

CHAIBI M. Thameur, PhD

Director of Research

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Competences

Solar Thermal Processes, Renewable Energy Systems, Climate Technologies, Water Resources Engineering, Environment Management

Degree & Certification

Feb 2005 Habilitation (HDR) in Environmental Sciences, Rural Engineering and Natural Resources at the Institution for Agricultural Research and High Education, Tunis Tunisia

1997 - 2003 Doctor of philosophy (PhD) in the subject of Agriculture and Climate Technologies, the Swedish University of Agricultural Sciences (S.L.U), May 2003.

1996 – 1997: Master of Science in the subject of Agriculture Bio-systems and technologies, the Swedish University of Agricultural Sciences (S.L.U).

Sep-Dec 1992: Post Graduate Diploma in Environmental Management Program, Netherlands International Institute for Management (R.V.B).

1984 – 1987: Specialized engineer Diploma in Hydraulic and Rural Engineering, The National Institute of Agronomy in Tunis (I.N.A.T).

1980 – 1984: Engineer Diploma in Rural Development with honors High School of Rural Equipment in Tunisia.

Work experiences

August 2015_ Present GIZ Senior advisor for the Pan African University Institute of Water and Energy Sciences (including climate change)

Mai 2014 – July 205 Coordinator; Pan African University African Union Commission, Addis Abeba , Ethiopia

Jan 2011- Mai 2014: Head Department Rural Engineering; National Research institute for Rural Engineering, Water and Forestry

Responsibilities:

- (i) Monitoring the implementation of research programs in the domain of Rural Engineering focused mainly on water, soil and environment management

- (ii) Effective use of research funds available for the department including human and material resources from services provided to the economic and socio-cultural environment
- (iii) Coordination and leadership of the research activities undertaken by the research teams
- (iv) Reporting of annual self-assessment, midterm and final department activities,
- (v) Development of future design activities of the department and research programs

Other Cross-cutting Issues: (i) board member of the World Bank program on strengthening tertiary education in Africa through their support to select institutions to be emerged as centres of excellence in priority areas: science, technology, engineering and mathematics (STEM), agriculture, and health, (ii) Member of the Project Management Unit (PMU) for the African Union Commission program on establishing the Pan African University project, Lead coordinator of the curriculum module of the PAU Master Program at the Institute of Water and Energy including climate change at the University of Abu-Bakr Belkaid, Tlemcen, Algeria

2008 – Jan 2011: Expert in Science & Technology and Education (P5); Department Human Resources Science and Technology, African Union Commission, Addis Ababa, Ethiopia.

Responsibilities:

Science and Technology

- (i) Bridging the scientific divide, strengthening Africa S&T capacities, and enhancing the role of science and technology as key enablers for poverty reduction, growth and socio-economic development in the framework of the Africa-EU 8th Partnership on "Science, Information Society and Space".
- (ii) Implementation the first phase of the Partnership agreement (2008-2010) for the following early deliverable projects: African research grants & scientific awards; Water and food security in Africa; the African Global Monitoring for environment and security (Kopernicus-Africa);
- (iii) Capacity building in the AUC on Geospatial Sciences (project coordinator of the African side),
- (iv) Participating in development partners programs with the view to creating strategic partnerships aimed at pooling resources, information sharing and harmonisation of Africa's science and technology programs,
- (v) Formulating the Medium Term Plans and the biennial Programs of work in the field of Science and Technology, and in implementing the programs using both regular budget and extra-budgetary resources.
- (vi) Organise studies, seminars and conferences for African experts in the field of science and technology.

In the Field of Education: Project leader and focal point of the Pan African University Project (PAU):

- (i) Developing network of institutional links and policy mechanisms that promote the implementation and management of the PAU;
- (ii) Assisting with monitoring and follow up the implementation and management of the PAU commitments by the member states institutions ;
- (iii) Coordinating production of periodic reports regarding the PAU program management;

- (iv) Participate in supporting fundraising initiatives to achieve overall financial and engagement goals of PAU
- (v) Activating the Partners involvement in the implementation and operation of the PAU

Other Cross-cutting Issues: (i) Contact person for the CAAST-Net's activities which is a joint Africa-Europe project supported by the European Union's seventh Framework Program (FP7) to promote and increase cooperation between Europe and Africa in science and technology research and policy dialogue

1992 – 2008 Senior Research Scientist, at the National Research Institute for Agriculture Engineering, Water and Forestry (INRGREF), Tunis.

Responsibilities: (i) Development of Research in the field of renewable energies (solar applications in rural areas and water resources management: research themes include solar thermal desalination for domestic and irrigation purposes, valorization of geothermal energy, (ii) Coordinating and management of more than twenty National and international Research project: Project cycle management, including research project identification and design, strategic planning, monitoring and evaluation/impact assessment; qualitative and quantitative research (iii) Resource Capacity building: Training, curriculum development, development of research and educational materials, networking; counseling, mentoring,

Other Cross-cutting Issues: (i) Key partner in the research activities of Solar Energy Laboratory of the National High School of Engineer in Tunis (Research theme: Components and thermal systems), (ii) Community development at national and international levels mainly in Africa: technology transfer; research policy development, analysis and advocacy (iii) Responsible for the INRGREF experimental research station of "Hazeg" (Eastern coast part Tunisia). Tasks include coordination of the experimentation protocols, related to field of irrigation systems and water quality improvements in arid area conditions, carried out by the researchers of the institute.

1990-1992: Research scientist at the Research Center for Rural Engineering, Department of renewable energy applications in rural areas.

1988-1990: Engineer in the Department of renewable energy of the Research Center of Rural Engineering. Involved in the international project of solar water pumping systems for irrigation in the region of Kairawan (Center part of Tunisia)

1985-1986: Contract Engineer at the Tunisian Company for Petroleum Activities (ETAP), for technical assessment of the pilot project entitled "Greenhouses heating by geothermal energy". Chenchou, EL Hamma (Tunisia).

Professional Affiliations & Extra-curricular activities

Language proficiency

Arabic (native language)
French (fluency)
English (fluency)

Membership in Scientific and professional organization

- Member of the Founders committee of the Middle East and North Africa Network of Water Centers of excellence (MENA/ NWC) under the USAID-FABRI program.
- Member of the MENA NWC Board of Directors
- 2011- 2013: Member of the Advisory group of the World bank –African Center of Excellence (ACE).
- Since 2010 -Present: Governing Council member, Regional representative North Africa, of the African Academy of Sciences (AAS)
- Since 2012: Member of the AAS Membership Advisory Committee in the broad area of Engineering Technology and Applied Sciences.
- 2007- 2008: Associate member on the Environmental Security panel under the NATO Science for Peace and security program.
- From 2000, Member of the TWAS-ARO and TWAS ROSSA committees' relevant to scientific, research and development programs in Arab countries and African sub-Saharan countries.
- 1998-2008: Active membership in the Net Aid International Organization
- 1995- 2000: Corresponding member of the International Association for Solar Energy Education (IASSEE) in Tunisia
- 1996-1998: Member in the active group of water resources management in the MENA region under the MED Campus program.
- Member in the Centre for Advancement of Science and Technology
- Member in the International Solar Energy Society
- Associate Editor of the Journal of Fundamentals of Renewable Energy and Applications (JFREA): <http://www.ashdin.com/index.aspx>
- Associate Editor of the editorial board member of the Resources and Environment journal: <http://journal.sapub.org/RE>
- Editorial board member of the American Journal of Energy Research of science and education publishing: <http://www.sciepub.com/journal/AJER/EditorialBoard>
- Editorial Advisory Board Member. Taylor & Francis group, Book Series : Sustainable Energy Developments, Editor: Jochen Bundschuh, University of Southern Queensland (USQ), Toowoomba, Australia & Royal Institute of Technology (KTH), Stockholm, Sweden, (<http://www.taylorandfrancis.com/books/series/SUED>)
- Referee: International Desalination Journal, Journal of Solar Energy Engineering, Biosystems Engineering Journal, Energy Conversion and management, and International Journal of Solar Energy,

Experience in Project management and external evaluation

Experience in Project management

- Member of the Project Management Unit (PMU) for the African Union Commission program on establishing the Pan African University project.
- Technical leader for the INRGREF on Middle East and North Africa Network of Water Centres of Excellence (MENA NWC) activities in the Framework of USAID's Further Advancing the Blue Revolution Initiative.
- Coordinator of more than 20 international projects (EUC, DAAD, FAO, AUC, WB, USAID, GIZ, AOAD i.e. Autonomous Desalination Units based on Renewable Energy Systems (ADU-RES) FF6-509093 (2004-2006); Humidity passive Harvest technologies' Assessment and optimization, HUPHAT. PLICA3-2002-10079. (2003-2005), Policy Initiative to Overcome Water Competition between the Vital Economic Sectors of Agriculture and Tourism in the Mediterranean, Med Water policy, ICA3-

CT2000-30002 (2001-2003), Mechanical Power Generation Based on Solar Thermodynamic Engines (POWERSOL) (Contract No.032344, INCO), CYCLER SUPPORT, Supporting the implementation of FP6 research activities related to waste water use and recycling by using new generation greenhouse systems, adapted to the requirements of the MED partner countries, (Contrat No. 031697 INCO), EMerging POLLutants in Water and WastewatER in Tunisia (EM-PO-W-ER Tunisia) (DAAD Programme, Change by Exchange, Transformation Partnership), Programme d'actions pilotes d'appui aux GDA irrigation (PAP- AGIR), (AFD: Agence Française de développement), European Union and African Union cooperative research to increase Food production in irrigated farming systems in Africa/ EAU4Food (EU, FP7), The global yield gap and water productivity Atlas for Jordan, Morocco and Tunisia.(USAID/programme FABRI), The water, energy and food (WEF) nexus: A basis for strategic planning for natural resources sustainability-Challenges for application in the MENA region. (USAID/programme FABRI), Conjunctive Use of Treated Wastewater and Conventional Water Resources to Sustain Agricultural Production and Mitigate Environmental Risks of Reuse: Diagnosis and Optimization (CUTER-WATER), (USAID/programme FABRI).

External evaluation

- Membership of expert evaluation to the scientific panel under the call FP6-2003-INCO- MPC-2, FP7-Africa-2010, and Environmental 2011-2012 call of the FP7 Cooperation Specific Program, Brussels, Belgium.
- Membership of expert evaluation to the Environmental Security panel under the NATO Science for Peace and security program (2007-2008).
- Member of the Advisory committee (MAC) in the field of Engineering technology and applied sciences for the African Academy of Sciences (AAS)
- 2012 – Present: Member of the International Prize Committee for the Olusegun Obasanjo Prize in Scientific Discovery and/or technological innovation
- Member of the team evaluator of the Common Call Management of ERAfrica at the German Aerospace Agency (DLR) for the area Renewable Energies (2012- present).
- Evaluator for proposals submitted to the Call "Grants and fellowships 2013 of the Fund for Scientific Research – FNRS (2013),
- Member of the evaluation committee team for the projects proposals by The French Research Institute for Development IRD (2013)
- Member of the evaluation committee team for “Doctoral South” program, implemented by the IRD for the CIRAD (2013)
- External experts for the evaluation of research proposals of King Fahd University of Petroleum & Minerals, Saudi Arabia and Sultan Qaboos University Muscat, Oman (1988- present).

Honors and Awards

- Fellow of TWAS (the Academy of Sciences for the Developing World) for outstanding contribution to science and its promotion in the developing world.
- Fellow of the African Academy of Sciences (AAS) for distinguished career and achievements in the field of Renewable Energies.
- From 1988- present: Invited key speaker/lecturer in my field of competences at more than fifteen international conferences, seminars, short courses and workshops.

- August–September 2000: Guest researcher at the Solar Energy Laboratory, Madison, University of Wisconsin, USA.
- September–January 1997: Guest researcher at the Solar Energy Research Centre in Borlange –Sweden.
- Honour prize by the supreme council of sciences as a distinguished work presented in the 34th science week in Damascus, November 1994.
- July- Sep 1994: GTZ fellowship, International program for field testing of photovoltaic water pumps, Technical University of Darmstadt Germany.

List of Publications

1. Books

- [1].**M. Thameur Chaibi** (2011), Greenhouse with Integrated Solar Desalination for Arid Regions -Process System and Development-, Eds LAP LAMBERT Academic Publishing, ISBN-13: 978-3-8465-2962-1, 196 pages
- [2].Daniel Olago, Cheikh Gaye, **Thameur Chaibi**, Salif Diop, Olfa Mahjoub, Manta Nowbuth, Peter Fritz, Sunita Facknath and Rivka Kfir (2014) , Policymakers’ Booklet on The State of Water in Africa – 2014, Editor: Daniel Olago, Network of African Science Academies (NASAC) – German Academy of Sciences Leopoldina and the German Federal Ministry of Education and Research (BMBF), 36 pages.

2. Chapters

- [3].**M. T. Chaibi** and Mahjoub, O. (2013). Status and Development of Water Resources in Northern Africa - Quantitative and Qualitative Evaluation, In: Survey on the Status of Water in Africa. Network of African Science Academies (NASAC) – German Academy of Sciences Leopoldina Project 2012/2013 (ed). (chapter in press)
- [4].Mahjoub, O. and **M.T. Chaibi**. (2013). The Sanitary System in Ancient Roman Civilization: An Insight on Tunisia", In: Evolution of Sanitation and Wastewater Technologies Through the Centuries, (Ed) A. N. Angelakis, P. Wilderer, and J. Rose. IWA-publishing Book (chapter in press)
- [5].Karim Bourouni, **M. Thameur Chaibi**, Ali Al Tae, (2011), Water Desalination by humidification and dehumidification of air, sweater greenhouse process, in Solar Energy Conversion and Photoenergy Systems, [Eds. Julian Blanco Galvez, Sixto Malato Rodriguez], in Encyclopedia of Life Support Systems(EOLSS), Developed under the Auspices of the UNESCO, Eolss Publishers, Oxford, UK, [<http://www.eolss.net>] , Vol IV, 63p
- [6].Karim Bourouni, **M. Thameur Chaibi**, (2009), Solar energy for application to desalination in Tunisia, description of a demonstration project, T.M. Mason and A. Mor (eds.) , Renewable Energy in the Middle East, DOI 10.1007/978-1-4020-9892-5_8, © Springer Science + Business media B.V. 2009, Chap 8, 125-149
- [7].**M.T. Chaibi**, and Ali M. El-Nashar (2009), Solar Thermal Processes, A Review of Solar Thermal Energy Technologies, G. Micale et al. (eds.), Seawater Desalination, Green Energy and Technology, Springer-Verlag Berlin Heidelberg , Chap 6

2. Peer reviewed articles

- [8].**M.T. Chaibi**, K. Bourouni, M.M. Bassem, (2013) Experimental Analysis of the Performance of a Mechanical Geothermal Water Cooling Tower in South Tunisia,

- American journal of Energy Research**, 2013 (1),1-6.
- [9].**M.T. Chaibi** (2013) Thermal Solar Desalination Technologies for Small-Scale Irrigation, **American journal of Energy Research**, 2013 (2), 25-32.
- [10].W.Chouaieb , **M. T. Chaibi** (2013), Performance evaluation of condensation irrigation system under arid climate condition, **International Journal of Energy Technology and Policy** (accepted, under press)
- [11].B. Yousefi , S.Boroomandnasab and **M. T. Chaibi** (2012), Assessment of the Performance of Condensation Irrigation System: First Results, **World Rural Observations** 2012;4(3)
- [12].Bourouni, K., Bassem, M.M. & **Chaibi, M.T.** (2008) Numerical Study of Coupled Heat and Mass Transfer in a Geothermal Water Cooling Tower, **Energy Conservation and Management**, Volume 49, (5), 988-994.
- [13].Bassem, M.M. ,**M.T. Chaibi**, M.T, Bourouni, K., (2008) Les tours de refroidissement des eaux géothermales dans le sud tunisien : concepts et performances, **Revue des régions arides** (ISSN 0330-7956), 2008 (2), no21, pp. 497-508
- [14].**Chaibi M.T.** and Bourouni, K. 2007. Development of Solar Desalination Systems Concepts for Irrigation in Arid Areas Conditions, **NATO Security through Science Series C: Environmental Security**, 19-32.
- [15].Bourouni, K. and **Chaibi, M.T.** 2007. Optimizing coupling small desalination to solar collectors: a case study. **NATO Security through Science Series C: Environmental Security**, 83-92
- [16].**Chaibi, M.T.** & T. Jilar, T. 2005. Effects of a Solar Desalination Module integrated in greenhouse Roof on Light Transmission and Crop Growth. **Biosystems Engineering**, Volume 90 (3), 319-330.
- [17].Bourouni, K. & **Chaibi, M.T.** 2004. Modelling of heat and mass transfer in horizontal-tube falling film condenser for brackish water desalination in remote areas. **Desalination Journal**, 166, 17-24.
- [18].**Chaibi, M.T.** & Jilar, T. 2004. System design, operation and performance of roof integrated desalination in greenhouses. **Solar Energy Journal**, 76 (5), 545-561.
- [19].Bourouni, K., Bouden, C. & **Chaibi, M.T.** 2003, Feasibility investigation of coupling a desalination prototype functioning by Aero-Evapo-Condensation with solar units, **International Journal of Nuclear Desalination**, 1 (1),116-131
- [20].**Chaibi, M.T.** 2002, Validation of a Simulation Model for Water Desalination in a Greenhouse Roof through Laboratory Experiments and Conceptual Parameter Discussions, **Desalination journal**, 142 (1), 65-78
- [21]. Bourouni, K., **Chaibi, M.T.**, Tadrist, L. 2001, Water desalination by humidification and dehumidification: state of the art, **Desalination Journal**, 137, 167–176
- [22].Bourouni, K., **Chaibi, M.T.**, Tadrist, L. 2001, Analytical Analyze of heat transfer in liquid film dripping around horizontal tube, **Desalination Journal**, 141, 7-13.
- [23].**Chaibi, M.T.** 2000, Analysis by simulation of a solar still integrated in a greenhouse roof, **Desalination Journal**, 128 (2), 123-138.
- [24].**Chaibi, M.T.** 2000, An overview of solar desalination for domestic and agriculture water needs in remote arid areas, **Desalination journal**, 127 (2), 119-133.
- [25].Bourouni, K, Martin, R., Tadrist, L & **Chaibi, M.T** 1999, Heat transfer and evaporation in geothermal desalination units, **Applied energy**, **64** (1/4),129-147.
- [26].**Chaibi M. T.** 1994. Renewable energies and their role in the development of rural areas of Tunisia Renewable Energy, Volume 5, Issues 5-8, August 1994, 1538-1540
- [27].**Chaibi, M.T.** 1993. Strategic management of utilization of new and renewable energy in rural areas of Tunisia. **Energy & Environment**, 4 (4), 408-415.

- [28].**Chaibi, M.T**, Safi, M.J. & Hasairi, M. 1991. Performance analysis of a solar desalting unit in south Tunisia. **Desalination** (82), 197-205.
- [29].**Chaibi, M.T**. 1991. Coefficient of heat transfer from greenhouses heated by geothermal energy in south Tunisia. **Plasticulture**, 92 (4) 41-48.

3. Articles in proceedings

- [30].Issam Daghari, **Thameur Chaibi**;, Serge Marlet, 2014, Salinity Management Options in Irrigated Agriculture: a Tunisian Case Study, 20th LAAS International Science Conference Advanced Research for Better Tomorrow, 27-29 March 2014, Hadath, Lebanon
- [31].Rabi Mohtar, Bassel Daher, Insaf Mekki, **Thameur Chaibi**, Rim Zitouna Chebbi, and Ahmed Al Salaymeh, 2014, The water, energy and food (WEF) nexus project: A basis for strategic planning for natural resources sustainability-Challenges for application in the MENA region. European Geosciences Union General Assembly 2014 Vienna,|Austria, 27 April – 02 May 2014
- [32].Bahri H., Hermassi T., Ben Nouna B., and **Chaibi M.T**. 2013. An Overview Analysis of the Wheat Yield Gap in Tunisia. *ASA, CSSA & SSSA International Annual Meetings: November 3-6, Tampa*. United States.
- [33].**Chaibi M. T.**, Njenga B. 2011, AUC Approach to Capacity development of Tertiary Education and Research in Africa, Workshop on Knowledge Management Capacity in Africa, January 4-7, 2012, Khartoum, Sudan
- [34].**Chaibi M.T**. 2011, Programs for scaling up renewable energies in Africa, International solar energy experts (I-SEE) , 2 – 4 August 2011, KNUST Ghana <http://www.energycenter.knust.edu.gh/downloads/7/71918.pdf>
- [35].**Chaibi M.T**. 2011, Towards Tunisian Solar Plan, Solar Energy Experts workshop , August 2- 4 2012, The Energy Center (TEC), KNUST, Kumasi, Ghana
- [36].**Chaibi, M.T.**, Bartholomé, E. 2009, The « GMES & Africa » process - State of play- , Geoland Forum, 12 May 2009, Berlin, Germany.
- [37]. **Chaibi, M.T**. and Z.S. Abdel-Rehim 2008, Solar still integrated in a greenhouse roof: laboratory experiments and model validation, Third International conference of engineering research Division on Engineering Sciences and technologies – Mars 24-26, 2008, NERC- Cairo- Egypt
- [38].Bourouni, K, T. Ben M'Barek and **Chaibi, M.T**, 2007, Strategic study for the development of autonomous units for desalination in Tunisia, First World Water Sustainability - Renewable Energy Congress and Exhibition, 25-28 Nov; 2007, MECC Conference Complex, Maastricht, Netherlands.
- [39].Chouaieb, W., **Chaibi, M.T.**, Masmoudi, M., Mansour, M., 2007, Etude expérimentale d'un système d'irrigation par condensation fonctionnant à l'énergie solaire, First Maghreb Conference on Desalination and Water Treatment, CMTDE, 7-10 Dec. 2007, Hammamet, Tunisia
- [40].**Chaïbi, M.T.**, and Bourouni, K. Bassem, M.M., 2007, Les tours de refroidissement des eaux géothermales dans le sud tunisien: concepts et performances. Fiche technique à l'intention de l'INRGREF. 5 pages.
- [41].**Chaïbi, M.T.**, 2007, Desertification & Water, Environmental Security in the Context of NATO SPS Programme, NATO Info Day and Building Partnership, 8-9 Nov. 2007, Ankara, Turkey (invited speaker).
- [42].**Chaibi, M.T**, 2007, Desalination in North Africa, Leadership for Water and Energy Security in the Middle East and North Africa, United Nations University, International

- Leadership Institute (INU-ILI), 1st -2nd July 2007, Amman, Jordan (invited speaker).
- [43].**Chaïbi, M.T.**, Bourouni K. and Jilar, T. 2007, Practical alternatives to Using Solar Desalination for Irrigation in Arid Areas Conditions. Edited volume, 3ed International Conference on solar radiation and day lighting, Delhi India. Anamaya Publisher. Dube S.K, Muneer.T and Tiwari G.N.(Eds) 2007, 418-431. (invited speaker)
- [44].Bourouni, K; Ben Mbarek, T; **Chaïbi, M.T.** 2007, Strategic study for the development of autonomous units for desalination. First World Water Sustainability -Renewable Energy Congress and Exhibition November 25th - 28th 2007 at Maastricht, the Netherlands , WREN (www.wrenuk.co.uk) and InterExpo Caribbean N.V. (www.interexpo.biz)
- [45].Bassem, M.M., **Chaïbi, M.T.**, and Bourouni, K.2006, Les tours de refroidissement des eaux géothermales dans le sud tunisien : concepts et performances. Proceedings of the International Meeting on Resources Management and Biotechnological Applications on Arid and Oasis Culture, Djerba. Tunisia, December 25 th - 28th 2006.
- [46].Bourouni, K., **Chaïbi M.T.** and Haj Ali, W. 2006. Etude numérique d'une unité de dessalement fonctionnant par l'énergie solaire. The International Conference on Renewable Energies and Water Technologies (CIERTA 2006).Almeria, Spain October 5-7th 2006
- [47].Bassem, M.M., Bourouni, K. and **Chaïbi, M.T.** 2006. Etude numérique des transferts couplés de chaleur et de masse dans un refroidisseur d'eau géothermale. Proceedings des Journées Tunisiennes sur les écoulements et les transferts (JTET), Monastir, March 19 th – 21st 2006
- [48]. Bassem, M.M., Bourouni, K. and **Chaïbi, M.T.** 2006. Numerical study of coupled transfer of heat and mass between air and water in a geothermal water cooling tower. Bulletin of the American Physical Society, APS Division of Fluid Dynamics 59th Annual Meeting of the, Tampa, Florida, USA, November 19 th-21st 2006, Volume 51, N°9, page 246.
- [49].**Chaïbi M. T.** 2006. Strategic Policy Tool for Implementation Renewable Energy Systems in Rural Areas of Tunisia, fourth conference on Scientific Research Outlook & Technology Development in the Arab World, Alexandria, Egypt, 22 - 25 Apr 2006.
- [50].Bourouni, K. and **Chaïbi M.T.** 2005. Using geothermal and solar energy for autonomous water desalination units, Unités de Dessalement Alimentées par les Energies Renouvelables Opportunités et Défis, ADU-RES international workshops 26-27 Sept. 2005, Hammamet, Tunisia. www.adu-res.org.
- [51].**Chaïbi, M.T.** and Bourouni, K. 2005. Geothermal water cooling systems in Tunisia- Design and practice, Proceedings Word Geothermal Congress, Antalya, Turquie , 24- –29 Avril 2005.
- [52].**Chaïbi, M.T.** and Bourouni, K. 2005. Application of Geothermal Energy for Brackish Water Desalination in the South of Tunisia, Proceedings Word Geothermal Congress, Antalya, Turquie, 24- –29 Avril 2005.
- [53].Saidam, M., Epp C., Tondi, G. and **Chaïbi, M.T.** 2004. International Water Demand management Conference, May 30- June 3, Wdm2004, Dead Sea Jordan
- [54].**Chaïbi, M.T.**, Chenini, F., Epp, C. and Tondi, G. 2004. Une approche intégrée pour la gestion durable des ressources en eau dans le bassin méditerranéen, Colloque développement durable, Leçons et perspectives, Ouagadougou, Burkina Faso, 1 – 4 Juin 2004, tome 2, 139-146.
- [55].Bourouni, K. and **Chaïbi, M.T.** 2004. Development of agriculture in the south of Tunisia by using geothermal energy for water desalination. International conference on geothermal energy applications in agriculture, Athens, Greece, 3-4 May 2004.
- [56].Bourouni, K. and **Chaïbi M.T.** 2004. Modelling of heat and mass transfer in a horizontal-tube falling-film condenser for brackish water desalination in remote areas,

- EuroMed 2004, Marrakech, Maroc, 30 Mai - 2-Juin 2004.
- [57].**Chaibi, M.T.** and Chenini, F. 2003. Climate Changes in the Mediterranean Region: Water Use and Competition between the Agricultural and Tourism Sectors. Advanced Research workshop on Climate change and tourism – Assessment and coping strategies - 6th – 8th November 2003, Warsaw, Poland.
- [58].**Chaibi, M.T.** and Jilar, T. 2003. Economy prospects for roof integrated water desalination in greenhouses. Solar Word Congress 2003, ISES, Göteborg Suède, 13-19 Juin 2003.
- [59].Bourouni, K., Bouden, C. and **Chaibi, M.T.** 2003. Improvement of the efficiency of a small desalination unit functioning by air humidification and dehumidification by using air flat-plate solar collectors, ISES, Göteborg Suède, 13-19 Juin 2003.
- [60].Bourouni, K., Bouden, C. and **Chaibi, M.T.** 2003. Utilisation de l'énergie solaire dans un procédé innovant de dessalement d'eau fonctionnant par humidification et déshumidification de l'air, COMPLES'2K3 - Mediterranean Conference on Environment and Solar Use, Aleppo (Syrie), 19-20 Octobre 2003, 3p.
- [61].**Chaibi M.T.**, Jilar, T., Bourouni, K., Ben Bacha, H. and Maalej, A. 2000. Economics Aspects of Solar Desalination for Agricultural Purposes, GlobeEX 2000, Las Vegas USA, 23ed – 28th July, 330-339
- [62].Bourouni, K. **Chaibi, M.T.** and Tadriss, L. 2000. Analytical and experimental analyze of heat and mass transfer in liquid film evaporation around a horizontal tube, GlobalEx 2000, Las Vegas, 23-26 juillet 2000
- [63].Bourouni, K. **Chaibi, M.T.** and Tadriss, L. 2000. Liquid film evaporation around a horizontal tube: Application for a desalination process. Arab school of Science and Technology (AAST) meeting Cairo, Egypt, January, 23ed –27th, 104-116
- [64].**Chaibi, M.T.** and Bourouni, K. 2000, Operational experience with geothermal desalination unit in the south of Tunisia and its contribution to fresh water supply. Arab school of Science and Technology (AAST) meeting Cairo, Egypt, January, 23ed –27th, 117-130
- [65].Bourouni, K., **Chaibi M.T.**, Martin, R. and Tadriss, L. 1998. Analysis of heat transfer and evaporation in geothermal desalination units, «the 7th International Energy Conference and Exhibition ENERGEX'98», Bahrain, 19-21 Novembre 1998
- [66].Bourouni, K., Martin, R., Tadriss, L. and **Chaibi, M.T.** 1998. Le dessalement d'eau saumâtre par aero-evapo condensation, une potentialité pour les régions arides. HYDROTOP 98, Marseille, France, 21-23 avril.
- [67].Ben Mabrouk, S. and **Chaibi, M.T.** 1995. Development of Solar Crop Dryers in Tunisia. Cinquième Conférence Internationale Arabe sur l'Energie Solaire (The 5Th Arab International Solar Energy Conference) AISEC, du 13 au 16 Novembre Bahrain.
- [68].**Chaibi M. T.** and Safi M.J. 1991. Solar desalination with a multi effect process – evaporation and condensation cycle- 31st science week, Lattakia, Syria, 2-8 November 1991.
- [69].**Chaibi, M.T.** 1991. Desalination of brackish water and their use in rural areas. Twelfth International Symposium on Desalination and Water Re-Use. Malta 15-18 April 1991.