

# Resume

**Bandar Mousa Alfaifi, PhD.**

**Assistant Professor**

## Personal information

- **Date of birth:** August 26, 1977
- **Nationality:** Saudi
- **Address:** King Saud University  
Collage of Food and Agricultural Sciences  
Agricultural Engineering Department  
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## Specialization

- **Major:** Engineering Science
- **Minor:** Food Process Engineering

## Education

- **Ph.D.**  
Engineering Science – Food Process Engineering  
Washington State University, USA  
May, 2013
- **B.Sc.**  
Agricultural Science – Agricultural Engineering  
King Saud University, KSA  
June, 1999

## Area of Interest

- Engineering properties of food materials
- Microwave and RF heating and drying
- Nonchemical disinfections of food materials based on electromagnetic energy
- Computer simulation of heat and mass transfer in food process applications
- Electromagnetic energy based food process development using computer simulation models

## Languages

- Arabic
- English

## Professional experience

- **Assistant Professor**  
Department of Agricultural Engineering, Collage of Food and Agricultural Sciences, King Saud University from 06/10/2013 to date
- **Teaching Assistant**  
Department of Agricultural Engineering, Collage of Food and Agricultural Sciences, King Saud University from 22/12/2001 to date
- **Sales engineer**  
Department of Agricultural Engineering, Collage of Food and Agricultural Sciences, King Saud University from 22/12/1999 to 22/12/2001

## Professional memberships

- **The International Microwave Power Institute (IMPI)**
- **The Institute of Food Technologists (IFT)**

## Courses taught

- **Undergraduate**
  - AGEN 201 Principles of Agricultural Engineering
  - AGEN 320 Principles of Food Engineering

## Publications

- **Referred journals**
  - Alfaifi, B., Tang, J., Wang, S., Rasco, B., & Sablani, S. (2013). Computer simulation analyses to improve radio frequency (RF) heating uniformity in dried fruit for insect control. To be submitted to the International Journal of Heat and Mass Transfer.
  - Alfaifi, B., Tang, J., Jiao, Y., Wang, S., Rasco, B., Jiao, S., & Sablani, S. (2014). Radio frequency disinfestation treatments for dried fruit: Model development and validation. Journal of Food Engineering. 120: 268-276.
  - Alfaifi, B., Wang, S., Tang, J., Rasco, B., Sablani, & S., Jiao, Y. (2013). Radio frequency disinfestation treatments for dried fruit: Dielectric properties. LWT-Food Science and Technology, 50:746-754.

## **Conferences and workshops**

### ▪ **Conferences**

- Alfaifi, B., Wang, S., & Tang, J. 2011. Dielectric properties of dried fruits relevant to radio frequency and microwave disinfestation treatments. Proceedings of 2011 IMPI 45th Annual Microwave Power Symposium, June 8–10, 2011, New Orleans, LA, USA.
- Alfaifi, B., Wang, S., & Tang, J. 2010. Developing postharvest disinfestations treatments of dried fruits using radio frequency energy. Proceedings of 2010 IMPI 44th Annual Microwave Power Symposium, July 14–16, 2010, Denver, Colorado, USA.

### ▪ **Workshops**

- Smart Classes, KSU, Riyadh, Feb. 2014.
- Course Design and Construction, KSU, Riyadh, Dec. 2013.
- Effective Teaching, KSU, Riyadh, Dec. 2013.
- Assessment of Learning Outcomes, KSU, Riyadh, Dec. 2013.
- Microteaching, KSU, Riyadh, Dec. 2013.
- Effective College Teaching, KSU, Riyadh, Nov. 2013.
- Becoming a Master Teacher, KSU, Riyadh, Sep. 2013.
- Food Agricultural Practices (FAP), April 2013, Extension, Washington State University, Pullman, USA.
- Graduate Grant Writing Workshop, October 2012, Office of Grant and Research Development, Washington State University, Pullman, USA.
- Principles of Good Laboratory Practices (PGLP), May 2012, Pacific Rim Consulting, Inc., Pullman, USA.
- Hazard Analysis Critical Control Point (HACCP), March 2011, School of Food Science, Washington State University, Pullman, USA.

## **University and community**

- One of the founder of the Saudi Club at WSU (2012)
- Member of the Food Engineering Club at WSU (2011-2013)
- Executive officer of the Muslims Students Association (MSA) at WSU (2012)
- Ambassador of the Biological System Engineering Department at WSU (2007)
- Secretary of the Pullman Islamic Center (PIC) in Pullman (2006)
- Ambassador of the intensive American Language Center (IALC) at WSU (2005-2013)