

CURRICULUM VITAE

1- Personal Data

Name: Ibrahim Mohamed Ismail
Birth Date: 19 - 1 - 1950
Title: Professor, Dean of Faculty of Engineering
Assiut University.
Affiliation: Prof. in Mech. Eng. Dept., Faculty of Engineering
Assiut University, Egypt.
Marital Status: married (3 boys and a girl)
Major Specialty: Mechanical Engineering
Minor Specialty: Refrigeration and Air Conditioning
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2- Qualifications

Ph.D. “Doctor Engineer: in Heat Pumps from Higher Nat.
School of Mines. Paris, France Nov. 1983.
M.Sc. in “Desalination of sea water” from Mech. Eng. Dept.,
Faculty. of Eng., Assiut University, Nov. 1976.
B.Sc. in Mech. Eng. Power Section, from Faculty. of Eng.,
Assiut University, June, 1973.

3-Working Experience

1973-1979 Instructor and lecturer Assistant of thermodynamics,
heat laboratory, theory of machines, power plants and
engineering drawing.
1979-1983 Research Associated in heat pumps and solar refriger-
ation in Lab. of Thermodynamics, Univ. of Paris 11,
(Ph.D thesis preparation) Paris, France.
1984-1989 Assist. Prof. of Thermal Engineering in Mech. Eng.
Dept. Faculty. of Eng., Assiut University.
1989-1995 Associate Prof. in Thermal Engineering in Mech. Eng.
Dept, Assiut University.
1990-1994 On Leave as a Course Director of Ref. & Air Cond-
itioning specialty in Jubail Industrial College, Royal
Commission , Saudi Arabia.
1995-till now Professor in Mech. Eng. Dept. Assiut Univ.
1/8/2005 Vice Dean for higher studies and research
1/8/2006- Now Dean of the faculty of Engineering- Assiut University

4 - Teaching

Undergraduate students: Thermal Engineering subjects such as
Thermodynamics, Refrigeration Fundamentals, HVAC Fundamentals, Heat
Exchangers, Steam Power Generation Plants, Industrial Ventilation
Graduates: Refrigeration & Air Conditioning, Energy Conservation.

5 -College Programs:

Preparation the outline of the program of air conditioning and refrigeration for two years Diploma degree, Supervising the installation and commissioning of laboratories of Thermodynamics, Fluid Mechanics and Refrigeration & Air Conditioning.

6 -Training Programs:

Participating in training programs for Engineers and technicians in industries in some of the above subjects such as Heat Exchangers and Industrial Ventilation. As a member of the College Engineering Consultation Office, I participated in preparation of the technical specification and supervising some projects such as large cold store, chicken Slaughter house, blast Freeze and cold store. Preparing specifications and examining the hardware of many equipment demanded by some Faculties in Assiut University.

7 - Secretary of the 10th Int. Conf. on Mech. Power Engineering, held in Assiut University, 16-18 Dec. 1997 and co-editor of the Proceedings.

8- Member in the Sub-committee of Self-Studies/The National Committee for Quality Assurance and Accreditation.

9- Principal Investigator of the project for the implementation of internal quality assurance system in the Faculty of Engineering Assiut University.Participation as a coordinator in the

10- Preparatory Workshop on 14 Jan. 2004 organized by NCQAA guided by two experts from UK Quality Assurance Agency

11- Trainer in the FLDC, Assiut University

12 – حضر عدة دورات تدريبية نظمها مركز تنمية قدرات اعضاء هيئة التدريس والهيئة القومية لضمان جودة التعليم مثل)

(TOT) ، مراجع خارجي، معايير الاعتماد ، التخطيط الاستراتيجي، معايير (ABET) لاعتماد البرامج الهندسية.

13- قام بتقييم مشروعات التطوير لبعض الكليات المتقدمة ل (QAAP2)

14- قام بزيارات ميدانية لبعض الكليات للمتابعة او في نهاية مشروع التطوير.

15 – قام بزيارات متابعة لتقييم اداء البرامج الجديدة في بعض الكليات.

16 - Participation in Meetings and Conferences

Participated in more than 22 international conferences in Egypt or abroad.

- 1 - 1st Int. Conf. for Mech. Power Engineering, Cairo, Egypt, 1977.
- 2 - ISES Conf. “ Solar Technology in the Eighties “ Brighton, UK, 1981.
- 3 - 16th Int. Congress of Refrigeration , Paris, France, 1983.
- 4 - 5th Int. Conf. for Mech. Power Engineering, Cairo, Egypt, 1984.
- 5 - First International Alternative Energy Sources and Technology Conf. , Elmansoura, Egypt, 1985.
- 6 - 1st Int. Symposium on Application of Solar and Renewable Energy, Cairo, Egypt, 1986.
- 7 - 6th Int. Conf. for Mech. Power Engineering, Cairo, Egypt, 1986.
- 8 - Colloque International sur la Science des Matériaux pour l'énergie, ICTP, Trieste, Italy, Sept., 1986.

- 9 - 2nd Minia Conf.on Energy and Its applications, Minia, Egypt, 1988.
- 10- Cairo Int. Symposium on Renewable Energy Sources, Cairo Egypt, 1988.
- 11- Int. Conf. on Refrigeration and air Conditioning, Amman, Jordan, 1988.
- 12- Workshop for Planning of Network Projects in Material Science and Solar Energy, Nairobi, Kenya, Nov. 1988.
- 13- Int. Conf. on Advances in Energy Development and Environment, Cairo, Egypt, 1994.
- 14- First Jordanian Mechanical Engineering Conference, Amman, Jordan, 1995.
- 15 -Int. Thermal Energy and Environment Congress, ITEEC 97, Marrakesh, Morocco, June, 1997.
- 16 - IDA World Congress on Desalination and Water Reuse" San Diego, California, Aug. 29 to Sept. 3, 1999.
- 17 - Arab-African Conference for Refrigeration and Air Conditioning, Cairo Egypt April-May, 2001.
- 18 - The 12th International Mechanical Power Engineering Conference IMPEC 12, Mansoura, Oct.- Nov. 2001.
- 19 - Second World Conference on Technology Advances for Sustainable Development and Renewable Energy Workshop, Cairo, Egypt, March 11-14, 2002.
- 20- 15th Int. Congress of Chemical and Process Engineering, Chisa 2002, Praha, Czech Republic, 25-29 August 2002

9 -Publications

- 1 - Ismail, I.M., M.G. Morsy & A.A. Abdellatif " A Computer Program for the Design of Multi-stage Flash Desalination Plants" Int. Conf. on Statistics and Computer Science & Social Research - 1976 Cairo Egypt
- 2 - Ismail, I.M., M.G. Morsy & A.A. Abdellatif " A Study of the Effects of the Main Process Variables and Working Disturbances on the Design and Operation of Multi-stage Flash Desalination Plants" Proceedings of First Conf. of Mech. Power Engineering, Vol.1, 1977, Cairo - Egypt.
- 3 - Ismail, I.M. " A Study of a Desalination Unit by Freezing Adapted to Adsorption Cycle" ISES Conf., pp 1092 Vol.2, 1981, Brighton , UK.
- 4 - Delgado R., A. Choisier, P.Grenier, I.M. Ismail, F.Meunier & M. Pons "Etude du Cycle Intermittent Charbon Actif-Methanol en vue de la realization d'une machine a fabriquer de la glace fonctionnant a l'energie solaire" Ed.IIR, pp 181-187, 1982.
- 5 - Ismail, I.M., F. Meunier, B. Brandon & Merigoux " Pompe a chaleur Chimique Utilisant le Cycle Utilisant le cycle Pseudo - Continu Zeolithe - Water: Resultats Experimentaux et Simulation Numerique" 16 eme Congres Int. Du Froid Commission B1 pp. 176, 1983, Paris, France.
- 6 - Grenier, P., J.J. Guilleminot, I. Ismail, M. Pons " Etude Comparative du cycle Intermittent Utilisant soit le Couple Zeolithe -eau Soit le Couple Charbon Actif - Methanol" 16 eme Congres Int. du Froid Commission B1, pp.47 , 1983.
- 7 - Ismail, I.M. " A Study of a Small Simple Desalination Unit By Freezing Adapted to Adsorption Cycle " 5th Int. Conf. for Mech. Power Eng. 19, 1984, Cairo, Egypt.
- 8 - Ismail, I.M., M. Karagiorgas, F. Meunier & J. Rios " Adsorption Heat Pump Using the Zeolithe Water Pair for Management for Heat" Energy Economics & Management In Industry, pp.557-562 Vol.2 Pergamon Press, 1985.
- 9 - Ismail, I.M. & H.M. Shafey " Thermodynamic Analysis of a Salt Gradient Stabilized Solar Pond" 1st Int. Alternative Energy Sources & Technology Conf. pp. 185, 1985, El Mansoura , Egypt.
- 10-Shafey,H.M., A. Kh. Mahmoud, M.G. Morsy & I.M. Ismail " Performance of Small Scale Solar Pond in Egypt " 1st Int Symposium on Application of Solar and Renewable Energy ASRE 86), Cairo, 1986.
- 11-Ismail, I.M. " The Use of Waste Energy in Some Industries for the Production of Distilled Water " 6th Conf. for Mech. Power Engineering Vol.1, I4, 1986.
- 12-Ismail, I.M. "Conservation de l'energie" Colloque Int. sur la Science Des Materiaux Pour L'energie" Aug.-Sept. 1986, Trieste, Italy.

- 13-Ismail, I.M. "Upgrading of Waste Heat Through Cascade Adsorption Heat Pumps" 2nd Minia Conf. on Energy and Its Applications, Jan. 1988, Minia, Egypt.
- 14-Ismail, I.M., M.M. Abdelghany & M.H. Saadawi "Design of Closed Cooling Cycle for Engines in Heat Laboratory" 2nd Minia Conf. on Energy and Its Application Jan., 1988, Minia, Egypt.
- 15-Abdelghany, M.M. and I.M. Ismail "Simulation of Industrial Waste Heat Recovery Storage System" Cairo Int. Symposium on Renewable Energy Sources, June 1988, Cairo, Egypt.
- 16-Shafey, H.M. A. K. Mahmoud, I.M. Ismail & M.G. Morsy "Performance of Covered Small Scale Solar Pond with a Planar Reflector" Cairo Int. Symposium on Renewable Energy Sources, June 1988, Cairo, Egypt.
- 17-Ismail, I.M. "Optimum Arrangement of Absorption Heat Pumps for Upgrading of Waste Heat" Int. Conf. on Refrigeration and Air Conditioning , Oct. 1988, Amman, Jordan.
- 18-Shafey, H.M. & I.M. Ismail "Thermodynamics of the Conversion of Solar Radiation" The Winter Annual Meeting of ASME, AES, Vol.6, pp.57-63, Nov. 1988, Chicago, USA.
- 19-Ismail, I.M. & K.G. Mahmoud "Comparative Study of Different Air Conditioning Systems Incorporating Air Washers" Int. J. Ref., 1994, Vol.17 No.6.
- 20-Abdelghany, M.M., I.M. Ismail and I.S. Taha "Analysis and Comparison of the Performance of Overground and Underground Thermally Stratified Storage Tanks" Bulletin of Fac. of Eng. Assiut Univ. Vol. 22, July 1994, Part 2., Egypt.
- 21-Ismail, I.M. "Integration of Absorption Heat Pumps In Heat Recovery Systems" Tech. J. of Jubail Industrial College, Vol.1, Jan. 1994, Saudi Arabia.
- 22-I.M. Ismail "Energy Conservation in Air Conditioning Systems by Using Storage Tanks" Bulletin of the Faculty of Eng., Assiut Univ. Vol.22, Jan. 1994, Egypt.
- 23-A.H. Ali, I.M.S. Taha & I.M. Ismail "Cooling of Water Flowing Through a Night Sky Radiator" Proceedings of the 19th National Passive Solar Conf., June, 1994, San Jose, California, USA.
- 24-I.M. Ismail "Humidification -Dehumidification Plant for the Production of Fresh Water" Proceedings of the First Jordanian Mechanical Engineering Conference , June, 1995, Amman, Jordan.
- 25-I.M. Ismail "Parametric Study of a System of One and Two Heat Transformers" Bulletin of the Faculty of Engineering, Assiut University, Vol.23, Part 2, July 1995.
- 26-I.M. Ismail "Comparative Study of the Dynamic Behaviour of Vapour Compression System" Bulletin of the Faculty of Engineering , Assiut university, Vol.23, Part 2, 1995.
- 27-I.M. Ismail "Upgrading of Heat Through Absorption Heat Transformer" Int. J. Ref. Vol.18, No.7, pp.439-446, 1995.
- 28 -I. M. Ismail "Parametric Study of a Double -Lift Heat Transformer" Proceedings of the Int. Thermal Energy and Environment Congress, ITEEC 97, Marrakesh, Morocco, June, 1997.
- 29 -A. Hamza H. Ali, H. Saito, I.M.S. Taha and I. M. Ismail "Cooling of Water by Nocturnal Radiation in a Closed Loop Forced Circulation System" Proceeding of The 35th Meeting of JSME Hokkaido, Japan, Sept., 1995.
- 30 -Ahmed Hamza H.Ali, H. Saito, I.M.S.Taha and I.M. Ismail "Experimental Study on Effect of the Meteorological Condition on the Performance of Nocturnal Cooling of water in Open Loop System" Proceedings of the 6th Int. Energy Conf. and Exhibition, Beijing, China, June, 1996.
- 31 -Ahmed Hamza H. Ali, K. Kishinami, I.S. Taha, I.M. Ismail and J.Suzuki "Comparison Between Nocturnal Cooling of water in a Closed Loop Forced Circulation and Open Loop Systems" J. of Japan Solar Energy Society Vol.23, No.5, pp. 64-69, 1997.
- 32-Ahmed Hamza H. Ali, H. Saito, I.M.S. Taha and I.M. Ismail "Effect of Aging, Thickness and Color on Both the Radiative Properties of Polyethylene Films and Performance of the Nocturnal Cooling Unit." Int. J. Energy Conversion and Management, Vol. 39, No.1/2, pp.87-94,1998.
- 33 - Ibrahim M.Ismail and Kassim K. Matrawy "Performance of Air Humidification- Dehumidification Unit for Fresh Water Production" IDA World Congress on Desalination and Water Reuse" San Diego, California, Aug. 29 to Sept. 3, 1999.

- 34- Matrawy K.K. and I.M. Ismail "Modeling of a Solar Ambient Air Humidifier " Bulltin of the Faculty of Engineering , Assiut university, Vol.28, Part 3, 2000.
- 35-K.K.Matrawy and I.M.Ismail "Component Sizing of Small Scall Humidification -Dehumidification Unit" Bulltin of the Faculty of Engineering , Assiut university, Vol.29, Part 3, 2001.
- 36 - Khalil, A and I.M.Ismail " Experimental Study of Thermal Energy Storage in Backed Beds" The 12th International Mechanical Power Engineering Conference IMPEC 12, Mansoura, Oct.- Nov. 2001.
- 37 - Matrawy, K.K. and Ismail I.M. " Natural Ventilation Using a Solar Chimney" The 12th International Mechanical Power Engineering Conference IMPEC 12, Mansoura, Oct.- Nov. 2001.
- 38 - M.S.Ahmed, M.G.Morsy, I.M.S. Taha and I.M.Ismail " Potential of Activated Alumina Extracted From Aluminium Dross Tailings As A Desiccant For Air Conditioning Applications" 2nd World Conference on Technology Advances for Sustainable Development and Renewable Energy Workshop, Cairo, Egypt, March 11-14, 2002.
- 39 - I. M. Ismail and H. A. Mohamed " Comparative Study of Solar Air Humidification-Dehumidification Unit" Proceeding of the 15th Int. Congress of Chemical and Process Engineering, CHISA 2002, Prague, Czech Republic, Aug. 2002.
- 40- Mahmoud S. Ahmed, Mahmoud G. Morsy, Ibrahim M. S. Taha and Ibrahim Ismail " Experimental Study of Aluminaz as Desiccant for Air Conditioning Applications" Proceedings of the 8th Int. Conf. On Energy and Environment, Jan. 2003.
- 41- M.A. Mahran, I.S. Taha , M.m. Abdeghany and I.M. Ismail " Theoretical Study of the performances of Underground and overground Tanks in Seasonal Storage of Thermal Energy" Journal of Engineering Sciences, Assiut University, Vol 32 – No. 3 -pp 1211-1231, July 2004..
- 42- M.A. Mahran, I.S. Taha , M.m. Abdeghany and I.M. Ismail " Comparative Study of the Performances of Undergroud and Overground Tanks in Seasonal Storage of thermal Energy" Journal of Engineering Sciences, Assiut University, Vol 32 – No. 2-pp 785-803, April, 2004.
- 43- M.S. Ahmed, I.M. S.Taha, M.G. Morsyand I.M.Ismail " Desiccant Air Conditioning System for Egyptalum Rolling Factory" third Int. Conf. On Energy & Development
- 44- I.M.S. Taha, M.G. Morsy, I.M. Ismail and M.S. Ahmed " Proposed Desiccant Air Conditioning System A Case Study Adoption to Cool Egyptalum Rolling Factory"
- 45- A.H.H. Ali & I.M.Ismail " Effect of the Evaporator Airside Fouling on Performance of Unitary Air Conditioners and its Impact on Indoor Air Quality" 3rd Int. Conf. On Thermal Eng. and Energy, Amman –Jordan May 2007.