

## **DR. XOBI, Ned**

*Associate professor, Nuclear Engineering Dept., King Abdulaziz University*

### **Education**

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
PhD	Nuclear Engineering	University of Cincinnati, USA	2005
MSc	Nuclear Engineering	University of Cincinnati, USA	2004
BSc	Nuclear Engineering	University of Wisconsin-Madison, 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>
2017	Date	King Abdulaziz Univ.	Assoc. Professor		Full Time
2014	2017	King Abdulaziz Univ.	Assistant Professor		Full Time
2007	2008	Nuclear Engineering Department, JUST University	Chairman	Department Chair	Full Time
2007	2011	University of Science and Technology, Jordan	Assistant Professor		Full Time
2003	2004	Tuskegee University, USA	Instructor		Part time
2002	2005	University of Cincinnati, USA	Teaching Assistant		Part time

### **Non Academic Experience (including Consultations)**

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position Description (Brief)</i>	<i>Full or Part Time</i>
2012	2014	Petra Engineering Company	Director	R&D Director	Full Time
2008	2012	Jordan Atomic Energy Commission	Commissioner	Nuclear Fuel Cycle	Full Time
2008	2011	JRTR Research Reactor	Director	Project Director	Full Time
2008	2009	Jordan Energy Resources Inc	DG	Director General	Full Time
2006	2007	Jordan Nuclear Energy Commission	Sr. Nuclear Researcher	Nuclear Research and Development	Full Time
2006	2006	Washington Safety Management Solutions LLC	Sr. Nuclear Engineer	Criticality Research	Full Time
2004	2006	Oak Ridge National Laboratory (ORNL)	Nuclear Researcher	High Flux Isotope Reactor (HFIR)	Full Time

### **Current Membership in Professional Societies and Organizations**

	<i>Society/organization</i>	<i>Rank</i>	<i>Member Since</i>
1.	American Nuclear Society	Senior Member	1982
2.	American Society of Engineering Education, ASEE	Member	2016

### **Honors and Awards**

1. Medal of Independence (Wesam Al-Isteklal), bestowed by HM King Abdullah II, 2007
2. Best Paper Award, American Nuclear Society, 2006
3. University Research Council Summer Research Fellowship, 2005

4. National Academy for Nuclear Training (NANT) Fellowship,

### **Service Activities** (*within and outside of the institution*)

1. Member, Executive Committee for Emergency and Disasters, KAU, 2015-present
2. Member, Engineering Laboratories Safety Committee, College of Engr., KAU, 2015-present
3. Chairman, Graduate Students Admission Committee, Nuclear Engr Dpt., KAU, 2014-present
4. Member, College of Engineering Board, JUST University
5. Member, College ABET Committee, JUST University
6. Chair, National Committee for drafting Uranium Mining Regulations
7. Board Member, Areva-Jordan French Uranium Mining Company

### **Principal Publications/Presentations from the Past Five Years**

1. Xoubi, Ned. "Decay heat analysis of system-integrated modular advanced reactor (SMART) using SCALE 6." *Progress in Nuclear Energy* 124 (2020): 103336. <https://doi.org/10.1016/j.pnucene.2020.103336>
2. Xoubi, Ned, et al. "An investigative study of enrichment reduction impact on the neutron flux in the in-core flux-trap facility of MTR research reactors." *Nuclear Engineering and Technology* 52.3 (2020): 469-476. <https://doi.org/10.1016/j.net.2019.08.008>
3. Ned Xoubi, "Economic assessment of nuclear electricity from VVER-1000 reactor deployment in a developing country" *Energy* 175 (2019): 14-22., <https://doi.org/10.1016/j.energy.2019.03.071>
4. Mohammed M. Damoom, Suhairul Hashim, Mohammed S. Aljohani, Muneer Aziz Saleh, Ned Xoubi, "Potential areas for nuclear power plants siting in Saudi Arabia: GIS-based multi-criteria decision making analysis" *Progress in Nuclear Energy*, 110 (2019) 110–120, Elsevier <https://doi.org/10.1016/j.pnucene.2018.09.018>
5. Xoubi, Ned, and Abdelfattah Y. Soliman , " Validating COMSOL multiphysics for VVER-1000 whole-core-steady-state via AER benchmark problem" *International Journal of Nuclear Energy Science and Technology* 12.2 (2018): 161-17, *Inderscience*. <https://doi.org/10.1504/IJNEST.2018.094285>
6. Xoubi, Ned. "Neutronic design study of accelerator driven system (ADS) for Jordan subcritical reactor as a neutron source for nuclear research." *Applied Radiation and Isotopes* 131 (2018): 71-76. <https://doi.org/10.1016/j.apradiso.2017.11.011>
7. Xoubi, Ned, and Abdelfattah Y. Soliman. "Neutronic calculations of the IAEA 10MW MTR benchmark reactor via finite element method using COMSOL multiphysics code." *Annals of Nuclear Energy* 109 (2017): 277-283. <https://doi.org/10.1016/j.anucene.2017.05.033>
8. Xoubi, Ned, and Abdelfattah Y. Soliman. "Neutronic modeling and calculations of the ETRR-2 MTR reactor using COMSOL multiphysics code." *Annals of Nuclear Energy* 109 (2017): 667-674. <https://doi.org/10.1016/j.anucene.2017.06.007>
9. Xoubi, Ned "Calculation of the power and absolute flux of a source driven subcritical assembly using Monte Carlo MCNP code," *Annals of Nuclear Energy*, 97(1), 96-101, (2016) <https://doi.org/10.1016/j.anucene.2016.07.009>
10. Xoubi, Ned "Neutrons and Gamma-Ray Dose Calculations in Subcritical Reactor Facility Using MCNP," *Atoms*, 4(3), 20, (2016) ; <https://doi.org/10.3390/atoms4030020>
11. Xoubi, Ned. "Viability of a Utility-Scale Grid-Connected Photovoltaic Power Plant in the Middle East." *Journal of Applied Sciences* 15(11), 1278, (2015). <https://doi.org/10.3923/jas.2015.1278.1287>
12. Xoubi, Ned. "Evaluation of Uranium Concentration in Soil Samples of Central Jordan." *Minerals* 5(2), 133-141, (2015). <https://doi.org/10.3390/min5020133>
13. Xoubi, Ned. "The Engineering of an Undergraduate Nuclear Education Program in Jordan." *British Journal of Applied Science & Technology* 8(6), (2015) <https://doi.org/10.9734/BJAST/2015/17091>
14. Xoubi, Ned. "Decay heat analysis of system-integrated modular advanced reactor (SMART) using SCALE 6." *Progress in Nuclear Energy* 124 (2020): 103336. <https://doi.org/10.1016/j.pnucene.2020.103336>
15. Xoubi, Ned, et al. "An investigative study of enrichment reduction impact on the neutron flux in the in-core flux-trap facility of MTR research reactors." *Nuclear Engineering and Technology* 52.3 (2020): 469-476. <https://doi.org/10.1016/j.net.2019.08.008>
16. Ned Xoubi, "Economic assessment of nuclear electricity from VVER-1000 reactor deployment in a developing country" *Energy* 175 (2019): 14-22., <https://doi.org/10.1016/j.energy.2019.03.071>

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

1. "Self-Leadership & Management Course Online", Jeddah April 2020

2. Test Tools and students Reports in Blackboard learning management System, Deanship of e-Learning and Distance Learning. June 2020.