

CURRICULUM VITAE



1- Personal Details

Name : Iskander Tlili
Date of Birth : June 04, 1976
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Major Area of specialization: Energy Engineering, Mechanical power

2- Education & Qualifications

Year	Degree	University name	Country	Title of the Dissertation
2010	PhD	Engineering School of Monastir	TUNISIA	“Studies, modeling and design of Stirling engines for solar application”
2002	M.Eng	Engineering School of Monastir	TUNISIA	“ Flow and Thermal modelling of stirling engine”
2000	B.Eng	Engineering School of Monastir	TUNISIA	“ Condensation and evaporation of a liquid film flowing in a channel by natural convection gas flow”

3. Academic Experiences:

Period	Job Title	Place	Country
February 2011 till now	Assistant Professor	Mechanical Engineering Department - college of engineering, Majmaah University.	Saudi Arabia
Sept2009- June2010	Lecturer	Mechanical department, HVAC specialty - technical college - Sur -	Sultanate of Oman.
2003 till now	Researcher	Energy and Thermal Systems Laboratory, engineering school of Monastir	Tunisia

A. Undergraduate Courses Taught

- ✓ Thermodynamics
- ✓ Energy Conversion
- ✓ HVAC systems
- ✓ Fluid Mechanics
- ✓ Heat Transfer
- ✓ Thermal machines
- ✓ Introduction to cogeneration and desalination
- ✓ Introduction to engineering safety

4. Professional Activities:

Period	Job Title	Place	Country
2002-2005	Principle Engineer	Ministry of Infrastructure and environment- maritime department; Tunis.	Tunisia
2000-2002	Engineer	Mechanical engineering department for HVAC systems; Mahdia.	Tunisia

5- Areas of research

- ✓ Modelling and design of Stirling engine for solar application.
- ✓ Theoretical and experimental study of solar desalination unit.
- ✓ Energetic and exergetic analysis of Stirling and Ericsson cycle.
- ✓ Optimization and modeling of thermal exchanger.
- ✓ Cogeneration systems.

6- Languages

- ✓ English - Very Good written and spoken.
- ✓ French - Very Good written and spoken.
- ✓ Arabic - (mother tongue).

7- Publications

❖ International journals:

- ✓ Tlili I. 'Finite time thermodynamic evaluation of endoreversible Stirling heat engine at maximum power conditions' **Renewable and Sustainable Energy Reviews**, Volume 16, Issue 4, May 2012, Pages 2234-2241.
- ✓ Tlili I. "Numerical Model for Predicting Thermodynamic Cycle and Thermal efficiency of an Alpha-type Stirling engine with Ross Yoke mechanism" Journal: **Science Academy Transactions on Renewable Energy Systems Engineering and Technology (SATRESET)** Vol. 1, No. 3, September 2011, ISSN: 2046-6404.
- ✓ Tlili I. 'A numerical investigation of an alpha Stirling engine' accepted in **International Journal of Heat & Technology**
- ✓ Tlili I. 'Thermodynamic Study On Optimal Solar Stirling Engine Cycle Taking Into Account The Irreversibilities Effects' **Energy Procedia**, Volume 14, 2012, Pages 584-59.
- ✓ I Tlili, Y Timoumi, S B Nasrallah: "Analysis and design consideration of mean temperature differential Stirling engine for solar application " **Renewable Energy** 33 (2008) 1911–1921.
- ✓ Y Timoumi, I Tlili, S B Nasrallah: "Performance optimization of Stirling engines" **Renewable Energy** 33 (2008) 2134–2144
- ✓ Y Timoumi, I Tlili, S B Nasrallah: "Design and performance optimization of GPU-3 Stirling engines" **Energy** 33 (2008) 1100–1114
- ✓ I Tlili, Y Timoumi, and S B Nasrallah: "Thermodynamic analysis of the Stirling heat engine with regenerative losses and internal irreversibilities" **Int. J. Engine Research**. Vol. 9, pp 45-56, 2007
- ✓ Y Timoumi, I Tlili and S B Nasrallah: "Reduction of energy losses in a Stirling engine" **Heat and technology** Vol, 25, n. 1, pp 84-93, 2007
- ✓ I Tlili, Y Timoumi, and S B Nasrallah: "Numerical simulation and losses in a Stirling engine" **Heat and Technology** Vol.24,n. 1, pp.97-105, 2006.

❖ **International seminars workshops and congress:**

- ✓ Tlili I. ‘Climate change management based on remote sensing: optimization of solar energy resources’ 21st United Nations/International Astronautical Federation Workshop on “Space for Human and Environmental Security” that held from 30 September to 2 October 2011 in Cape Town, South Africa.
- ✓ International Symposium on Renewable Energy 04 - May 05, 2007 Oujda, Morocco, publication in the conference proceeding " Cogeneration technology: Case of Stirling engine."
- ✓ Thermal French Congress, SFT 2006, Île de Ré, 16-19 May 2006 publication in the conference proceeding of the article entitled "Study of heat loss and performance optimisation of Stirling engines."
- ✓ International Congress on Renewable Energy and the Environment, March 24-26, 2005, Sousse, Tunisia. Publication in the congress Proceeding of an article entitled "Study of Stirling engines with solar energy."
- ✓ International Congress on Renewable Energy and the Environment CERE 2006, November 6-8, Mahdia, Tunisia. Publication in the congress Proceeding of an article entitled "Thermodynamic conversion of solar energy in the Low or Medium power installation by Stirling engine."
- ✓ International Stirling engine conference ISEC 2007, 23-26 September 2007, Waseda University, Tokyo, JAPAN. Publication in the conference proceeding of the article entitled "Analysis and design consideration of mean temperature differential Stirling engine for solar application."
- ✓ 13th International Workshop about Thermal in France, Albi, from 28 to 30 August 2007. Publication in the Proceeding of the article entitled " Assessment of heat transfer capacity with oscillating flow in ecological machines: application to Stirling engine."
- ✓ Symposium" National days Coastal Engineering-Civil Engineering", Brest 12, 13 and 14 September 2006 in France including the publication of the article entitled’ Study and design of embankment dams taking into account the randomness of the wave’.

8- Honors distinction and awards

- ✓ Awarded a grant from International Astronautical Federation to present paper Workshop on “Space for Human and Environmental Security” that held from 30 September to 2 October 2011 in Cape Town, South Africa. Entitled ‘Climate change management based on remote sensing: optimization of solar energy resources’
- ✓ Awarded a grant from the Abdus Salam International Centre for Theoretical Physics, Italy – ICTP, in order to attend a Training course.
- ✓ Awarded a two month grant from the International ocean institute attending training course in hydraulic maritime in Malta on November 13 - December 16 2006.
- ✓ Awarded a scholarship from the European Commission to attend Seminars on sustainable development, management and evaluation of projects organized in Romania May 2007.
- ✓ Awarded a scholarship from Ministry of infrastructure and environment of Tunisia to participate in the workshop held in Austria from 11 to 14 September 2007 and whose topic is ' The space means for development projects ' a conference presentation titled 'Use of satellites for coastal management'
- ✓ Awarded a scholarship from the Ministry of infrastructure and environment of Tunisia to participate in the workshop on water management in the European countries in Italy held from 8 to 12 October 2007.

9- Useful links

- ✓ <http://mu.edu.sa>
- ✓ <http://www.sciencedirect.com/science/journal/09601481>
- ✓ <http://www.sciencedirect.com/science/journal/01968904>
- ✓ <http://www.springerlink.com/engineering>
- ✓ <http://www.cck.rnu.tn>