

Bertrand FANKAM TCHANCHE



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EDUCATION

- 2006-2010: Ph.D. in Energy & Environmental Eng., Agricultural University of Athens - Greece.
- 2002-2003: MSc. in Energy Systems and Industrial Refrigeration, International Institute for Water and Environmental Engineering – Burkina Faso.
- 1998-2000: MSc. in Physics, University of Yaoundé I – Cameroon
- 1994-1998: BSc. in Physics, University of Yaoundé I – Cameroon.

SCHOLARSHIPS

- 2005: Scholarship from the Greek Inter-state Scholarships Foundation (IKY).
- 2002: Scholarship from Service de Coopération et d'Action Culturelle de l'ambassade de France au Cameroun (SCAC).

PUBLICATIONS

Publications in International Journals

1. B.F. Tchanche, G. Papadakis, Gr. Lambrinos, A. Frangoudakis. *Fluid selection for a low-temperature solar organic Rankine cycle*, Applied Thermal Engineering 29 (2009) 2468-2476.
2. B.F. Tchanche, Gr. Lambrinos, A. Frangoudakis, G. Papadakis. *Exergy analysis of micro-organic Rankine power cycles for a small scale solar driven reverse osmosis desalination system*, Applied Energy, 87 (2010) 1295-1306.

Publications in International Conferences

1. B.F. Tchanche, S. Quoilin, S. Declaye, G. Papadakis & V. Lemort. *Economic Optimization of Small Scale Organic Rankine Cycles*, in Proc. of 23rd International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems (ECOS), June 14-17 2010, Lausanne - Switzerland.
2. B.F. Tchanche, S. Quoilin, S. Declaye, G. Papadakis & V. Lemort. *Economic Feasibility Study of a Small Scale Organic Rankine Cycle System in Waste Heat Recovery Application*, in Proc. of the ASME 2010 10th Biennial Conference on Engineering and Systems Design and Analysis (ESDA), July 12-14, 2010, Istanbul - Turkey.
3. 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.

WORK EXPERIENCE

RESEARCH

- 2009-2010: Scientific stay in the Thermodynamics Laboratory of the University of Liège - Belgium (6 months) – Carry out experimental and theoretical works on a prototype of organic Rankine cycle in waste heat recovery application.
- 2007-2008: Participation in HYRES (Hybrid Renewable Energy Systems for Supplying Services in Rural Settlements of Mediterranean Partner Countries) – Designing hybrid PV/Wind systems for electricity and water supply.

INDUSTRY

- June-Dec. 2003: Professional Training Period (GUINNESS CAMEROUN S.A., Douala – Cameroon) (6 months) – Realizing an energy audit for reducing the energy consumption ratio of the brewery (Analyse the electricity contract and bills; audit boilers & heating system, air compressors & pipes, Refrigeration plants).

TEACHING

- 1999-2005: Teacher in Technical High School Sangmelima – Cameroon (Physics and Chemistry).
- 2006- 2010: Teaching Thermodynamics, Heat Transfer & Renewable Energy Technologies (Photovoltaic Systems: stand alone & grid connected, Small wind, Biomass, Combined Heat & Power Systems, Solar Concentrating Power, Binary organic Rankine Systems) – Agricultural University of Athens (Undergraduate and Graduate).

TRAININGS, SEMINARS AND WORKSHOPS

- 5-12/10/2008: Eurosun Solar Energy Master Course, Lisbon-Portugal.
- 28/5/2008: ADIRA Workshop on “*Desalination Powered by Renewable Energy*”, Athens-Greece.
- 3-11/03/2008: International Course on “*Solar Thermal Cooling*”, Politecnico di Milano-ITALY.
- 9-18/10/ 2007: International course on “*Thermal stratification in solar heat storage tanks*”, DTU (Denmark Technical University), Lyngby-DENMARK.
- 26/03 –3/4/2007: International course on “*system Integration, Computational Thermal Engineering and Presentational Skills*”, Graz- AUSTRIA.
- 22/1 – 2/2/2007: International course on “*Dynamic Simulation and Cultural Context of Energy Systems*”, Borlange-SWEDEN.

LANGUAGES

- French (Excellent)
- English (very Good)
- Greek (Very Good)

COMPUTER SKILLS

- Microsoft Office (Excel, Word, PowerPoint, etc)
- EES (Engineering Equation Solver)
- TRNSYS (Transient Systems Simulation Program)

REFERENCES

(Will be supplied if requested)

OTHERS

- European driving license type B (2007)

HOBBIES

- Travels (Benin, Ghana, Belgium, France, Turkey, etc)
- Sports (Football, Tennis, Basketball)
- Music

OTHER ACTIVITIES

- 2007-today: Member of The Greek Forum of Migrants
- 2005-2008: Volunteer for community work: General Sec. (2005/2006) and President (2007/2008) of the Cameroon Community in Greece.