# CURRICULUM VITAE

# CV

**Nom et Prénom :** .....**BOUBEKRI ABDELGHANI**

**Dernier Diplôme et date d'obtention :** .....Doctorat d'état (Juillet 2010)

**Spécialité :** .....Génie mécanique

**Grade :** .....Professeur

**Fonction :** .....Enseignant chercheur

**Etablissement de rattachement :** .....Université Kasdi Merbah Ouargla

**Tel/fax :** .....

**Mail :** .....boubekri.abdelghani@univ-ouargla.dz

**Domaines d'intérêts scientifique:** Thermique solaire ; Séchage industriel ; Séchage solaire ; Méthodologie

**Indiquer les publications réalisées durant les cinq (05) dernières années :**

## Publications internationales

1. Messaoud Sandali, **Abdelghani Boubekri**, Abderrahmane Benhamza, Belkhir Settou, Daoud Halassa, and Djamel Mennouche. A simulation study of a solar collector using phase change materials for air heating application needs. **AIP Conference Proceedings** 1814, 020010-1–020010-11; (**2017**).
2. Djamel Mennouche, **Abdelghani Boubekri**, Samira Chouicha, Bachir Bouchekima. Hamza Bouguettaia . Solar drying process to obtain high standard "deglet-nour" date fruit. **J Food Process Eng. 2017**; 12546. (2017)
3. Messaoud Sandali, **Abdelghani Boubekri**, Djamel Mennouche, Noureddine Gherraf Improvement of a direct solar dryer performance using a geothermal water heat exchanger as supplementary energetic supply. An experimental investigation and simulation study. **Renewable Energy** 135 (**2019**) 186-196.

4. Messaoud Sandali, **Abdelghani Boubekri**, Djamel Mennouche, Improvement of the thermal performance of solar drying systems using different techniques: a review, **Journal of Solar Energy Engineering** 141 (5) (**2019**)

5. Halassa, D. ., Announ, M. ., **Boubekri, . A.**, Mennouche, . D. and Bouguettaia, H. . (**2020**) "Effect of Solar Air Flat Plate Collector Geometric Parameters on The Thermal Behavior Inside an Indirect Solar Drier", **Journal of Advanced Research in Fluid Mechanics and Thermal Sciences**, 61(2), pp. 233–247

6. Hadibi Tarik, **Boubekri Abdelghani**, Mennouche Djamel et al. Experimental investigation and mathematical modeling of hot air convective drying of tomato paste under near solar drying operating conditions. **Algerian Journal of Arid Environment "AJAE" 2020**; http://dspace.univ-uargla.dz/jspui/handle/123456789/24377.

7. Benhamza, A., **Boubekri, A.**, Atia, A., El Ferouali, H., Hadibi, T., Arıcı, M., & Abdenouri, N. (**2021**). Multi-objective design optimization of solar air heater for food drying based on energy, exergy and improvement potential. **Renewable Energy**. 169, 1190-1209, doi:https://doi.org/10.1016/j.renene.2021.01.086

8. T Hadibi, **A Boubekri**, D Mennouche, A Benhamza, N Abdenouri, (**2021**). 3E analysis and mathematical modelling of garlic drying process in a hybrid solar-electric dryer, **Renewable Energy** 170, 1052-1069

9. T Hadibi, **A Boubekri**, D Mennouche, A Benhamza, C Besombes, K Allaf, (**2021**) Solar–geothermal drying/instant controlled pressure drop-swell drying of mechanically dewatered tomato paste, **Journal of Food Process Engineering** 44 (10), e13811

10. T Hadibi, **A Boubekri**, D Mennouche, A Benhamza, A Kumar, (**2021**), Economic analysis and drying kinetics of geothermal-assisted solar dryer for tomato paste drying, **Journal of the Science of Food and Agriculture** (https://doi.org/10.1002/jsfa.11326)

11. Hadibi Tarik, **Boubekri Abdelghani**, Mennouche Djamel et al. : Effect of ventilated solar-geothermal drying on 3E (exergy, energy, and economic analysis), and quality attributes of tomato paste. **Energy 2021**. https://doi.org/10.1016/j.energy.2021.122764

12. Benhamza Abderrahmane, **Boubekri Abdelghani**, Attia Abdelmalek, Hadibi Tarik et al. : Drying uniformity analysis of an indirect solar dryer based on computational fluid dynamics and image processing: A CFD based study, **Sustainable Energy Technologies and Assessments 2021**. https://doi.org/10.1016/j.seta.2021.101466.

13. T Hadibi, **A Boubekri**, D Mennouche, A Benhamza, K Mazouzi, A Kumar, K Allaf, Energy, environmental, economic, and color analysis of geo-exchange energy assisted-insulated north wall solar dryer for onion slices under relatively cloudy and rainy conditions, ***Solar Energy*** 236, 1-16, DOI:10.1016/j.solener.**2022**.02.037

## Communications internationales

14. **D. Mennouche**, A. Khenblouche, **A. Boubekri**, B. Bouchekima, S. Boughali, M.Lati Etude expérimental d'un nouveau procédé de séchage solaire destiné pour le séchage de la pâte de tomate. International Conference on Green Energy and Environmental Engineering (GEEE-**2017**). Sousse-Tunisia.

15. Messaoud Sandali, **Abdelghani Boubekri**, **Djamel Mennouche**. Numerical Study of the Thermal Performance of a Direct Solar Dryer with Integrated Geothermal Water Heat Exchanger. International Conference on Green Energy and Environmental Engineering (GEEE-**2017**). Sousse-Tunisia.

16. Mohamed Hafed Berrbeuh, Samira Chouicha, **Abdelghani Boubekri**, **Djamel Mennouche**. Etude expérimentale du séchage solaire des grains de fève sous conditions constantes. 6$^{éme}$ Séminaire Maghrébin sur les sciences et les technologies de séchage – Tunisie (SMSTS **2018**), Du 19 au 21 Mars 2018.

17. Tarik Hadibi, **Djamel Mennouche**, **Abdelghani Boubekri**. Experimental study and mathematical modeling of tomatoes thin layer drying using a basic indirect solar dryer. 6éme Séminaire Maghrébin sur les sciences et les technologies de séchage – Tunisie (SMSTS **2018**), Du 19 au 21 Mars 2018.

18. **Djamel Mennouche** , **Abdelghani Boubekri**, Bachir Bouchekima, Slimane Boughali, Karatta Aicha, Goubi Radja :Effect of drying temperature on Lycopene content of tomato peel powder. 6éme Séminaire Maghrébin sur les sciences et les technologies de séchage – Tunisie (SMSTS **2018**), Du 19 au 21 Mars 2018.

19. Messaoud Sandali, **Abdelghani Boubekri** and **Djamel Mennouche**. Thermal behavior modeling of a cabinet direct solar dryer as influenced by sensible heat storage in a fractured porous medium. TMREES18//Beirut-Lebanon - February 01 to 03, **2018**.

20. **Djamel Mennouche** , **Abdelghani Boubekri**, Bachir Bouchekima Slimane Boughali, Chafou Noura, Khabbar Omnia ÉTUDE EXPÉRIMENTALE DU SÉCHAGE SOLAIRE HYBRIDE DES TRANCHES DE TOMATE 1ème Séminaire sur les Energies renouvelables et l'Environnement-24 et 25 Avril **2018**.

21. **Mennouche, D**, **Boubekri, A**, Bouchekima, B , Boughali, S. Moumeni, R , Boutadjine, D.Valorization of the tomato to obtain a powder rich in antioxidant constituents, IDS'2018 – 21st International Drying SymposiumValència, Spain, 11-14 September **2018**.

22. Chouicha, S.; **Boubekri, A**; Berbeuh, M. H; **Mennouche, D**; Frihi, I; Rzezga. A Post-harvest treatment of algerian broad beans using two different solar drying methods. . **IDS'2018** – 21st International Drying SymposiumValència, Spain, 11-14 September 2018.

23. B. Bouchekima, **D. Mennouche**, **A. Boubekri**, S. Boughali, K. Maatallah, R.Terea. Traitement thermique des boues des stations d'épuration urbaine par le procédé de séchage solaire direct. La première rencontre Maghrébine sur le changement climatique et les sources alternatives en eau et énergie– Tunisie, Du 28 au 28 septembre **2018**.

24. Messaoud Sandali, **Abdelghani Boubekri**, Said Mansouri, Bachir Zengui, Belkhir Settou et **Djamel Mennouche**. Etude de l'effet de l'intégration d'une couche MCP sur les performances d'un séchoir solaire direct. The 5th International Seminar on New and Renewable Energies. Unité de Recherche Appliquée en Energies Renouvelables, Ghardaïa – Algeria 24 - 25 Octobre **2018**.

25. BENHAMZA Abderrahmane, **BOUBEKRI Abdelghani**, ATIA Abdelmalek, HALIMI Soufiane, MOUISSI Fares Medjdi, **MENNOUCHE Djamel**. Optimized parameters of an air solar collector for drying applications using the experimental design method (DOE). International Symposium on Mechatronics & Renewable Energies (**ISMRE'2018**).

26. A. Benhamza, **A. Boubekri**, A. ATIA, S. HALIMI, F. M. MOUISSI, D. MENNOUCHE., 'Optimized parameters of an air solar collector for drying applications using the experimental design method (DOE)', International Symposium on Mechatronics & Renewable Energies, **ISMRE'2018**, 2018 , Eloued, Algeria.

27. Hadibi Tarik, **Boubekri Abdelghani**, **Mennouche Djamel**, Soufien Azzouz, Boubekri Abderrahim, Hadji Abdelmadjid. Hot air convective drying of tomato paste as optimized by the experimental design method. International Symposium on Technology & Sustainable Industry Development, **ISTSID'2019** EL OUED, Algeria, 24-26 February 2019.

28. Hadibi Tarik, **Boubekri Abdelghani**, Mennouche Djamel et al. : Effect of instant controlled pressure drop process coupled to solar drying on tomato paste drying kinetics, 7 th Maghreb Seminar on Drying Sciences and Technologies (SMSTS), **2019**, Morocco.

29. Hadibi Tarik, **Boubekri Abdelghani**, Mennouche Djamel et al. : Experimental comparison and mathematical modeling of tomato paste direct solar drying under passive and active mode, 7 th Maghreb Seminar on Drying Sciences and Technologies (SMSTS), **2019**, Morocco.

30. A. Benhamza, **A. BOUBEKRI**, A. ATIA, A. Mecheri, A. Kouici., 'Study and experimental validation of a CFD model used to predict the thermal and dynamic behaviour of an indirect solar dryer', 7th Maghreb Seminar on Drying Sciences and Technologies, SMSTS'2019 , November 2019 , Marrakech, Maroc.

31. A. Benhamza, **A. BOUBEKRI**, A. ATIA, A. Mecheri, A. Kouici., ' Enheancement of air drying uniformity in solar dryers using CFD', International Pluridisciplinary PhD Meeting, IPPM'20 , February 23-26, 2020, Eloued, Algeria.

32. H. Belahya, **A. Boubekri**, R. Belarbi and R. Zaide, "Optimization Design Envelope for Building in Hot Climate Using Design of Experiment and Life Cycle Cost," *2021 International Conference on Advanced Technology of Electrical Engineering and Energy* ***(ATEEE),*** **2021**, pp. 81-86, doi: 10.1109/ATEEE54283.2021.00024.