**M. Thameur CHAIBI**

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| **Date of birth**: 13/05/1961 | **Nationality**: Tunisian | | **Gender** : Male | (+216)94969337 |
| **Thameur.chaibi@gmail.com** | | INRGREF , BP 10, 2080, Ariana, Tunisia | | |

**About me**: I am Professor and director of Research at the National Research Institute for Rural Engineering water and Forestry, Tunis, Tunisia. I have worked more than three decades promoting higher education and research programs in developing countries in the field of water-energy-food security nexus and agriculture innovation and technologies.

**Competences**: Climate and Agriculture Technologies, Water Resources Engineering, Energy-water nexus and energy-environment nexus, Renewable Energy Systems, Environment Management

* **WORK EXPERIENCE**

01/06/2016 – CURRENT – Ariana, Tunisia

**SCIENTIFIC DIRECTOR** – NATIONAL RESEARCH INSTITUTE FOR RURAL ENGINEERING, WATER AND FORESTRY

1. Maintain an overall knowledge of the Institute’s projection to ensure effective performance monitoring of research projects and develop appropriate strategies and programs for research in the field of my competence;
2. Supervise the Institute research staff and provide routine evaluations of progress toward research programs goals and identify and promote professional growth opportunities for research staff.
3. Master of ceremony for government-based meetings/events/launches

08/2015 – 06/2016 – Tlemcen, Algeria

**HIGHER EDUCATION ADVISOR –** GERMAN CORPORATION FOR INTERNATIONAL COOPERATION (GIZ )

Coordinate and develop partnerships with the relevant national, regional, continental and international organizations together with accreditation and quality assurance agencies

1. Support the quality of PAUWES academic affairs and evaluation teaching activities and students’ affairs
2. Coordination of the research committee for PhD program and research agenda in collaboration with GIZ, BMBF and German High Education Consortium.
3. Planning PAUWES roadmap 2015/2016 and development of academic-related master thesis

05/2014 – 07/2015 – Addis Ababa, , Ethiopia

**INTERNATIONAL EDUCATION PROGRAMME COORDINATOR** – AFRICAN UNION COMMISSION (AUC)

1. Coordinate the planning, development and evaluation of academic programs, policies, procedures and guidelines;
2. Coordinate the evaluation and review of academic programs and curriculum development;
3. Coordinate with the relevant national, regional, continental and international accreditation and quality assurance agencies;
4. Supervise the Directors of the five thematic institutes and affiliate centres, and evaluating and approving their recommendations for faculty hiring, promotion and tenure;
5. Assist in budget preparation for the academic and academic-related programs;
6. Participate in planning, developing and implementing innovative and proactive programs, services and procedures which respond to the changing needs and requirements of the University's student community and which enhance the University's viability for student recruitment and retention purposes;
7. Foster cross-Institute co-operation in the furtherance of the University's
8. Mission Statement and Strategic Plan and in the effective utilization of University resources

01/2014 – 05/2014 – Ariana, Tunisia

**HEAD OF DEPARTMENT IN A UNIVERSITY – NATIONAL RESEARCH INSTITUTE FOR RURAL ENGINEERING, WATER AND FORESTRY**

1. Monitoring the implementation of research programs in the domain of Rural Engineering focused mainly on water, soil and environment management;
2. Effective use of research funds available for the department including human and material resources from services provided to the economic and socio-cultural environment;
3. Coordination and leadership of the research activities undertaken by the research teams;
4. Reporting of annual self-assessment, midterm and final department activities, Development of future design activities of the department and research programs

05/2008 – 01/2011 – Addis Ababa, Ethiopia

**SENIOR EXPERT IN S&T** – AFRICAN UNION COMMISSION,

**Science and Technology**

1. 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".
2. 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);
3. Capacity building in the AUC on Geospatial Sciences ( project coordinator of the African side),
4. Participating in development partners programs with the view to creating strategic partnerships aimed at pooling resources, information sharing and harmonization of Africa’s science and technology programs,
5. 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.
6. 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):

1. Developing network of institutional links and policy mechanisms that promote the implementation and management of the PAU;
2. Assisting with monitoring and follow up the implementation and management of the PAU commitments by the member states institutions;
3. Coordinating production of periodic reports regarding the PAU program management;
4. Participate in supporting fundraising initiatives to achieve overall financial and engagement goals of PAU
5. 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

01/1992 – 12/2008 – Ariana, Tunisia

**ENVIRONMENTAL RESEARCHER** – NATIONAL RESEARCH INSTITUTE FOR AGRICULTURE ENGINEERING, WATER AND FORESTRY

1. 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,
2. 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
3. Resource Capacity building: Training, curriculum development, development of research and educational materials, networking; counseling, mentoring,

**Other Cross-cutting Issues**:

1. 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),
2. Community development at national and international levels mainly in Africa: technology transfer; research policy development, analysis and advocacy
3. 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.

* **EDUCATION AND TRAINING**

**\_**01/1997 – 05/2003 – Alnarp, Sweden

**DOCTOR OF PHILOSOPHY (PHD) IN THE SUBJECT OF AGRICULTURE AND CLIMATE TECHNOLOGIES** – Swedish University of Agricultural Sciences (SLU)

1996 – 1997 – Alnarp, Sweden

**MASTER OF SCIENCE IN THE SUBJECT OF AGRICULTURE BIO-SYSTEMS AND TECHNOLOGIES**, – the Swedish University of Agricultural Sciences (S.L.U).

09/1992 – 12/1992 – Maastricht, Netherlands

**POST GRADUATE DIPLOMA IN ENVIRONMENTAL MANAGEMENT PROGRAM**, – Netherlands International Institute for Management (R.V.B).

10/1984 – 05/1987 – Tunis, Tunisia

**SPECIALIZED ENGINEER DIPLOMA IN HYDRAULIC AND RURAL ENGINEERING** – The National Institute of Agronomy in Tunis (I.N.A.T).

10/1980 – 06/1984 – Tunisia

**ENGINEER DIPLOMA IN RURAL DEVELOPMENT** – High School of Rural Equipment in Tunisia

* **LANGUAGE SKILLS**

**Mother tongue(s**): ARABIC

**Other language(s):**

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | UNDERSTANDING | | | SPEAKING | | WRITING | |
|  | Listening | Reading | Spoken production | | Spoken interaction | |  |
| FRENCH | C2 | C2 | | C2 | C2 | C2 | |
| ENGLISH | C1 | C1 | | C1 | C1 | C1 | |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

* **HONOURS AND AWARDS**

**2009**

**Fellow member TWAS** (the Academy of Sciences for the Developing Word)

2017

**Fellow member – the Islamic Academy of Sciences (IAS)**

2006

**Fellow member – the African Academy of Sciences (AAS)**

2017

**Regional winner 2017 in the field of Education and Training: Academic – Under the Titans Programme: Building Nations**

* **PROJECTS**
* **Project management (advanced level) Certificate**. GIZ –Skills Development for Sectoral and **Management Tasks (May 2016)**
* **Coordinator of more than 10 Bilateral and International projects** (EUC, DAAD, FAO, AUC, WB, USAID, BMBF, BMZ GIZ, AOAD) i.e:

2020 – CURRENT

Thermochemical fluids in greenhouse farming (**GREEFA**), Horizon 2020 – the Framework Programme for Research and Innovation

2019 – CURRENT

A Novel Condensation Supported Greenhouse irrigation system (**CONSIRS**), PRIMA – Partnership for Research and Innovation in the Mediterranean Area in the frame of Euro-Mediterranean cooperation

2018 – 2019

MENA renewable energy transformation (**MENARET**), BMBF-TUB,

2004 – 2006

Autonomous Desalination Units based on Renewable Energy Systems (**ADU-RES**) FF6-509093

2003 – 2005

Humidity passive Harvest technologies’ Assessment and optimization (**HUPHAT)**. PLICA3-2002-10079

2001 – 2003

Policy Initiative to Overcome Water Competition between the Vital Economic Sectors of Agriculture and Tourism in the Mediterranean ( **Med Water policy)**, ICA3-CT2000-30002

2007 – 2008 Development of Autonomous solar desalination systems for agricultural use, Tuniso-Egyptian bilateral cooperation

2002 – 2005

Optimisation technico-économique des refroidisseurs des eaux géothermales du sud tunisien, **PISEAU program**

***International projects members:***

2020 – CURRENT

**TRESOR** - Waste water treatment project cross border cooperation.

2020 – CURRENT –

**HubIS,** Open innovation Hub for Irrigation Systems in Mediterranean agriculture, PRIMA – Partnership for Research and Innovation in the Mediterranean Area in the frame of Euro-Mediterranean cooperation

2019 – CURRENT

**MASSIRE** – Innover pour mieux gérer la ressource en eau au Maghreb, Coordinated by CIRAD and funded by FIDA – (2019-2021)

2018 – CURRENT –

**LEAP-Agri** - A Long term EU- Africa research and innovation Partnership on food and nutrition security and sustainable Agriculture (LEAP-agri)

2012-2013

**EM-PO-W-ER** Tunisia, EMerging POllutants in Water and Waste watER in Tunisia (DAAD Programme, Change by Exchange, Transformation Partnership), Programme d’actions pilotes d’appui aux GDA irrigation (PAP- AGIR)

2011-2015

**EAU4Food,** European Union and African Union cooperative research to increase Food production in irrigated farming systems in Africa/ (EU, FP7);

2006-2008

**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)

2007-2008

**POWERSOL**, Mechanical Power Generation Based on Solar Thermodynamic Engines (POWERSOL) (Contract No.032344, INCO)

**CCUTER-WATER**, Conjunctive Use of Treated Wastewater and Conventional Water Resources to Sustain Agricultural Production and Mitigate Environmental Risks of Reuse: Diagnosis and Optimization, (USAID/ programme FABRI)

**GMES,** Involvement in the activities of the GMES & Africa joint initiative of the African Union Commission and the European Commission expert (1st and 2nd forum of the GMES & Africa, Nov 2018, Libreville, Gabon, May 2019, Dakar, Senegal, 2021 Abidjan, Cote d’ivoire)

* **PUBLICATIONS**

**Orcid Number: 0000-0003-4086-6901**

**Scopus (**[**https://www.scopus.com/authid/detail.uri?authorId=55881701800**](https://www.scopus.com/authid/detail.uri?authorId=55881701800)**)**

**Google scholar ( https://scholar.google.com/citations?user=wUbMlDsAAAAJ&hl=en)**

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*Books and chapters*

1. Olfa Mahjoub, Tha meur Chaibi, Shems Mohamed, (2021) Water Resources Availability and Quality in the North Africa Region under Climate Change, Climate Change and Water Resources in Africa. S. Diop et al. (eds) (doi:10.1007/978-3-030-61225-2), Chap3 29-54.
2. Thameur Chaibi, Mohamed Hassan, Endeshaw Bekele, Elly Sabiiti (2019), Opportunities and Challenges for Research on Food and Nutrition Security and Agriculture in Africa, Steering committee, Editor: Sheryl Hendriks, Network of African Science Academies (NASAC) – German Academy of Sciences Leopoldina and the German Federal Ministry of Education and Research (BMBF), 62 pages (http://nasaconline.org/wp-content/uploads/2018/05/NASAC-FNSA-Opportunities-and-challenges-for-research-on-food-nutrition-security-and-agriculture-in-Africa.pdf)
3. Daniel Olago, Cheikh Gaye, Thameur Chaibi, Salif Diop, Olfa Mahjoub, Manta Nowbuth, Peter Fritz, Sunita Facknath and Rivka Kfir(2014) , The Grand challenge of water security in Africa –Recommendations to policymakers, 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. (http://nasaconline.org/wp-content/uploads/2016/05/The-Grand-Challenge-of-Water-Security-in-Africa-Recommendations-to-Policymakers.pdf)
4. 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).
5. 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. Chap 13, 269-281. (doi:10.2166/9781780404851)
6. 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 (<https://www.lap-publishing.com/>)
7. Karim Bourouni, M. Thameur Chaibi, Ali Al Taee, (2011), Water Desalination by humidification and dehumidification of air, sweater greenhouse process, in Solar Energy Conversion and Photoenergy Systems, [Eds. Julian Blanco Galvez, SixtoMalato Rodriguez], in Encyclopedia of Life Support Systems(EOLSS), Developed under the Auspices of the UNESCO, Eolss Publishers, Oxford, UK, [<https://www.eolss.net/ebooklib/bookinfo/solar-energy-conversion-photoenergy-system-thermal-systems-desalination-plants.aspx>] , Vol IV, 63p
8. 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
9. 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 (doi: 10.1007/978-3-642-01150-4

2. *Peer reviewed articles*

1. Jemai, N.; Soussi, M.; Chaibi, M.T. Opportunities for Implementing Closed Greenhouse Systems in Arid Climate Conditions.  *Horticulturae* 2022, *8*, 1102. https://doi.org/10.3390/horticulturae8121102
2. Soussi, M.; Chaibi, M.T.; Buchholz, M.; Saghrouni, Z. Comprehensive Review on Climate Control and Cooling Systems in Greenhouses under Hot and Arid Conditions. Agronomy 2022, 12:3, 626. https://doi.org/10.3390/agronomy12030626
3. Bagher Yousefi, Jenny Lindblom, Bo Nordell, Saeed Boroomand-Nasab, M. Thameur Chaibi; Field solution to produce irrigation-drinking water by condensation irrigation system from seawater. *Water Supply* 2022; ws2022163. <https://doi.org/10.2166/ws.2022.163>
4. Ahmed Musa, S.; Chaibi, T. Scanning climate change impacts on water resources of the largest African river basins. International Journal of River Basin Management 2000, 18:1, 33-38. DOI: [10.1080/15715124.2019.1576699](https://doi.org/10.1080/15715124.2019.1576699)
5. Thameur Chaibi (2020), Research priorities and actions for sustainable agriculture water management in MENA region. Desalination and water treatment 176:221-221 (doi:[10.5004/dwt.2020.25521](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.5004%2Fdwt.2020.25521?_sg%5B0%5D=EZo3gPcte6095XmAmnNnJAkdD8aARzfoZRFCdZzJhOI0n6yvDILlZ3CxDCaBFOPDfqMjbIfCAM5_k6S115DwtT2WYw.-IDLaLIfizhuJv_9S3TdtEm3qDffdGiqrwxKn_2i8RiB9P3vC-iewTpmblJLakiDtuFbwMJ6wa7_ZafRA6zg8g))
6. Sheryl L. Hendriks, Endashaw Bekele, Thameur Chaibi, Mohamed Hassan, Douglas W. Miano and John H. Muyonga, 2021, The Role of Science, Technology, and Innovation for Transforming Food Systems in Africa. United Nations Food Systems Summit 2021 Scientific Group Scientific Group (<https://bonndoc.ulb.uni-bonn.de/xmlui/handle/20.500.11811/9149>)
7. Thameur Chaibi (2020), Contribution to provide well-researched information on the state of water resources in Tunisia for Fanack Water - <https://water.fanack.com/tunisia/>
8. W.Chouaieb , M. T. Chaibi (2014), Performance evaluation of condensation irrigation system under arid climate condition, International Journal of Energy Technology and Policy, Vol 12, (2), 145-160 (doi: 10.1504/IJETP.2014.066330)
9. 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. (doi: 10.12691/ajer-1-1-1)
10. M.T. Chaibi (2013) Thermal Solar Desalination Technologies for Small-Scale Irrigation, American journal of Energy Research, 2013 (2), 25-32. (doi: 10.12691/ajer-1-2-1)
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) (doi:[10.7537/marswro040312.02](http://www.dx.doi.org/10.7537/marswro040312.02))
12. Bourouni, K., Bassem, M.M. &Chaïbi, 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. (doi: 10.1016/j.enconman.2007.10.003)
13. Bassem, M.M. ,M.T. Chaïbi, 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. (doi: 10.1007/978-1-4020-5508-9\_2)
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 (doi: 10.1007/978-1-4020-5508-9\_6)
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. (doi: 10.1016/j.biosystemseng.2004.12.001)
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. (doi: 10.1016/j.desal.2004.06.055)
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. (doi:10.1016/j.solener.2003.12.008)
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+ (doi:10.1504/IJND.2003.003448)
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 (doi: 10.1016/S0011-9164(01)00426-X)
21. Bourouni, K., Chaibi, M.T., Tadrist, L. 2001, Water desalination by humidification and dehumidification: state of the art, Desalination Journal, 137, 167–176 (doi: 10.1016/S0011-9164(01)00215-6)
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 (doi:10.1016/S0011-9164(01)00384-8)
23. .Chaibi, M.T. 2000, Analysis by simulation of a solar still integrated in a greenhouse roof, Desalination Journal, 128 (2), 123-138. (doi:10.1016/S0011-9164(00)00028-X)
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. (doi:10.1016/S0011-9164(99)00197-6)
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.(doi:10.1016/S0306-2619(99)00071-9)
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 (doi: 10.1016/0960-1481(94)90204-6)
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. ([doi: 10.1177/0958305X9300400404](https://doi.org/10.1177/0958305X9300400404)
28. Chaibi, M.T, Safi, M.J. & Hasairi, M. 1991. Performance analysis of a solar desalting unit in south Tunisia. Desalination (82), 197-205. (doi: 10.1016/0011-9164(91)85182-T)
29. Chaibi, M.T. 1991. Coefficient of heat transfer from greenhouses heated by geothermal energy in south Tunisia. Plasticulture, 92 (4) 41-48.
30. *Keynote addresses, plenary sessions, invited lectures and seminars*
31. M.T.Chaibi, 2022, Promoting Renewable Energy Pumping Systems in Agriculture Sector, Global Symposium on Sustainable Water and Energy Solutions, 13 - 15 June 2022, at the Itaipu Binacional Headquarters located at the border between Brazil and Paraguay. https://www.un.org/en/water-energy-network/page/global-symposium-sustainable-water-and-energy-solutions
32. M.T.Chaibi, 2021, Incorporate nexus thinking approach towards Sustainable use of water resources, PAUWES webinar series/window3: World water day 2021”. <https://www.pauwes.dz/?p=2171>.
33. M.T.Chaibi, 2020, Technology Challenges of Thinking Water-Energy-Food Nexus in Support of Sustainable Agriculture, Online Training Seminar: "Technology Options for the Water-Energy-Food Nexus" https://www.eugcc-cleanergy.net/wef-1
34. M.T.Chaibi, 2020, Renewable Energy for the Sustainable Development of the Agriculture sector, Workshop on “Access to Finance for Municipalities- Nexus thinking and Decentralization of Sub national Governments” Economic and Social Commission for Western Asia (ESCWA), RSS/NERC, 29-30; Amman , Jordan. <https://www.unescwa.org/events/access-finance-municipalities-decentralization-nexus-REGEND>
35. M.T. Chaibi, 2019, Integrated Approach for Solving Water Scarcity Problems in North Africa, International Conference on Sustainable Water Treatment Technologies And Environment SUST-WATER 2019, UDES-Bou-Ismail, October14 -16, 2019, Algeria. <http://udes.cder.dz/sustwater2019/PDF/Final%20Sustwater%20program.pdf>, <https://www.reporters.dz/2019/10/21/chaibi-thameur-chercheur-tunisien-revenir-aux-methodes-ancestrales-de-collecte-des-eaux-de-pluie/>
36. M.T. Chaibi, 2019, Priorities and Actions for Sustainable Agriculture Water Management in MENA Region, WSTA Thirteenth Gulf water Conference and Exhibition 11-14 March 2019, KISR, Kuwait ( <https://gulfwaterconference.org/conference/>)
37. M.T. Chaibi, 2019, Actions for Enhanced Renewable Energy Research  in Agriculture Sector, Photovoltaic & Agriculture Conference, 19th June 2019, ENIT, Tunisia (<http://www.ines-solaire.org/wp-content/uploads/2019/06/eraetmed-leaflet05-2019-v2.pdf>)
38. M.T.Chaibi (2019), Renewable Energies Desalination Systems Concepts for Irrigation in Arid Areas Conditions, lecture in the two-day intensive course on solar driven desalination and water purification, Gathering the water and renewable energy Communitie!   March 25–26, 2019, CRTSE, Algeria
39. M.T.Chaibi (2019), Participation in the Global Sustainable Development Report 2019 consultation workshop in Amman, Jordan 29-30 April 2019.
40. M.T.Chaibi, 2018; An Integrated Approach towards Implementing Water Resources Management in North Africa, 2nd Conference on civil engineering, 3-5 Dec 2008, Khartoum,Soudan,http://onlinejournals.uofk.edu/index.php/CCE2018/article/view/2051
41. M.T. Chaibi 2018, Facilitator of the session” Information requirement for water Resources management”, GMES & Africa First Continental forum; 19-23 Nov 2018, Libreville , Gabon
42. M.T. Chaibi, 2018; Moderator of the International Workshop on “Water-Energy-Food Nexus implementation in the Mashreq”, session Session 3: WEF Nexus Implementation (Regional case studies); 24-26 Sept 2018, , Beirut (Lebanon) https://www.water-energy-food.org/resources/resources-detail/international-workshop-water-energy-food-nexus-implementation-in-the-mashreq/
43. M.T. Chaibi, 2018; Master of Ceremony of the PAUWES Research 2 Practice Forum 2018, April 16-18 Tlemcen. <http://pauwes-cop.net/res2prac/wp-content/uploads/2018/05/Final_Concept_Note_updated.pdf>
44. M.T. Chaibi, 2017; The Future of Water Scarcity in North Africa: Moving from Challenges to Opportunities, TWAS roundtable to explore North-South issues at the 2017 Trieste Next science festival. September 21st, 2017, Auditorium of Museo, Trieste city centre, Italy. (<https://twas.org/article/trieste-next-mediterranean-north-and-south>).
45. M.T. Chaibi, 2017; Could Solar Desalination Save Agriculture in Arid Areas?; The 21stConference of the Islamic World Academy of Sciences (IAS) on Science, Technology and innovation for Global peace and prosperity, 8-11October 2017 Konya, Turkey; (https://www.konya.edu.tr/storage/images/web/events/Afi%C5%9F%20ve%20Davetiyeler/Programme%20Book.pdf)
46. M.T. Chaibi, 2017, Challenges and opportunities for implementing water resources management in North Africa, WSTA Twelfth Gulf water Conference and Exhibition 28-30 March 2017, Manama, Kingdom of Bahrain (http://www.gulfwaterconference.com/conference-program.php)
47. M.T.Chaibi, 2017; Role of Higher Education, Science and New Alliances – 2030 Agenda, Berlin, March 20-21, 2017
48. M.T. Chaibi, 2017, Towards Policy Implementation Tool for Renewable Energy Driven Desalination Systems in MENA Region, Twelfth International Dryland Conference “Sustainable Development of Dry lands in the post 2015 World”, 21-24 August 2016, Alexandria, Egypt
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52. 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
53. *Articles in proceedings/reports*
54. Sheryl L. Hendriks, Endashaw Bekele, Thameur Chaibi, Mohamed Hassan, Douglas W. Miano and John H. Muyonga, 2021, The Role of Science, Technology, and Innovation for Transforming Food Systems in Africa. United Nations Food Systems Summit 2021 Scientific Group Scientific Group (<https://bonndoc.ulb.uni-bonn.de/xmlui/handle/20.500.11811/9149>)
55. Participation the Global Sustainable Development Report 2019 regional consultation workshop for the Arab region, Amman, Jordan
56. Thameur Chaibi, 2015, Integrated Education Systems as a Basis for Global Transformation, Born Conference for Global Transformation, 12, 13 May 2015, Word Conference Center, Bonn, Germany
57. Haithem Bahri, Taoufik Hermesssi, Mohamed Annabi, Fakher Kembi, Roukaya Chibani, M. Thameur Chaibi, Justin van Wart and Haishun Yang, 2015, Relevance of Wheat Yield Gap Concept in Tunisia, Synergy in Science: Partnering for Solution , ASA.CSSA.SSSA 2015 meeting , November 15-18 Minneapolis , MN, USA
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60. Rabi Mohtar, BasselDaher, InsafMekki, Thameur Chaibi, Rim ZitounaChebbi, 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
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63. 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>
64. Chaibi M.T. 2011, Towards Tunisian Solar Plan, Solar Energy Experts workshop , August 2- 4 2012, The Energy Center (TEC), KNUST, Kumasi, Ghana
65. Chaibi, M.T., Bartholomé, E. 2009, The « GMES & Africa » process - State of play- , Geoland Forum, 12 May 2009, Berlin, Germany.
66. 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
67. Chaibi, 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.
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70. 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.
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75. 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.
76. Chaibi 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.
77. Bourouni, K. and Chaibi 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](http://www.adu-res.org).
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79. Chaibi, 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.
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81. Chaibi, M.T.,Chenini, F., Epp, C. and Tondi, G. 2004. Une approche intégrée pour la gestion durable des ressources en eau dans le basin méditerranéen, Colloque développement durable, Leçons et perspectives, Ouagadougou, Burkina Faso, 1 – 4 Juin 2004, tome 2, 139-146.
82. Bourouni, K. and Chaibi, 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.
83. Bourouni, K. and Chaibi 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.
84. 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.
85. Chaibi, M.T. and Jilar, T. 2003. Economy prospects for roof integrated water desalination in greenhouses. Solar Word Congress 2003, ISES, Götberg Suède, 13-19 Juin 2003.
86. 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, Götberg Sweden, 13-19 June 2003.
87. 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.
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89. Bourouni, K. Chaibi, M.T. and Tadrist, 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
90. Bourouni, K. Chaibi, M.T. and Tadrist, 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
91. 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
92. Bourouni, K., Chaibi M.T., Martin, R. and Tadrist, 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
93. Bourouni, K., Martin, R., Tadrist, 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.
94. 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.
95. 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.
96. 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
97. *International scientific editing*

-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,

* **EXTERNAL EVALUATION**

2022- present: Assessor of research grants funding by the Australian Research Council (ARC).

2021-2022 External expert to assist EACEA in the assessment of proposals for Erasmus+ Capacity Building in Higher Education (CBHE) action', The European Education and Culture Executive Agency (EACEA)

2017-2019-2020-2022 External evaluator of the Erasmus Mundus Joint Master Degrees (EMJMD) proposals within the frame of the EMJMD selection.

2020-2021. External evaluator for technical proposals submitted under the first call for proposals of the fellowship program UNA4CAREER,

2019-2020 External reviewer of the s Ph.D. & Postdoctoral Scholarship Programme for the A/Y 2019-20- under Islamic Development Bank (IsDB)

2018-2019- 2020: Independent evaluator to the project proposals submitted under the call for standard projects of the European Neighbourhood Instrument- Cross-Border Cooperation Program in the Mediterranean - ENI MED CBC –

2017-2019: External evaluator of the EU funded projects under the intra-Africa academic mobility scheme of the Education, Audiovisual and Culture executive Agency (EACEA).

2013-present: Member of the evaluation committee team for “Doctoral South" program, implemented by the IRD for the CIRAD –

2011-2012 Membership of expert evaluation to the scientific panel under the call FP6-2003-INCO- MPC-2, FP7-Africa-2010, and Environmental call of the FP7 Cooperation Specific Program, Horizon 2020, Brussels, Belgium.

2012: Member of the International Prize Committee for the Olusegun Obasanjo Prize in Scientific Discovery and/or technological innovation

2007: Evaluator of the 3rd ERANETMED call proposals on Fostering sustainable water management for the economic growth and sustainability of the Mediterranean region

2007-2008: Membership of expert evaluation to the Environmental Security panel under the NATO Science for Peace and security program

* **NETWORKS AND MEMBERSHIPS**

2022-current: Member of the expert group for the development of the policy briefs in support of the high level political forum 2022 on energy's interlinkages with other SDGs

2020- Current : Member of the World Academy of Sciences for the advancement of science in developing countries (TWAS) Independent Expert Committee (IEC) for the review of TWAS followship candidates in the field of Agricultural Sciences

2020 -Current: Member of the thesis and Habilitation Committee in Agronomic sciences -discipline “Rural Engineering, water and Forests”, University of Carthage.

2021-Current: Member of the selection committee for the post of professor in Agricultural Higher Education sciences, Minister of Higher Education and Scientific Research of Tunisia and Tunisian minister of agriculture.

2020- Current: Member of the African Academy of Sciences (AAS) Independent Expert Committee (IEC) for the review of AAS followship candidates in the field of Agricultural Sciences

2017 Member of a Dialogue on the Role of Higher Education, Science and New Alliances – 2030 Agenda, Berlin

2012: Member of the Founders committee of the Middle East and North Africa Network of Water Centres of excellence (MENA/ NWC) under the USAID-FABRI program

2012- Current: Member of the AAS Membership Advisory Committee in the broad area of Engineering Technology and Applied Sciences.

2011-2017: Member of the Board of Directors of the Middle East and North Africa Network of Water Centers of Excellence (MENA-NWC)

2011- 2013: Member of the Advisory group of the Word bank –African Center of Excellence (ACE)

2010 Member of the Task Force towards addressing the governance and institutional reforms of the Alliance for Accelerating Excellence in Science in Africa (AESA) - Institutional Review and Strengthening of the AESA Platform

2010 -2017: Member of the 2010-2017 African Academy of Sciences (AAS) Governing Council Governing Council member, (Regional representative North Africa)

2007- 2008: Associate member on the Environmental Security panel under the NATO Science for Peace and security program.

2000-Current: Member of the TWAS-ARO and TWAS ROSSA committees’ relevant to scientific, research and development programs in Arab countries and African sub-Saharan countries

1995- 2000: Corresponding member of the International Association for Solar Energy Education (IASEE) in Tunisia

1996-1998: Member in the active group of water resources management in the MENA region under the MED Campus program.

* **TEACHING EXPERIENCE**

***National Experience***

* 2007-2008/2012/2013 Higher School of Agriculture, Mograne, Zaghouan, department Natural Resources, lecture on “Renewable energies”. Taught weekly lectures, group work, provided student support
* Participation as a lecture in the international study abroad program in Tunis organised by Oregon State University (USA)

-recruitment and promotion committees for the rank of Senior Lecturer in Agricultural Higher Education for the 2021-2022

***International experience***

2019: Guest lecture to the PAUWES summer school course on “water, energy and food nexus” and desalination concepts for irrigation purposes

2013: Regional coordinator and development of the Master curricula on water sciences –Engineering and Governance- of the Pan African University of Tlemcen –Algeria (PAUWES)

2013- Current: External examiner of Phd and Msc thesis at several universities: University of Lulea University of Technology (Sweden), PAUWES, Azerbaijan National Academy

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.

2017: Expert member in strengthening higher education and science to generate ideas how to achieve sustainable development – Agenda 2030- (BMZ, Alexander von Humboldt Foundation, DAAD, GIZ GmbH, and KfW Development Bank.