Curriculum Vitae

Dr. Ahmad Saleh

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Personal Data :
Date of Birth: 1957
Nationality: Jordanian
Languages: Arabic, English & Italian
Academic Rank: Associate Professor in Mechanical Engineering

Education:
- PhD in Mechanical Engineering (Solar Energy) from Milan Polytechnic University
  - Year: 1997
  - Thesis Title: Utilization of solar energy for cold production in Jordan
- BSc in Mechanical Engineering (Thermal Power) from University of Studies of Genoa (Italy)
  - Year: 1986
  - Graduation: Excellent 103/110
  - Thesis Title: High Velocity Air Conditioning Systems

Experience:
From Oct 2000 - Now
- Associate Professor, Philadelphia University, Mechanical Engineering Department: Nov 2009
- Head of Mechanical and Mechatronics Engineering Department: Sep 2001–Aug 2002
- Head of Mechanical Engineering Department: Sep 2005 – Aug 2007
- Head of Mechatronics Engineering Department: Sep 2008 – now
From Dec 1999 - Jul 2000
- Tutor for undergraduate students at Milan (Italy)
From Aug 1999 - Nov 1999
- Joined UNRWA as a Dean of Wadi El-Sair College
From Oct 1998 - Jan 1999
- Lecturer in Mechanical Engineering Department of Philadelphia University (Part Time).
From Jul 1997 - Aug 1998
- General Manager of an Italian trading company, C.U.T.S. srl
From Feb 1993 - Jul 1997
- PhD graduate student in Energy at Milan Polytechnic University
From Feb 1992 – Jan 1994
- Tutor with an Italian technical institute at Milan – Italy: Labor Institute
From Jan 1990 – Oct 1991
- Joined Jordan Ceramic Industries and Zarka Municipality as maintenance engineer
From Sep 1987 – Nov 1989
- Joined Electromechanical Company (EMI), Engineering Services Department (First Class Construction Company)
From Jan 1987 – Sep 1987
- Joined Bright Star Company (Second Class Construction Company)
From Jan 1978 – Dec 1986
- Mechanical Engineering student at University of Studies in Genoa (Italy)

**Teaching Experience (Lecturer for the following courses):**

- Thermodynamics I
- Thermodynamics II
- Internal Combustion Engines
- Automobile Essentials
- Air Conditioning I
- Air Conditioning II
- Fuels and Combustion
- Machine design I
- Machine design II
- Solar Energy
- Fluid mechanics
- Fluid Power
- Thermal-fluid
- Design of Thermal Systems
- Engineering Mathematics I
- Engineering Mathematics II
- Special Topics in Mechanical Engineering

**Publications:**

1- A. Saleh and M. A. Al-Nimr, “A Modified Air Jet Refrigeration System”, Int. J. Heat Technol., 2006, 25(2), 23-27, ISSN: 0392-8764.
2- A. Saleh and A. Badran, “A Solar Still Augmented with a Flat-plate Collector and a Reflector”, Proceedings of GCREADER, 2006, 120-128, Amman.
3- A. Saleh and A. Badran, “Solar Cooker Utilizing Satellite Dish Technology”, Proceedings of GCREADER, 2006, 615-620, Amman.
4- A. Saleh and M. A. Al-Nimr, “Evaporative System for Water and Beverage Refrigeration in Hot Countries”, Journal of Power and Energy – Part A, 2007, 221 No A8, 1099-1105, ISSN: 0957-6509.
5- A. Saleh and M. A. Al-Nimr, “Variational Formulation of Hyperbolic Heat Conduction Problems Applying Laplace Transform Technique”, International Communications in Heat and Mass Transfer, 2008, 35 (2), 204-214. ISSN: 0735-1933.
6- A. Saleh and M. A. Al-Nimr, “The Effectiveness of Multi-Stage Dehumidification-humidification for Improving the Cooling Ability of Evaporative Air Conditioning”, Proc. IMechE, Part A: J. Power and Energy, 2009, 223(A1), 11-20, ISSN: 0957-6509.
7- A. Saleh and I. Badran, "Modeling and Experimental Studies on a Domestic Solar Dryer", Renewable Energy, ISSN: 0960-1481, (Accepted for Publication at March 2009), DOI: 10.1016/j.renene.2009.03.001.

**Papers under preparation**

1- Performance investigation of a salt gradient solar pond for desalination purposes near the Dead Sea in Jordan
2- Experimental studies to improve the performance of a box solar cooker
3- Influence of low iron glass in increasing the performance of a solar desalination still
4- Modeling and Experimental Studies on an Evaporative System for Water and Beverage Refrigeration in Hot Countries
Conferences, Symposiums, Seminars & Workshops:

- General chair of The Seventh Jordanian International Mechanical Engineering Conference JIMEC7: 9/2009 - now
- Member of Organizing and scientific Committees of the conference GCREADER 2006
- Member of Organizing Committee and Treasurer of the conference JIMEC’6
- Member of Organizing and Reception Committees of the conference GCREADER 2009
- Participation in the scientific day organized by JEA about solar energy at 20/2/2007 with a paper entitled "Solar Cooling"
- Reviewer for many international conferences such as GCREADER 2006, JIMEC’6, and GCREADER 2009 and for many journals
- Participation in the workshop organized by Higher Council for Science and Technology (HCST) at 18/6/2008 entitled "Thematic Foresight on Solar Energy in Jordan"
- Participation in the workshop organized by Higher Council for Science and Technology (HCST) at 25/10/2008 entitled "Building Envelop Energy Efficiency Technology Cooperation"
- Participation in the First Middle East Organizational Maturity Conference organized by Organizational maturity at 24/11/2008
- Participation in the 13th scientific week organized by Higher Council for Science and Technology (HCST), 11/2007
- Participation in the 24th Engineering Conference organized by Federation of Arab Engineers and JEA, 14-16/5/2007
- Participation in the monthly Seminars "Building Energy Saving" organized by Energy Saving and Nature Sustainability Society
- Organizing a scientific day in Mechanical Engineering Department (Philadelphia University) in collaboration with Arab Group Company about "Solar collectors" and "Under floor heating", 11/8/2008

Training Activity

- FLUENT introductory Course with GAMBIT, Philadelphia University, 4-7/9/2004
- Basic training in modeling of building window door system organized by HCST, 26-27/10/2008
- Design of solar collectors course organized by National Energy Research Center, 30/6-3/7/2005
- ICDL course at Philadelphia University: 2006
- MATLAB training course at Philadelphia University: 2006
- MECHANICAL DESKTOP training course at Philadelphia University: 2006
- A training coarse entitled "Saving fuel consumption by IC engines": 1991

Cultural, Intellectual and Academic activities

- Head of Mechanical and Mechatronics Engineering Department, 9/2001-8/2002
- Head of Mechanical Engineering Department, 9/2005-8/2007
- Head of Mechatronics Engineering Department, 9/2008 – now
- Design and building of prototypes of many systems at Philadelphia University: solar distillation stills, satellite dish solar cooker, box solar cookers, evaporative refrigerator, solar dryer, biodiesel production device
- One founder of Mechatronics Engineering Department at Philadelphia University
- One founder and member of Global Network for Renewable Energy Approaches in
Desert Regions – GNREADER
- Dean of Wadi Al-Sir College (UNRWA), 8/1999-11/1999
- Reviewer for the national award of best book (Philadelphia University)
- Reviewer for Abdul Hameed Shoman Award for Young Arab Researchers
- Reviewer for the national award of best invention (Philadelphia University)
- Reviewer of one Master thesis: 8/2009
- Reviewer for many projects presented to the incubators of the Jordan Innovation Center (Philadelphia University)
- Chairman of student regulation committee for four academic years at Engineering Faculty (Philadelphia university)
- Chairman of student training committee at Engineering Faculty (Philadelphia university): 9/2009 – now
- Member of many committees at Engineering Faculty (Philadelphia University) such as scientific committee, study plan committee, quality assurance committee, and best invention committee
- Participation in preparation of laboratories in Mechanical Engineering department (Philadelphia University)
- Supervision of maintenance program for laboratory equipment in Mechanical Engineering department (Philadelphia University)
- Coordinator between Philadelphia University and JEA: 2008 - now
- Member of the JEA council (Zarka branch), 1990-1992
- Member of Faculty Council, 2005-Now
- Member of JEA since 1987
- Supervision of more than 25 graduation projects for BSc students
- Coordinator for Exam of Achievement in Mechanical Engineering department (Philadelphia University)

Awards & Merits:
- Certificate of appreciation for membership at council of Zarka branch of JEA.
- Certificate of appreciation for the participation of the scientific day of solar energy organized by JEA
- Certificate of appreciation and emblem for the participation in the organization of JIMEC’6

Professional Affiliation
- One founder and member of Global Network for Renewable Energy Approaches in Desert Regions – GNREADER
- Member of JEA since 1987