

DR. ALOTHMANY, Dheya

Associate Professor, Nuclear Engineering Dept., King Abdulaziz University

Education

| <i>Degree</i> | <i>Field</i> | <i>Institution</i> | <i>Year</i> |
|---------------|----------------------|------------------------------|-------------|
| PhD | Radiation Protection | University of Aberdeen, UK | 1995 |
| MS | Health Physics | University of Missouri - USA | 1987 |
| BS | Nuclear Engineering | Iowa State University - USA | 1984 |

Academic Experience

| <i>From</i> | <i>To</i> | <i>Institution</i> | <i>Rank</i> | <i>Title (Chair, Coordinator, etc.)</i> | <i>Full or Part Time</i> |
|-------------|-----------|----------------------|---------------------|---|--------------------------|
| 1996 | 2014 | King Abdulaziz Univ. | Assistant Professor | | Full Time |
| 2014 | 2020 | King Abdulaziz Univ. | Associate Professor | | Full Time |

Certifications and Professional Registrations

Registered Professional Engineer in Egypt

Current Membership in Professional Societies and Organizations

| | <i>Society/organization</i> | <i>Rank</i> | <i>Member Since</i> |
|----|---|-------------|---------------------|
| 1. | Membership for the Saudi Engineering Council-Nuclear Engineering Sec | Member | 2018 |
| 2. | Local Chapter of ANS in the department Nuclear engineering | Member | 2013 |
| 3. | Board of Directors of the Cooperative Association for the University Employees, | Member | 2003 |
| 4. | IEEE Section of West of Saudi Arabia, Region | Member | 2003 |
| 5. | Nuclear Power Engineering Committee, NPEC | Member | 2003 |
| 6. | Electric Power PES | Member | 2010 |
| 7. | Medical Physicists and Engineers in Britain | Member | 2002 |

Honors and Awards

1. Research productivity award, comsats university, Islamabad, (2013).
2. Research productivity award, Kyung Hee university, south Korea 2014

Services Activities (*within and outside the institution*)

1. Academic advisor, of King Abdulaziz university, 2014-present
2. Academic advisor, of COMSATS university, 2014-present

Principal Publications/Presentations from the Past Five Years

1. Ali, jolly Jacobe, Arslan Ashfaq, M. Tamseel, Kmehmood, N. Amin, S Hussain. W. Ahmed, Urehman, S. Ikram, Dheya Shujaa Al-othmany, 2019. Modulation of Structure, Optical and thermoelectric properties of sol-gel growing CZTS thin films by controlling the concentration of zinc. *Ceramics international*. 45, 12820-12824.
2. Dheya Shujaa Al-othmany, 2019., Design of a nuclear desalination system- an abundant source of fresh water., *Asvance in Physics theories and Applications.*, 77, 1-9.
3. Ahmad Hussain, Dheya Al-Othmany "Assessment of Aging of Zr-2.5Nb Pressure Tubes for Use in Heavy Water Reactor, *J. Natural Sciences Research*. ISSN 2224-3186 (Paper), ISSN 2225-0921 (Online), Vol. 3, No 2. PP.98-103, IF 5.58
4. Samir Abdul-Majid, Ahmed Balaamesh, Dheya Al-Othmany, Ahmed Alassiaa, Hussein Al-Huraibi, "Corrosion Imaging & Thickness Determination Using Micro-Curie Radiation Sources Based on Gamma Ray Backscattering: Experiments & MCNP Simulation", *J. Research in Nondestructive Evaluation*; Vol:26, pp:43-59; 2015, # 1, DOI:10.1080/09349847.2014.967899, by Taylor & Francis Inc
5. Dheya Al-Othmany, Ahmad Hussain, Essam Banoqitah (2015),"High-Level Radioactive Waste Storage Feasibility for the Kingdom of Saudi Arabia", *Arabian Journal Science and Engineering*, Jan. 2015, Vol. 40, pp 195-203, 1st online: 20 Nov. 2014. DOI 10.1007/s13369-014-1503-y.
6. Amber Anjum, Dheya Al-Othmany, Ahmad Hussain,"Generalization of Individual Differences in Second Language Learning", *J. Education and Practice*, ISSN 2222-1735 (Paper) ISSN 2222-288X (Online), 2015 Vol. 6. No. 29, pp: 170-177.
7. Yasmin Nergis, Mughal Sahrif, Dheya Al-Othmany, Ahmad Hussain, "Ecosystem Approach and Hydrological Potential Study of Port Qasim Industrial Coastal Zone of Karachi Pakistan". *J. of Civil and Environmental Research*, ISSN (Paper) 2224-5790, ISSN (Online) 2225-0514. Vol.8, No.2, 2016
8. Nazeeh Alothmany, Nurul Islam Molla, Abdelhamid Saoudi, Noor Mail, Dheya Al-Othmany, Muhammad Yusuf, Mawya Khafaji, Hattan Natto, Muhammed Tayeb, Fuad Nadwi, Ahmed Jiman, Abdurraheem Kinsara "Characterization of Optically Stimulated Luminescence for Assessment of Breast Doses in Mammography Screening" *Radioprotection j.* (<http://www.radioprotection.org/>). 2016 51(1), pp.51-58.
9. Syed Murtuza Mehdi, Maaz Akhtar, Ahmad Hussain, Dheya Al-Othmany, and Shahid Aziz "CFD Study of Liquid Sodium Inside a Wavy Tube for Laminar Convertors; Effect of Reynolds Number, Wave Pitch, and Apply Wave Amplitude". *Hindawi Publishing Corporation, Mathematical Problems in Engineering*. Vol. 2016, Article ID 6146195, pp 1-7, <http://dx.doi.org/10.1155/2016/6146195>.
10. Syed Murtazz Mehdi, Maaz Akhtar, Ahmad Hussain, Dheya Shujaa Alothmany, Kyung-Hyun Choi "Electromechanical Response of Dip-coated Silver Films on Micro Bumpy Polymer Surface" *Arabian j. for Science and Engineering*, May 2017, Vol. 42, Issue 5, pp 1903-1908.
11. Sherif S. Nafee, Dheya Alothmany, Safia H. Q. Hamidalddin, J.H. Alzahrani, W.R. Alharbi, Hanan M. Barshed, "Measurement of Gamma Emitting radionuclides for Assessment, Environmental Hazards of radiation in rock and soil Samples of Shabwah and Hadramout Regions, Yemen". *J. of geosciences and Environmenal Protection*, 2017, 5, 66-75, <http://www.scrip.org/journal/geo>, ISSN: 2327-4344.
12. Syed Murtazz Mehdi, Maaz Akhtar, Ahmad Hussain, Muhammad Nauman, Dheya Shujaa Alothmany, Iqbal Ahmad and Kyung-Hyun Choi, "Dip Coated Stretchable and Bendable PEDOTPSS Films on Low Modules Micro-Bumpy PDMS Substrate" *J. Polym Engineering*, August 2017 <https://doi.org/10.1515/polyeng-2017-0081>

Recent Professional Development Activities (*Workshops, training, etc.*)

1. 43rd Nathia Gali summer college 2013, Islamabad, Pakistan
2. 23 IBCAST, 2014, Islamabad Pakistan
3. ScienceDirect Database workshop KAU Library, Nov 2015
4. 48th Nathia Gali Summer college 2015, Islamabad Pakistan

