AAAR 2007), Reno, Nevada, USA
2006	UCAR/NCAR Early Career Scientists Assembly (ECSA) Junior Faculty Forum on Future Scientific Directions (JFF)

JOURNAL REVIEWER

- Aerosol Science
- Air Quality and Atmospheric Chemistry
- Applied Sciences
- Atmospheres (MDPI)
- Atmospheric Chemistry and Physics (ACP)
- Atmospheric Research
- Climate
- Electronics (MDPI)
- Environmental Science and Pollution Research

- Environmental Science and Technology (ES&T)
- Frontiers in Environmental Science
- Geophysical Research Letters
- Global Journal of Energy Technology Research Updates
- International Journal of Environmental Research and Public Health
- Journal of Climate
- Journal of Environmental Management (JEMA)
- Journal of Environmental Science and Engineering
- Journal of Geophysical Research – Atmospheres
- Sustainability (MDPI)
- Toxics (MPDI)

RESEARCH PROJECTS EVALUATOR

- European Commission
- Department of Energy (DOE), USA
- International Bureau of the Federal Ministry of Education and Research at the Project Management Agency c/o German Aerospace Center (DLR), Germany
- ERA.Net RUS Plus Innovation
- General Secretariat of Research and Innovation

INVITED SPEAKER

- NASA-Goddard Space Flight Center, Greenbelt, MD, USA, August 27, 2007
- Department of Atmospheric and Oceanic Sciences, University of California Los Angeles, Los Angeles, CA, USA, April 30, 2008
- Department of Environmental Management and Natural Resources, University of Ioannina, Agrinio, GR, September 2009
- Department of Geology, Aristotle University of Thessaloniki, Thessaloniki, GR, January 2010

SCIENTIFIC MEMBERSHIPS

- European Geophysical Union (EGU)
- Hellenic Association for Aerosol Research (HAAR)
- Hellenic Association of Environmental Scientist
- Hellenic Solid Waste Management Association