

# CURRICULUM VITAE



## PERSONAL INFORMATION

Name : **Diaeldin Omer Mohamed Elkhair Abdelkarim**

Gender : Male

Nationality : Sudanese

Date of Birth : August 6<sup>th</sup>, 1959

Place of Birth : Berber (River Nile State), Sudan

Social Status : Married with 3 children

Position : Assistant Professor

Major : Agricultural Engineering

Minor : Agricultural Process Engineering

Current Postal Address : Chair of Dates Industry & Technology,  
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## **EDUCATIONAL QUALIFICATIONS**

<b>Degree</b>	<b>Date</b>	<b>University</b>	<b>CGPA</b>
Ph.D. (Agricultural Processing Engineering)	Feb., 2007	Tamil Nadu Agricultural University, Coimbatore, India	9.09/10.00
M. Tech ( Agricultural Engineering) in Agricultural Processing Engineering, First class	July, 2001	Mahatma Phule Krishi Vidyapeeth, Rahuri, India	8.07/10.00
I was awarded the <b>JINDAL GOLD MEDAL</b> for securing highest marks at the M. Tech (Agricultural Engineering) degree examination in the year 2001			
B.Sc.( Eng.) in Agricultural Engineering, First Class	Sept.,1983	University of Khartoum, Khartoum, Sudan	7.1/10.0

## **CAREER HISTORY AND EXPERIENCES**

- 2012 - date** : Assistant Professor, Chair of Dates Industry & Technology , Dept. of Agric. Eng., , College of Food & Agricultural Sciences , King Saud University, Riyadh, (Saudi Arabia).
- 2007 - 2012** : Assistant Professor, Department of Agricultural Engineering, Faculty of Engineering , University of Khartoum , (Sudan)
- 2003 - 2007** : On study leave for Ph.D. (Agric. Process Eng.) in India
- 2001 - 2003** : Lecturer, Department of Agricultural Engineering, Faculty of Engineering , University of Khartoum, (Sudan)
- 1999 - 2001** : On study leave for M. tech. (Agric. Process Eng.) in India
- 1987-1999** : Teaching Assistant, Department of Agricultural Engineering, Faculty of Engineering, University of Khartoum, (Sudan)
- 1985-1987** : Agricultural Engineer, Northern Agricultural Corporation, ELDAMER, Sudan
- 1983-1985** : Agricultural Engineer, Mechanized Farming Corporation, Gedarif, Sudan

## **CONFERENCES:**

1. The 29<sup>th</sup> annual meeting of the Saudi Biological Society in collaboration with the University of Dammam and Prince Sultan Research Chair for Environment and Wildlife under the title "Environment and development in the Gulf region" which was held during 25- 27 February 2014 in Dammam, Saudi Arabia.
2. The second Saudi International conference on Information Technology, KACSTIT 2013, which was held during 18 - 19 November 2013 at KACST headquarters – Conference Hall – Building 36 – King Abdullah road – Riyadh, Kingdom of Saudi Arabia.
3. The Seventh Conference of the Saudi Society of Agricultural Sciences (KSU) under the title: "Agriculture and food security challenges for the GCC countries," which was held during 7-9 May 2013 in Hail, Saudi Arabia.
4. The fifth International Conference on Water Resources & Arid Environments (ICWRAE 5) which was held during 7-9 January 2013 at King Saud University in Riyadh, Saudi Arabia.
5. The 38<sup>th</sup> Scientific Meeting of the Saudi Society of Agricultural Sciences (invasive plants), which was held on 17 December 2012 at the College of Food Sciences & Agriculture, King Saud University, Riyadh, Kingdom of Saudi Arabia.
6. The first International Conference on Assessment & Evaluation, which was held during 02-04 December 2012 at The National Center for Assessment in Higher Education, King Faisal Conferences Hall - Riyadh Intercontinental hotel, Riyadh, Kingdom of Saudi Arabia.
7. The second Saudi International Nanotechnology Conference (2SINC) 2012, which was held during 11 - 13 November 2012 at KACST headquarters – Conference Hall – Building 36 – King Abdullah road – Riyadh, Kingdom of Saudi Arabia.
8. The 40<sup>th</sup> Annual Convection & Symposium of Indian Society of Agricultural Engineers, which was held in January 2006 at the Agricultural Engineering College & Research Institute, T.N.A.U., Coimbatore, India.
9. The National Seminar on "Post Production Systems & Strategies to the Issues and Challenges of Food Safety and Security" which was held during 22-23 September 2005 at Tamil Nadu Agricultural University, Coimbatore, India.
10. The 18<sup>th</sup> National Convection of Agricultural Engineers & National Seminar on "Role of Agricultural Engineers in Development of Cash Crops" held during 26 -27 March 2005 at Tamil Nadu Agricultural University, Coimbatore (India).

## **TRAINING PROGRAMS, WORKSHOPS AND TUTORIALS:**

1. Workshop on "Nanotechnology from concept to application" held on 13 November 2012 at The 2nd Saudi International Nanotechnology Conference (2SINC) 2012, King Abdulaziz City for Science & Technology Headquarters - Conference Hall - Building 36 – King Abdulla road – Riyadh, Kingdom of Saudi Arabia.
2. The National Plan for Science, Technology & Innovation workshop under the title “Towards Distinguished Outcomes for The National Plan Projects” organized by King Saud University (KSU) in collaboration with King Abdulaziz City for Science & Technology (KACST) on 02 March 2013.
3. A training program in: research projects and grants proposals writing held at King Saud University during the period of 16 –17 /3/2013 for a total of 10 training hours.
4. A training program in: scientific publishing in international periodicals held at King Saud University during the period of 18 –19 /3/2013 for a total of 10 training hours.
5. “Cloud Computing Tutorial” at the second Saudi International conference on Information Technology, KACSTIT 2013 held on 17 November 2013 at KACST headquarters – Conference Hall – Building 36 – King Abdullah road – Riyadh, Kingdom of Saudi Arabia.
6. “High Performance Computing Tutorial” at the second Saudi International conference on Information Technology, KACSTIT 2013 held on 17 November 2013 at KACST headquarters – Conference Hall – Building 36 – King Abdullah road – Riyadh, Kingdom of Saudi Arabia.
7. “Machine Learning Tutorial” at the second Saudi International conference on Information Technology, KACSTIT 2013 held on 17 & 20 November 2013 at KACST headquarters – Conference Hall – Building 36 – King Abdullah road – Riyadh, Kingdom of Saudi Arabia.
8. “Cyber Security Tutorial” at the second Saudi International conference on Information Technology, KACSTIT 2013 held on 20 November 2013 at KACST headquarters – Conference Hall – Building 36 – King Abdullah road – Riyadh, Kingdom of Saudi Arabia.

9. “Wireless Networks Tutorial” at the second Saudi International conference on Information Technology, KACSTIT 2013 on 20 November 2013 at KACST headquarters – Conference Hall – Building 36 – King Abdullah road – Riyadh, Kingdom of Saudi Arabia.

## **RESEARCHES:**

### **Published papers:**

1. Younis, M., **D. Abdelkarim** and A. Zein El-Abdein (2017). Kinetics and mathematical modeling of infrared thin-layer drying of garlic slices. Saudi Journal of Biological Sciences, doi.org/10.1016/j.sjbs.2017.06.011.
2. Alhamdan, A., B. Hassan, H. Alkahtani, M. Younis, and **D. Abdelkarim**. (2016). Quality changes in fresh date fruits (Barhi) during individual quick freezing and conventional slow freezing. Pak. J. Agri. Sci., Vol. 53(4), 917-924.
3. Alhamdan, A., **D. Abdelkarim** and A. Atia (2016). Textural properties of date pastes as influenced by date cultivar. IMPACT: International Journal of Research in Applied, Natural and Social Sciences Vol. 4, Issue 5, 99-106.
4. Alhamdan, A., B. Hassan, H. Alkahtani, **D. Abdelkarim** and M. Younis. (2016). Freezing of fresh Barhi dates for quality preservation during frozen storage. Saudi Journal of Biological Sciences, doi: 10.1016/j.sjbs.2016.02.003.
5. Alhamdan, A., B. Hassan, H. Alkahtani, **D. Abdelkarim** and M. Younis. (2015). Cryogenic freezing of fresh date fruits for quality preservation during frozen storage. Journal of the Saudi Society of Agricultural Sciences, doi: 10.1016/j.jssas.2015.12.001.
6. Alhamdan A., **D. O. Elkhair** and K. A. Ehmed. (2015). Modeling of respiration rate of fresh date fruits (*Barhi Cultivar*) under aerobic conditions. Journal of Advanced Agricultural Technologies Vol. 2, No. 3, 120- 124.
7. Alhamdan A., H. Sorour, **D. Abdelkarim** and M. Younis (2014). Viscoelasticity of the Bulk Quantities of Eight Saudi Date Cultivars. Acta Advances in Agricultural Sciences (AAAS) Journal, Vol. 2, Issue 6, 01-10.
8. Alhamdan A., H. Sorour, M. Younis and **D. Abdelkarim** (2014). The mechanical properties of different cultivars dates at three maturity stages. IMPACT: International Journal of Research in Engineering & Technology, Vol. 2, Issue 3, 51-60.
9. Alhamdan A., H. Sorour, **D. Abdelkarim** and M. A. Younis (2014). Creep-

Recovery Behavior for eight Dates Cultivars at Two Different Maturity Stages. *IMPACT: International Journal of Research in Engineering & Technology*, Vol. 2, Issue 3, 73-80.

10. Alhamdan A., H. Sorour, **D. Abdelkarim** and M. A. Younis (2014). Texture profile analysis of date flesh for some Saudi date cultivars. *International Journal of General Engineering and Technology (IJGET)*, Vol. 3, Issue 3, 1-10.
11. Alhamdan A., H. Sorour, M. A. Younis and **D. Abdelkarim** (2014). Evaluating the viscoelastic of Barhi dates at three maturity stages. *Global Journal of Biology, Agriculture & Health Sciences*, Vol. 3(1): 168-173.
12. **Elkhair D.O.M.**, P.A. Unde and G.H. More (2004). Studies on distribution of lateral grain pressures in Polyethylene containers, *Journal of Maharashtra Agricultural Universities*, 29(1):064-068.
13. **Elkhair D.O.M.**, P.A. Unde and G.H. More (2002). Prediction of lateral grain pressures in flexible containers, *Journal of Agricultural Engineering*, Vol. 39(2):15-20.

#### **Papers presented at conferences:**

1. Alhamdan A.M., H.H. Bakri, H.M. Sorour, **D. O. Abdelkarim** and K.A.M. Ahmed. (2013). Creep-Recovery for eight date cultivars at two different maturity stages. The seventh Conference of the Saudi Society of Agricultural Sciences (KSU) under the title: "Agriculture and food security challenges for the GCC countries," held during 7-9 May in Hail, Saudi Arabia.
2. Alhamdan A.M., H.H. Bakri, H.M. Sorour, M.A. Younis, and **D. O. Abdelkarim** (2013). Effect of Maturity Stages on the Stress Relaxation of Four cultivars of Dates. Seventh Conference of the Saudi Society of Agricultural Sciences (KSU) under the title: "Agriculture and food security challenges for the GCC countries," held in Hail, Saudi Arabia on May 7-9, 2013.
3. Alhamdan A.M., H.M. Sorour, **D. O. Abdelkarim** and M.A. Younis (2014). Effect of stage of maturity on stress relaxation of bulk dates of some Saudi date cultivars (Poster Presentation). The 29<sup>th</sup> annual meeting of the Saudi Biological Society in collaboration with the University of Dammam and Prince Sultan Research Chair for Environment and Wildlife under the title "Environment and development in the Gulf region" which was held during 25- 27 February 2014 in Dammam, Saudi Arabia.
4. Alhamdan A.M., H.H. Bakri, H.M. Sorour, M.A. Younis and **D. O. Abdelkarim** (2014). The Mechanical properties of Barhi Dates at different maturity stages (Poster Presentation). The 29<sup>th</sup> annual meeting of the Saudi Biological Society in collaboration with the University of Dammam and Prince Sultan Research Chair

for Environment and Wildlife under the title “Environment and development in the Gulf region” which was held during 25- 27 February 2014 in Dammam, Saudi Arabia.

5. **Elkhair D.O.M.**, R. Suma and M. Ramanathan (2005) Solar tunnel type greenhouse dryer for turmeric, National Seminar on Post Production Systems & Strategies to the Issues and Challenges of Food Safety And Security which was held during 22-23 September 2005 at the Agricultural Engineering College& Research Institute, T.N.A.U., Coimbatore (India).