



Prof. George PAPADAKIS

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CURRENT POSITIONS

- 2009 – today: Professor of renewable energy technologies at AUA
- 2015 – today: Director of the Laboratory of Farm Machine Systems of AUA

PREVIOUS POSITIONS

- 2010-2014: Vice Rector of AUA, responsible for the research and development
- 2002-2009: Associate Professor at AUA, Dept. NRMAE
- 1996-2002: Assistant Professor at AUA, Dept. NRMAE
- 1992-1996: Researcher at AUA, (energy projects)
- 1991-1992: Researcher at CRES (Centre for Renewable Energy Sources and Energy Efficiency, Greece)
- 1989-1990: Military service
- 1989: PhD from the Agricultural University of Athens on Agricultural Engineering
- 1983: Diploma on Agricultural Engineering from AUA

TEACHING

Prof. Papadakis has played a key role at AUA for the advancement of the academic activities in the field of sustainable energy. He has guided AUA in introducing relevant courses and he has succeeded in founding an accredited postgraduate program of studies at the Dept. NRMAE on “Energy Systems and Renewable Energy” which started operating since the year 2000.

He has also significantly contributed to the reform of the curriculum of the undergraduate studies of the Dept. of NRMAE during the years 2002-2003.

In the period 2012-2016, he has been involved in a TEMPUS, European Union funded project regarding “Solar energy system design using advanced learning aids” where modern educational material was developed, that is PowerPoint presentations, videos and texts regarding solar energy (photovoltaics and solar thermal) systems design in the English and the Arabic languages. He is coordinator of two ERASMUS plus projects (2017-2020) funded by the European Union regarding the development and implementation of training material on “Sustainable Agriculture” with partner universities from Italy, Portugal, and China, Indonesia, Laos and Vietnam.

For more than 20 years (since September 1996) he has been teaching a series of courses on graduate and postgraduate level at AUA, including courses on Renewable Energy Technologies, on Energy efficiency, on Energy and the Environment and on Heat and Mass transport processes.

He has been invited to deliver courses/seminars in universities such as MIT-Boston, USA; University of South Florida-Tampa, USA; Columbia University-NYC, USA; Liege University-Liege, Belgium; Ghent University-Ghent, Belgium, Brunel University-London, UK; University Cadi Ayyad-Marrakech, Morocco; Alexandria University-Alexandria, Egypt; Cairo University-Cairo, Egypt; Southeast University-Nanjing, China; Southwest University-Chongqing, China, Tay Nguyen University-Buon Ma Thuot, Vietnam, IPB University-Bogor, Indonesia, Seoul National University-Seul, S. Korea.

MAJOR CONTRIBUTIONS TO THE EARLY CAREERS OF STUDENTS AND RESEARCHERS

He has directly supervised 5 PhD (multi-national) students in the field of renewable energy and he is currently directly supervising 1 PhD student in the field of renewable energy powered desalination. He has also supervised numerous students at AUA, (more than 60 graduate students and more than 20 post graduate students).

RESEARCH – RESEARCH INTERESTS

Prof. Papadakis has been working in the field of renewable energy for more than 20 years. His research activity is focused on renewable energy technologies (including their applications in agriculture and food processing). Major research activities regard water desalination powered by renewable energy (solar photovoltaic and wind) and other energy sources. He has also been working on the development and application of microgrids consisted of renewable energy technologies for electricity supply, on the development of energy systems based on the Organic Rankine Cycle (ORC) and on biofuels' deployment for power production.

Since 1997 (after his appointment as academic staff at AUA) he has been scientific manager and principal investigator of more than 30 projects. Of those competitive projects more than 17 were funded by the European Commission of the European Union, 3 were bilateral projects (between Greece and Germany, Romania, Hungary) while more than 10 projects were funded by national organisations. He has gained extensive experience in setting up competitive research proposals and in managing and executing research projects and experimental research through multi-national, multi-partner projects, most of which had interdisciplinary character.

PUBLICATIONS

Since 1988, he has published more than **180 papers**, (82 papers in refereed journals and books, 1 book, more than 100 papers in international and national conference proceedings and many other publications such as workshop papers, project reports, popular magazine articles etc.). It is worthwhile mentioning that most of his publications combine theoretical and experimental engineering work (in the lab and in the field).

Scopus reports (July 2020) more than **4850 citations** with **h** index equal to **39**.

Google scholar reports (July 2020) more than **7750 citations** with **h** index equal to **45**, https://scholar.google.gr/citations?hl=el&user=kF-s6CsAAAJ&view_op=list_works&sortby=pubdate.

DISTINCTIONS

- Editor in chief of the (new) international journal “Green Energy and Sustainability”, <http://www.pivotscipub.com/ges>.
- Member of Editorial Boards of six (6) international Journals, namely:
 - Applied Science, (Energy Sector, <http://www.mdpi.com/journal/applsci/editors>).
 - Modern Environmental Science and Engineering, (<http://www.academicstar.us/journalsshow.asp?ArtID=397>).
 - Journal of Power and Energy Engineering, (www.scirp.org/journal/jpee).
 - Journal of Fundamentals of Renewable Energy and Applications, (<https://www.omicsonline.org/editorialboard-fundamentals-renewable-energy-applications-open-access.php>).
 - Journal of Renewable and Sustainable Energy, (member of the Editorial Advisory Board), (<http://aip.scitation.org/rse/info/advisory>).
 - Journal of Energy and Power Technology, (<http://www.lidsen.com/journals/jept/jept-editorial-board>).
- Appointed Chairman of the “Scientific council” of ELGO-DIMITRA of the Greek Ministry of Agricultural Development and Food, (3 years term, 2020 - 2023).
- Top cited author internationally in the field of Organic Rankine Technology (ORC) for the period 2000-2016, (as mentioned by, *Imran et al. (2018). Recent research trends in organic Rankine cycle technology: A bibliometric approach. Renewable and Sustainable Energy Reviews, 81, pp. 552-562*).
- Distinguished expert of the Chinese government and guest professor (continuously between 2015 and 2019) at the Southeast University, Nanjing, China.
- Invited member (2016) of the “scientific council” of CIEMAT-Plataforma Solar de Almería, Spain.
- Selected NK4 expert (2016) on desalination for the European Union project “Pump-storage Santiago Island/Cape Verde – Economic and financial simulations to define the PPP Strategy”.
- Invited founding member (2015) of the “Global Clean Water Desalination Alliance-H2O minus CO2”, <https://www.gcwda.org/>.
- Invited founding fellow (2015) of the International Academy of Agricultural and Biological Engineering of CIGR, (Committee International on Agricultural Engineering), <http://cigr.org/Governance/academy.php>.

- Fellow of the European Academy of Sciences, <https://www.eurasc.org/>
- Recognition award 2010 for his services to the European Society of Agricultural Engineers (EurAgEng).
- Awarded the lifetime distinction of “CIGR Fellow” at the ASAE annual international meeting/CIGR XVth world congress, 28-31/7/2002, Chicago, USA, (ASAE: American Society of Agricultural Engineers).

INVITATIONS TO PEER-REVIEWED JOURNALS & INTERNATIONAL CONFERENCES (past 10 years)

- Invited guest editor of the international journal “Applied Sciences” for a journal special issue, “Water desalination powered by renewable energy”, (2020).
- Invited from the European Desalination Society to deliver an opening key-note speech at the international conference “Desalination for the Environment: Clean Water and Energy Science, Research, Innovation, Industry, Business”, 3–6 Sep 2018, Athens, Greece
- Invited to write editorial articles (as member of the editorial board) of the international journals: “Applied Sciences” (2019 and 2018) and the “Journal Fundamentals Renewable Energy Applications” (2017).
- Invited from the International Desalination Society (IDA) to the Energy and Environmental Forum. The theme of the Forum was “Creative Solutions and Innovative Strategies to Today’s Water Challenges”, Dec 7–8, 2016, Miami, Florida, USA. Contribution on “Aspects of Variable Operation of Autonomous and Island Grid Connected RO Desalination Systems”. A “Blue Paper” (proceedings) has been published from Purdue University, <https://docs.lib.purdue.edu/mewp/1/>.
- Invited from the Massachusetts Institute of Technology (MIT) Abdul Latif Jameel World Water and Food Security Lab to the “Low Carbon Desalination Workshop”, MIT October 17-18, 2016. Report published at <http://web.mit.edu/lowcdesal>.
- Invited Guest Professor at the Southeast University, Nanjing, China, to deliver a series of lectures on Renewable Energy Technology and Energy Efficiency for the MSc. Programme of the School of Energy and Environment in 2015, 2016, 2017 2018 and 2019.
- Invited by Jinyue Yan (Editor) to write a chapter on renewable energy driven desalination in the Handbook of Clean Energy Systems: E. Sh. Mohamed, G. Papadakis. Advances of renewable energy powered desalination. In, Handbook of Clean Energy Systems, Jinyue Yan (Editor). John Wiley & Sons, 2015.
- Invited by GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit), Germany to present his research results on renewable energy powered desalination at the International Conference on Renewable Energy Desalination organised in Tunis, Tunisia, June 11-12, 2012.

SERVICE

He is member of several Institutional, National, and International Scientific Advisory Boards and Scientific Societies such as the International Solar Energy Society, the European Desalination Society (EDS) and the European Society of Agricultural Engineers.

He has been member of Scientific and Organising Committees of many national and international conferences such as European Photovoltaic conferences (EUPVSEC), EDS conferences, European Biomass conferences (EUBCE), EurAgEng conferences.

He has been chairman and conference organizer of two international conferences:

- Chairman of the international conference AgEnergy’99, “Energy and Agriculture towards the Third Millennium”, Agricultural University of Athens, 2-5 June 1999, (~ 350 participants).
- Chairman of the European conference of Agricultural and Biosystems Engineering, AgEng2008, Hersonissos Crete, 23-25 June 2008, (~ 850 participants).

He has serviced as reviewer in more than 20 international scientific journals.

He has served as evaluator of research proposals of the:

- European Commission of the European Union, (EU Framework Programmes 5, 6, and 7 and H2020).
- Middle East Desalination Research centre (MEDRC)
- Italian Ministry of Education.
- Czech Science Foundation.
- General Secretariat of Research and Technology of Greece.
- National Scholarship Foundation of Greece.