

CURRICULUM VITAE

ESSAM SHABAN BERSY MOHAMED

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CURRENT POSITION: ASSISTANT PROFESSOR

SCHOOL OF SCIENCES AND ENGINEERING - INSTITUTE OF GLOBAL HEALTH & HUMAN ECOLOGY (IGHHE) - THE CENTER FOR APPLIED RESEARCH ON THE ENVIRONMENT AND SUSTAINABILITY - CARES- THE AMERICAN UNIVERSITY IN CAIRO.

EDUCATION

2014-2016

Post – Doctoral fellow in a project funded by the General Secretary for Research and Technology (GSRT) “SolMed – Solar Assisted Membrane Distillation – optimization of processes and material.” From 2014 until 2016.

2012-2015

Post – Doctoral fellow in a project funded by the General Secretary for Research and Technology (GSRT) “Direct driven (battery-less) photovoltaic/wind turbine reverse osmosis desalination employing computational intelligence techniques” from 2012 until 2015.

2012-2013

Post – Doctoral fellow at the Institute of Soil Science and Plant Cultivation – State Research Institute within the EU “PROFICIENCY” project “Strengthen IUNG’s proficiency on Managing the Production of Food and Feedstuff, their Safety and Quality under Global Climatic Changes” – 2012 - 2013

2010-2011

Post – Doctoral studies regarding Energy and Water Management in Hydroponic Greenhouses. 2010 - 2011

2002-2009

PhD - Agricultural University of Athens Department of Natural Resources & Agricultural Engineering, joint with the Laboratory of Solar and other Energy Systems, Institute of Nuclear Technology – Radiation Protection, National Center of Scientific Research - NCSR “Demokritos”

PhD in Application of renewable energy systems for seawater desalination by reverse osmosis.

2000-2002

MSc - Agricultural University of Athens Department of Natural Resources & Agricultural Engineering Section of Agricultural Constructions & Agricultural Engineering

MSc in Energy systems – Simulation of hybrid renewable energy system for powering reverse osmosis desalination system.

1989-1993

BSc – Cairo University, Faculty of Agriculture, Department of Agricultural Engineering
BSc of Agricultural Science

SCHOLARSHIPS

One-year Post – Doctoral scholarship from the State Scholarships Foundation (IKY) for the conduction of Post – Doctoral study at the Agricultural University of Athens, Department of Natural Resources & Agricultural Engineering Section of Agricultural Constructions & Agricultural Engineering, in the field of Energy and Water Management in Hydroponic Greenhouses.

Five years PhD scholarship from the Laboratory of Solar and other Energy Systems, Institute of Nuclear Technology – Radiation Protection, National Center of Scientific Research - NCSR “Demokritos” for the completion of PhD thesis.

PUBLICATIONS

Publications in international Journals

1. P. Boutikos, **Essam Sh. Mohamed**, E. Mathioulakis, V. Belessiotis. A theoretical approach of a vacuum multi-effect membrane distillation system. Desalination, Volume 422 (2017) Pages 25 – 41.

2. E. Dimitriou, P. Boutikos, **Essam Sh. Mohamed**, Slawomir Koziel's and G. Papadakis. Theoretical performance prediction of a reverse osmosis desalination membrane element under variable operating conditions. *Desalination*, Volume 419 (2017): Pages 70-78.
3. **Essam Sh. Mohamed**, P. Boutikos, E. Mathioulakis, V. Belessiotis. Experimental evaluation of the performance and energy efficiency of a Vacuum Multi-Effect Membrane Distillation system. *Desalination*, Volume 408 (2017) Pages 70-80.
4. P. Kofinasa, A.I. Dounis, **Essam Sh. Mohamed**, G. Papadakis. Adaptive neuro-fuzzy model for renewable energy powered desalination plant. *Desalination and Water Treatment*. Accepted for publishing October 2016.
5. Dimitris Georgiou, **Essam Sh. Mohammed**, Stelios Rozakis. Multi-criteria decision making on the energy supply configuration of autonomous desalination units. *Renewable Energy*, Volume 75, 2015, Pages 459 - 467.
6. E. Dimitriou, **Essam Sh. Mohamed**, G. Kyriakarakos and G. Papadakis (2014). Experimental investigation of the performance of a reverse osmosis desalination unit under full- and part-load operation. *Desalination and Water Treatment*, DOI: 10.1080/19443994.2014.933623.
7. Evangelos Dimitriou, **Essam Sh. Mohamed**, Christos Karavas, George Papadakis (2014). Experimental comparison of the performance of two reverse osmosis desalination units equipped with different energy recovery devices. *Desalination and Water Treatment*. DOI: 10.1080/19443994.2014.957935
8. **Essam Sh. Mohamed**, G. Papadakis, E. Mathioulakis and V. Belessiotis. A direct-coupled photovoltaic seawater reverse osmosis desalination system toward battery based systems — a technical and economical experimental comparative study. *Desalination*, Volume 221, Issues 1-3, 1 March 2008, Pages 17-22.
9. D. Manolagos, **Essam Sh. Mohamed**, I. Karagiannis and G. Papadakis. Technical and economic comparison between PV-RO system and RO-Solar Rankine system. Case study: Thirasia Island. *Desalination*, Volume 221, Issues 1-3, 1 March 2008, Pages 37-46.
10. **Essam Sh. Mohamed**, G. Papadakis, E. Mathioulakis and V. Belessiotis. An experimental comparative study of the technical and economic performance of a small reverse osmosis desalination system equipped with hydraulic energy recovery unit. *Desalination*, Volume 194, Issues 1-3, 10 June 2006, Pages 239-250.
11. **Essam Sh. Mohamed**, G. Papadakis, E. Mathioulakis and V. Belessiotis. The effect of hydraulic energy recovery in a small seawater reverse osmosis desalination system; experimental and economical evaluation. *Desalination*,

Volume 184, Issues 1-3, 1 November 2005, Pages 241-246.

12. D. Manolakos, G. Papadakis, **Essam Sh. Mohamed**, S. Kyritsis and K. Bouzianas. Design of an autonomous low-temperature solar Rankine cycle system for reverse osmosis desalination. *Desalination*, Volume 183, Issues 1-3, 1 November 2005, Pages 73-80.
13. **Essam Sh. Mohamed** and G. Papadakis. Design, simulation and economic analysis of a stand-alone reverse osmosis desalination unit powered by wind turbines and photovoltaics. *Desalination*, Volume 164, Issue 1, 25 March 2004, Pages 87-97.

Book chapters

1. Renewable and Efficient Electric Power Systems. Translated to Greek. Pedio publications ISBN: 978-960-546-743-2, in Greek.
2. Advances of renewable energy powered desalination. Handbook of Clean Energy Systems, ISBN: 978-1-118-99197-8 | June 2015, Wiley publications.
3. Operating RE/Desalination Units, Seawater Desalination Green Energy and Technology, 2009, 247-272, DOI: 10.1007/978-3-642-01150-4_10
Michael Papapetrou, Essam Sh. Mohamed, Dimitris Manolakos, George Papadakis, Vicente J. Subiela and Baltasar Peñate.
<http://www.springerlink.com/content/m0l5m73l154j4073/>
4. The Economy of Water, INTERDISCIPLINARY INSTITUTE FOR ENVIRONMENTAL RESEARCH (DIPE). Athens 2009, ISBN 978-960-19-0448-1, in Greek.
5. SMALL AUTONOMOUS RO DESALINATION SYSTEMS POWERED BY RENEWABLE ENERGIES. TECHNOLOGICAL ADVANCES AND ECONOMICS. G. PAPADAKIS, **E.SH. MOHAMED** and D. MANOLAKOS
Solar Desalination for the 21st Century. NATO Security through Science Series, 2007, 293-303, DOI: 10.1007/978-1-4020-5508-9_22
<http://www.springerlink.com/content/31j012458p21675p/>
6. ADIRA HANDBOOK - A guide to autonomous desalination system concepts. Co funded by the European Union. ISBN 978-975-561-311-6 , 2007

Publications in International Conferences

1. Evangelos Dimitriou, **Essam Sh. Mohamed**, George Kyriakarakos, G.

- Papadakis. Experimental investigation of the performance of a reverse osmosis desalination unit under full and part load operation, in Proc. Of the International Conference “Water Is Necessary for Life - WIN4Life”, 19-21 Sep. 2013, Tinos Island, Greece.
2. B.F. Tchanche, **Essam Sh. Mohamed**, and G. Papadakis, Solar energy: a solution for energy poverty in Africa, in Proc. of ISES Solar World Congress, 11-14 Oct. 2009, Johannesburg, South Africa.
 3. G. Papadakis, **Essam Sh. Mohamed**, G. Kyriakarakos, Abdel-Wahab S. Kassem "Hybrid renewable energy systems for the supply of services in rural settlements of mediterranean partner countries. The HYRESS project “The case study of the hybrid system in Egypt” 24th European photovoltaic conference, Hamburg, Germany – 2009.
 4. George Kyriakarakos, **Essam Mohamed**, George Papadakis "Experimental Operation and Evaluation of a Hybrid Renewable Energy Polygeneration Microgrid "International Conference and Exhibition Renewable Energy BEXCO & Nurimaru, Busan, Korea – 2008.
 5. **Essam Sh. Mohamed**, G. Papadakis, E. Mathioulakis, and V. Belessiotis "A direct coupled photovoltaic seawater reverse osmosis desalination system toward battery based systems — a technical and economical experimental comparative study", paper presented at International Conference - Desalination and the environment, 22-25 April Halkidiki-Greece - (2007).
 6. G. Papadakis, **Essam Sh. Mohamed**, and D. Manolakos (2007), Small autonomous RO desalination systems powered by renewable energies. Technological advances and economics, paper presented at 3rd International Conference on Solar Radiation and Day Lighting SOLARIS 2007, 7-9 February, New Delhi-India.
 7. G. Kyriakarakos, **Essam Sh. Mohamed** and G. Papadakis (2006), Creation of a software design model and realization of a hybrid renewable energy polygeneration system. Renewable Energy Conference, Japan
 8. G. Kyriakarakos, **Essam Sh. Mohamed** and G. Papadakis (2006), Creation of a multi criteria environmental economic model to assist the design of autonomous renewable energy polygeneration systems. Great Wall Renewable Energy Forum, China.
 9. **Essam Sh. Mohamed**, G. Papadakis, E. Mathioulakis, and V. Belessiotis (2006), A techno-economic experimental investigation of a direct coupled photovoltaic sea water reverse osmosis desalination system. Paper presented at Global Conference on Renewable Energy Approaches for Desert Regions GCREADER, 18-22 September, Amman-Jordan.
 10. G. Kyriakarakos, **Essam Sh. Mohamed**, S. Rozakis, and G. Papadakis (2006), Renewable Energy Polygeneration Systems: A viable Solution for

the Desert Regions, paper presented at Global Conference on Renewable Energy Approaches for Desert Regions - GCREADER, 18-22 September, Amman - Jordan.

11. **Essam Sh. Mohamed**, G. Papadakis, E. Mathioulakis, and V. Belessiotis (2005), The effect of hydraulic energy recovery in a small sea water reverse osmosis desalination system, an experimental and economical evaluation, paper presented at International Conference of Desalination and the environment, 22-25 May, Santa Margherita-Portofino-La Spezia-Italy.
12. **Essam Sh. Mohamed**, and G. Papadakis (2004a), A stand alone sea water reverse osmosis desalination unit powered by hybrid wind-photovoltaic system for rural development and small villages, paper presented at CIGER International Conference, 11-14 October, Beijing - China.
13. **Essam Sh. Mohamed**, and G. Papadakis (2004b), A stand alone sea water reverse osmosis desalination unit powered by hybrid wind-photovoltaic system for rural development and small villages, paper presented at International Conference in Agricultural Engineering AgEng 2004 'Engineering the future', September, Leuven - Belgium.
14. **Essam Sh. Mohamed**, and G. Papadakis (2004c), A TRNSYS Dynamic Simulation Model for a stand alone PV system powering a reverse osmosis desalination unit with energy recovery system, paper presented at 19th European Photovoltaic Solar Energy Conference and Exhibition, 7-11 June, Paris - France.
15. **Essam Sh. Mohamed**, and G. Papadakis (2003c), TRANSYS dynamic simulation of a stand alone hybrid wind-PV system powering a reverse osmosis desalination unit with hydraulic energy recovery, paper presented at 2nd European PV-Hybrid and Mini-Grid Conference, 25-26 September, Kassel - Germany.
16. **Essam Sh. Mohamed**, and G. Papadakis (2003a), Design simulation and economic analysis of reverse osmosis desalination plant powered by hybrid renewable energy system, paper presented at Renewable Energy Sources for Islands Tourism and Water Desalination, 25-28 May, Crete - Greece.
17. **Essam Sh. Mohamed**, and G. Papadakis (2003b), Design simulation and economic analysis of reverse osmosis desalination plant powered by Wind turbine and Photovoltaics, paper presented at 3rd European PV-Hybrid and Mini-Grid Conference, 25-26 September, Kassel - Germany.

Publications in National Conferences

1. **Essam Sh. Mohamed**, G. Papadakis, E. Mathioulakis and V. Belessiotis, Experimental study of a direct coupled reverse osmosis desalination unit with

Photovoltaic system. 5th National Conference on Agricultural Engineering, Larisa, Greece, November 2007.

2. **Essam Sh. Mohamed**, G. Papadakis, E. Mathioulakis and V. Belessiotis, Development of a hybrid Wind /PV system for electricity production for an autonomous reverse osmosis desalination unit. 4th National Conference on Agricultural Engineering, Athens, Greece, 6 – 8 October 2005.
3. **Essam Sh. Mohamed**, G. Papadakis, E. Mathioulakis and V. Belessiotis, Theoretical and experimental investigation of hybrid Wind / PV system powering reverse osmosis desalination unit. National Conference for renewable energy applications. Athens, Greece, 23 – 25 2005.

Thesis

1. Post-doctoral Thesis: Energy and water consumption reduction in hydroponic greenhouses through the implementation of the NGS hydroponic system and the penetration of renewable energy.
2. PhD Thesis: Design and simulation of seawater reverse osmosis system with energy recovery powered by hybrid Wind/PV system.
3. MSc Thesis: “Design and Simulation of small scale sea water reverse osmosis unit powered by hybrid renewable energy system”
4. Diploma Thesis: Hydraulic Calculations in Drip and sprinkler irrigation.

Project Reports

1. Report “Design of Smart Sea Water Desalination Unit” within the project Direct driven (batter-less) photovoltaic/wind turbine reverse osmosis desalination employing computational intelligence techniques co-funded by **GENERAL SECRETARY FOR RESEARCH AND TECHNOLOGY (GSRT)**.
2. Report “Green Village project, Agios Georgios, Municipality of Makrakomis. Towards a zero energy balance and zero CO₂ emissions village” **THE MINISTRY OF ENVIRONMENT, ENERGY AND CLIMATE CHANGE AND THE CENTER OF RENEWABLE ENERGY SOURCES AND SAVING** (2012)
3. Report “Waste Cooking Oil (WCOs) and Animal Fats (AFs) as feedstock for biodiesel production”, **HELLAS OIL BIODIESEL COMPANY** Project, (2012).
4. Report “Legal framework and possibilities for establishing multimillion battery recycling factory and/or importing lead and scrap batteries from Egypt”, **ALTERNATIVE SYSTEMS FOR BATTERY RECYCLING COMPANY** (2012)

5. Report – Study “New type of greenhouses in Greek market” a study and report submitted on behalf **SOLAR LOGIC S.A. COMPANY** to the Hellenic Ministry of Rural Development and Food for obtaining a permission of manufacturing and installation of agricultural greenhouses using photovoltaics as a source of Energy, (2012).
6. Report “Current status of automotive batteries recycling industry in Egypt”, **ALTERNATIVE SYSTEMS FOR BATTERY RECYCLING COMPANY** Project Alternative Systems for Batteries Recycling Company Project, (2011).
7. Report “DESIGN OF 100 KW UNIT (50 KW PV AND 50 KW WIND TURBINE) INCLUDING DESIGN SOFTWARE, LIST OF COMPONENTS, SIZE AND NUMBERS OF EACH COMPONENT AND BLUE PRINTS” Development of Hybrid Renewable Energy – RO Desalination System and Minigrids For Remote And Desert Areas in Egypt. **Project funded by Egyptian Science and Technology Development Funds, STDF**, (2010).
8. Report “STATE OF THE ART, LITERATURE REVIEW OF HYBRID RE SYSTEMS MAIN PLAYERS IN HYBRID RE SYSTEMS IN EGYPT AND WORLDWIDE AND SOCIOECONOMIC PORTRAIT OF EGYPT RELATED TO RE” Development of Hybrid Renewable Energy – RO Desalination System and Minigrids For Remote And Desert Areas in Egypt. **Project funded by Egyptian Science and Technology Development Funds, STDF**, (2010).
9. Report “ANALYTICAL SYSTEM SPECIFICATIONS FOR THE CALL OF TENDER” Development of Hybrid Renewable Energy – RO Desalination System and Minigrids For Remote And Desert Areas in Egypt. **Project funded by Egyptian Science and Technology Development Funds, STDF**, (2010).
10. Report “IDENTIFICATION OF CURRENT AVAILABILITY OF COMMERCIAL HYBRID RES TECHNOLOGIES AND ITS COMPONENTS” Hybrid Renewable Energy Systems in Rural Settlements of Mediterranean Partner Countries, HYRESS project” **SIXTH FRAMEWORK PROGRAMME**, Specific measures in support of international cooperation — Mediterranean Partner Countries (MPC), Specific Targeted Research Projects (STREP) and Coordination Actions (CA) for Mediterranean Partner Countries (MPC), (2006).
11. Report “PROPOSITION OF APPROPRIATE CONCEPTS AND TOPOLOGIES FOR RENEWABLE ENERGY HYBRID SYSTEMS TO BE DEVELOPED AND APPLIED” Hybrid Renewable Energy Systems in Rural Settlements of Mediterranean Partner Countries, HYRESS project” **SIXTH FRAMEWORK PROGRAMME**, Specific measures in support of international cooperation — Mediterranean Partner Countries (MPC), Specific Targeted Research Projects (STREP) and Coordination Actions (CA) for Mediterranean Partner Countries (MPC), (2007).

12. Report “HYBRID SYSTEMS DESIGN BLUE PRINTS FOR THE SYSTEMS IN EGYPT AND TUNISIA” Hybrid Renewable Energy Systems in Rural Settlements of Mediterranean Partner Countries, HYRESS project” **SIXTH FRAMEWORK PROGRAMME**, Specific measures in support of international cooperation — Mediterranean Partner Countries (MPC), Specific Targeted Research Projects (STREP) and Coordination Actions (CA) for Mediterranean Partner Countries (MPC), (2008).
13. Report “Decision Support Tool”, Euro-Mediterranean Regional Program For Local Water Management. Autonomous desalination system concepts for sea water and brackish water in rural areas with renewable energies – Potentials, Technologies, Field Experience, Socio-technical and Socio-economic impacts – **ADIRA Project**. (2003 – 2007).

WORKING EXPERIENCE

Consultancy work

1. November 2016 – Today

EU consultant for the project “Technical assistance for energy efficiency and sustainable transport in Cyprus” funded by EU and the German Federal Ministry of Economics and Technology (BMWi) and managed by GIZ.

2. July 2016 – Today

EU consultant for the “Sustainable Energy for all” (SE4ALL) initiative – Contract Europe Aid 2013/336063 – East and Southern Africa – ES-0057. Consultancy work for the development of the developing criteria for a Call for Proposals for the efficient cook stoves and mini-grids for the kingdom of Lesotho – South Africa.

Research work

3. August 2014 – 2016

“SolMed – Solar Assisted Membrane Distillation – optimization of processes and material.” Project co-funded by General Secretary for Research and Technology (GSRT).

4. October 2012 – 2016

“Solar Energy System Design using Advanced Learning Aids – SOLEDA” Research program funded by EU TEMPUS 2012-2015.

5. December 2012 – 2015

“Direct driven (batter-less) photovoltaic/wind turbine reverse osmosis desalination employing computational intelligence techniques co-funded by General Secretary for Research and Technology (GSRT).

- 6. June 2010 – June 2012**
“Development of Hybrid Renewable Energy – RO Desalination System and Minigrids For Remote And Desert Areas in Egypt”, HAREDES, Research program funded by Egyptian Science and Technology Development Funds, STDF. Alexandria University.
- 7. January 2012 – September 2012**
“Green Village project, Agios Georgios, Municipality of Makrakomis. Towards a zero energy balance and zero CO₂ emissions village”, Project funded by the Municipality of Makrakomis.
- 8. July 2011 – November 2011**
“Used **cooking** oil and animal fats as feedstock for biodiesel production”, Research program funded by a biodiesel production company named HELLASOIL.
- 9. October 2006 – October 2009**
“Hybrid Renewable Energy Systems in Rural Settlements of Mediterranean Partner Countries, HYRESS project”, Project funded by the European Commission, Fb6 framework program.
- 10. July 2005 – July 2006**
“Co-ordination action for autonomous desalination units based on renewable energy systems – ADU-RES”, Project funded by the European Commission, Fb6 - INCO framework program.
- 11. January 2005 – January 2006**
“Reformation of the undergraduate study program of the Department of Natural Resources & Agricultural Engineering of Agricultural University of Athens”, Program of the Greek Ministry of Education.
- 12. September 2003 – May 2004**
“The INCO Project Cluster for Water Application Projects in the South Mediterranean Countries – Med Aqua 2”, Project funded by the European Commission, INCO - MED framework program.
- 13. October 2004 – May 2005**
“Development of an Autonomous low temperature solar Rankine Cycle System for Reverse Osmosis Desalination”, Project funded by the European Commission, Cooperative research Project.
- 14. December 2003 – July 2008**
“Autonomous desalination system concepts for sea water and brackish water in rural areas with renewable energies – Potentials, Technologies, Field Experience, Socio-technical and Socio-economic impacts – **ADIRA Project**”, Project funded by the European Commission, MEDA framework program.

15. December 2003 – May 2006

“Alternative fuels for industrial gas turbines - (AFTUR)”, Project funded by the European Commission, Fb5 framework program.

16. December 2002 – March 2003

“Application of neural networks for sizing hybrid renewable energy systems for electricity production”, Project funded by the Hellenic Ministry of Development, General Secretary for Research and Technology. Joint research and Technology Projects between Greece and Hungary.

17. May 2000 – June 2000

“Investigation of Photovoltaic water pumping systems”, Project funded by the European Commission, Cooperative project.

Work in private sector

1. January 2011 – March 2012

Project manager at Solar +Logic S. A. Energy analyst – Photovoltaic and agricultural applications - project manager

2. April 2010 – January 2011

Project manager at AGREK C. Samantouros S. A. Coordinating Agricultural constructions projects from design to realization.

3. January 1993 – September 2002

Agricultural Engineer at the Embassy of Saudi Arabia in Athens – Greece

Teaching Experience

November 2012 – April 2016

Lecturer and trainer for Solar Energy Systems and Solar Radiation in Cairo University, Fayoum University and South Valley University.

June 2009 – June 2010

Lecturer in desalination systems design, National Technical University of Athens, Faculty of Chemical Engineering, (Lectures and distant learning program).

September 2002 – December 2009

Laboratory of Agricultural Mechanization - Agricultural University of Athens in Renewable Energy technologies and Applications, Design and Simulation.

Experience as project evaluator:

■ **September 2014 – Today**

Short term Expert for Technical Assistance to the Higher Council for Science and Technology (HCST) for the implementation of the Support to Research, Technological Development and Innovation in Jordan – Phase II (SRTD II), Jordan; for two Grant Schemes: Applied Research and Commercialisation.

■ **November 2011 - Today**

Brussels TEMPUS program, Klaus Haupt Head of Unit UNIT P10 – Tempus & Bilateral Cooperation with Industrialised Countries EDUCATION, AUDIOVISUAL & CULTURE EXECUTIVE AGENCY Expert/Evaluator Included in the list of Experts/Evaluators till 2013

■ **November 2011 - Today**

Athens - Greece Hellenic Ministry of Education Lifelong Learning and Religious Affairs – General Secretariat for Research and Technology (GSRT). Contact Person: Mr. Amaxidis Yorgos, Sub-Action Officer EYSED-ETAK. *I have been appointed to evaluate a proposals regarding the formation of Spin-off companies from several universities with project budget more than 1.2 million Euros.*

■ **July 2010**

The Netherlands , Contact Person: Renuka Baldew. Netherlands Organisation for Scientific Research | Division Chemical & Physical Sciences. Programme secretary. *I have been appointed by the Dutch Technology Foundation STW to evaluate its project related to energy and agriculture greenhouses.*

TRAINING DIPLOMAS

1. 06 – 15 December 2012

Several seminars in the following subjects: Modern hydroponic greenhouses, Private and Public landscape design, Food safety management systems, GIS applications in Agriculture and Natural Resources Management

Biological Agriculture, Hellenic Society of Agricultural Engineers, Athens - Greece

2. February 2011

- Design, Installation and Energy Yield model for Solyndra 200 Series, Solar+Logic sa. And Boots on the Roof – Athens - Greece
3. **30 – 31 January 2008**
Electrical Power Supply for off-grid locations
SMA Solar Academy – Kassel - Germany
 4. **29 January 2008**
Communication of SMA products
SMA Solar Academy – Kassel - Germany
 5. **June 2007**
Power electronics for renewable energies
Ostbayerisches Technologie Transfer Institute (OTTI), Freiburg – Germany
 6. **April 2007**
Membrane Fouling and Pre treatment
European Desalination Society (EDS), Halkidiki, Greece
 7. **June 2005**
Renewable energy systems - Photovoltaic systems
Hellenic Ministry Of National Education
 8. **June 2004**
Renewable energy systems – Wind Turbines and Wind parks Systems
Hellenic Ministry Of National Education
 9. **March 2001**
Wind Energy Technology – Wind Energy Applications
Technological Educational Institute of Crete, Crete – Greece
 10. **January 1998**
Automatic Irrigation systems
The Institute of Agricultural Sciences (IAS) – Athens - Greece
 11. **July 1998**
Floriculture, Gardening and Automatic Irrigation Systems, a training for professionals
The Institute of Agricultural Sciences (IAS)
 12. **October 1993**
Data Base III Plus
European Center For Systems, Cairo - Egypt

LANGUAGES

- Arabic Mother tongue
- Greek (the Greek Ministry of Education and Religious Affairs – Level C2 – Excellent knowledge)
- Greek (the Greek Ministry of Education and Religious Affairs – Level A2 – Basic knowledge) – this level contains Greek history and civilization

- Greek: (Certificate of Completion of studies in Modern Greek Language form the department of Modern Greek Language, Athens University, Faculty of Philosophy.
- English: Certificate in English (University of Cambridge)

COMPUTER SKILLS

- Most Microsoft Windows and office software
- Fortran
- TRNSYS
- European Computer Driving License, AutoCad – ECDL CAD
- Solyndra energy Yield Model
- HOMER
- RETSCREEN
- PVsyst
- STATISTICA
- STATISTICA Neural Networks
- Several software packages for the design and simulation of water pumping, desalination and renewable energies.

EXTRACURRICULAR ACTIVITIES

- “ISES Solar World Congress”, Johannesburg, South Africa - 2009.
- “24th European photovoltaic conference”, Hamburg, Germany – 2009.
- “International Conference and Exhibition Renewable Energy BEXCO & Nurimaru” Busan, Korea – 2008.
- “International Conference - Desalination and the environment” Halkidiki-Greece, 2007.
- “3rd International Conference on Solar Radiation and Day Lighting SOLARIS” New Delhi-India, 2007.
- “Great Wall Renewable Energy Forum” China – 2006.
- “Renewable Energy Conference” Japan – 2006.
- “Global Conference on Renewable Energy Approaches for Desert Regions GCREADER”, Amman-Jordan – 2006.
- “International Conference of Desalination and the environment”, Santa Margherita-Portofino La Spezia-Italy – 2005.
- “CIGER International Conference,.”, Beijing – China – 2004.
- “International Conference in Agricultural Engineering AgEng 2004 ' Engineering the future””, Leuven – Belgium – 2004.
- Volunteer participation in the Athens Olympic and Paralympic Games, Athens – 2004.
- “19th European Photovoltaic Solar Energy Conference and Exhibition”, Paris – France – 2004.

- “2nd European PV-Hybrid and Mini-Grid Conference”, Kassel – Germany – 2003.
- “Renewable Energy Sources for Islands Tourism and Water Desalination”, Crete – Greece, 2003.
- “3rd European PV-Hybrid and Mini-Grid Conference.” Kassel – Germany – 2003.

INTERESTS

- Reading
- Sports in general
- Music
- Voluntary work

OTHERS

- Car & motorcycle driving license (2006)