

Curriculum Vitae

Dhahri Amel

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Current position:

Research professor, Department of physics, Gafsa University-Faculty of Sciences

RESEARCH Interests

Solar chimneys, Modeling and simulation, heat and mass transfer, energy conversion, renewable energies.

ACADEMIC APPOINTEMENT

2011-2012: Assistant professor, Department of physics, Gafsa University-Faculty of Sciences

2010-2011: Assistant professor, Department of physics, Gafsa University-Faculty of Sciences

2009-2010: Assistant professor, Department of physics, Gafsa University-Faculty of Sciences

EDUCATION

2009-2012: PhD candidate in the Engineering National School of Gabes-Tunisia (ENIG)

Departement of Chemical Engineering

Thesis: " Study of a solar system for the energy exploitations".

2008-2009: Master degree in chemical engineering at the Engineering National School of Gabes-Tunisia (ENIG)

Master: " Improving energy performance of a DAP drying unit".

2008: Diploma of engineer from the Engineering National School of Gabes-Tunisia (ENIG)

Departement of Chemical Engineering

Final project study: " Improving separation performance of an ethanization section of the LPG unit ".

INVITED LECTURES AND PRESENTATIONS

2012

Participation in the sixth international congress on renewable energies and the environment in Hammamet-Tunisia (CERE 2012)

Title "CFD modeling of a solar chimney power plant".

2010

Participation in the 1st Maghrebian Conference on Materials and Energy in Gafsa-Tunisia (CMMEG 2010)

Title "energy Study of a solar chimney".

2009

Participation in the 1st International symposium of the control of energy and the applications of renewable energies in Gafsa-Tunisia (CIE'09)

Title "Improvement of the energy performances of a unit of drying of the DAP".

2008

Participation in the 15th National Days of the Chemical Company of Tunisia JNC15

Title "Optimization of the consumption of natural gas in a unit of drying DAP".

LANGAGES

ARAB: Mother tongue

French: Good (reading and writing)

English: Good (reading and writing)

TECHNICAL SKILLS AND COMPETENCES

Operating systems: Microsoft Windows®

Office software: Microsoft Office®, LaTeX

Programming languages: C, Fortran 90, Matlab, Pascal

Technical software: Aspen Plus, Aspen HTFS, Maple, Aspen B-Jac, Ansys FLUENT®, GAMBIT, AutoCAD®

Memberships

- Member of Research Unit: Materials, Energy and Renewable Energies, University of Gafsa, Sciences Faculty Tunisia.
- Member of the organization committee of the Maghrebian Conference on Materials and Energy in Gafsa-Tunisia (CMMEG 2010).
- Member of the review committee of The 5th International Power Engineering and Optimization Conference 2011, Malaysia (PEOCO2011).
- Member of the Programme committee (reviewer) of the 11th International Conference on Environment and Electrical Engineering, Italy (EEEIC 2012).
- Senior Member of the Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES).
- Member of the organization committee of the Maghrebian Conference on Materials and Energy in Gafsa-Tunisia (CMMEG 2012).
- Member of the Editorial board of The International Journal of Scientific and Technology Research (IJSTR).
- Peer-reviewer in the Global Journal of Science Frontier Research.
- Reviewer in the International Journal of Energy & Technology (IJET).
- Member of the Editorial board of the International Journal of Current Engineering and Technology.
- Member of the International Organization on Technical and Physical problems of engineering (IOTPE).
- Member of the scientific committee of 8th International Conference on Technical and Physical Problems of Power Engineering, Fredrikstad, Norway (ICTPE-2012).
- Member of the scientific committee of the International Journal on Technical and Physical Problems of Power Engineering (IJTPE).
- Member of the editorial team of the International journal of Renewable energy development (IJRED).
- Member of the editorial board of Journal of Basic and Applied Physics (JBAP).
- Member of the editorial board of the Continental Journal of Renewable Energy.
- Reviewer for the World Scientific and Engineering Academy and Society (WSEAS).
- Reviewer for the ASME Journal of Heat Transfer (WSEAS).

Training and formation

July 2007: Training course engineer within the Chemical Group Tunisia, Factory of Medhilla-Gafsa.

July 2006: Working training course within the Tunisian Chemical Group, Factory of Medhilla-Gafsa.

2010: Obtaining the Certificate of control of the research tools and access to scientific documentation by the university Agency of Francophonie (AUF).

2012: Participation in the 14th day of the Science and Technologies of Image and Telecommunications Gabes-Tunisia (SETIT): LateX training Workshop.

2012: participation to the Second Workshop on Neural Networks for Signal Processing, Gafsa-Tunisia.

Fields of competence

- Design of : heat exchangers (tubular, aerocondensers), fractionating columns and the biphasic separators...
- Unit operations: Distillation, Extraction, Separation solid-gas, Absorption, Adsorption, Drying.
- Energy optimization of the industrial processes
- Simulation of the processes (thermo-transformer, refrigerating cycle, fractionating columns, heat exchangers)
- Industrial quality and standards.
- Modeling and simulation.