



Curriculum Vitae

Khairi M-S. Abdullah
PhD Nuclear Engineering



Contact Information :-

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PERSONAL INFORMATION

Name : Khairi M-S. Abdullah
Nationality : Iraqi
Birth Date : Duhok 1951
Gender : Male
Marital Status : Married

EDUCATIONAL BACKGROUND

DEGREE

- **PhD Nuclear Engineering. University of Missouri-Columbia 1986-1989, USA**
- **MSc Nuclear Reactor Technology. University of Baghdad 1976-1977, IRAQ**
- **B. Sc. Physics. Al-Mustansiriyah University, Collage of Science, Department of Physics, 1970-1975. Baghdad, IRAQ.**

WORK EXPERIENCE

- **Iraqi Atomic Energy Commission (IAEC) as a research assistance, 1977-1985.**
- **Iraqi Atomic Energy Commission (IAEC) as a researcher, 1989-1998.**
- **Iraqi Atomic Energy Commission (IAEC) as a head of researcher, 1999.**
- **Head of Scientific, Engineering Departments in IAEC and head of Underground Nuclear Eplosion Site Selection of PC-3 Project (IAEC), 1989-1999.**
- **University of Duhok (UOD)/ College of Science as a professor assistance, 1999-2000**
- **University of Duhok (UOD)/ College of Engineering, Dep. Of Water Resources as a professor assistance, 2000-2014**
- **University of Duhok (UOD)/ College of Engineering, Dep. Of Water Resources as a professor, since 2015**

TEACHING EXPERIENC

- Advanced Engineering Mathematics, PhD,MSc, Dep. of Water resources, College of Eng., UOD since 2012
- Acoustics for Architecture, Dep. of Architectural, Collage of Eng., UoD, 4th year since 2011
- Environment climate, Dep. of Architectural, Collage of Eng., UoD, 4th year since 2011
- Physics for Architecture, Dep. of Architectural, Collage of Eng., UoD, 1st year since 2011
- Nuclear Physics, MSc & 4th year, Collage of Science, UOD & University of Zakho, since 2006
- Radiation Detection, MSc, Collage of Science, UOD & University of Zakho, since 2006
- Numerical Methods by Fortran-90 Language, College of Eng. UOD, 2nd year Dep. of Water resources, since 2001
- Programing by MATLAB, College of Eng. UOD, 2nd year Dep. of Water resources, since 2012
- Thermal Environmental, College of Eng. UOD, 4th year Dep. of architectural since 2012
- Physics of Acoustics, College of Eng. UOD, 4th year Dep. of architectural since 2012
- Nuclear Reactor theory, Coll. of Eng., univ. of Baghdad, Dep. Of Nuclear Engineering, MSc 1991-1999
- Reactor Theory, Coll. of Eng., univ. of Baghdad, Dep. Of Nuclear Engineering, 4th year 1991-1999
- Reactor Engineering, Coll. of Eng., univ. of Baghdad, Dep. Of Nuclear Engineering, 4th year 1991-1999
- Teaching different subjects at different universities:
 - Atomic Physics, *Al-Mustansiriyah Univ.*, Dep. Of Physics
 - Advance Mathematics, PhD Univ. of Technology, and
 - CNC machines, Collage of Technology/Baghdad 1997

Languages

Excellent: English , Arabic and Kurdish (Read & Write)

Hobbies

Reading Scientific, Paper published Magazine, Internet Serving and Music.

Visited

USA, UK, France, Syria, Turkey

RESEARCHES

1- Published Paper		
	Research name	Publisher
1.	Effects of the Low Dose Ionizing Radiation (X-ray) on Human Blood Components during Catheterization Process	Med & Analy Chem Int J 2019, 3(4): 000150. ISSN: 2639-2534
2.	Background reduction by Cu/Pb shielding and efficiency study of NaI(Tl) detector	Nuclear Engineering and Technology 50 (2018) 462-469
3.	Building a Visible Light Spectrophotometer From NaI Detector	Asian Journal of Chemical Sciences 2(2): 1-7, Article no.AJOCS.32418, 2017
4.	A Method to Determine Doublet Photopeak Area (¹³⁷ Cs and ²¹⁴ Bi) in NORM Soil by NaI-detector	International Journal of Fundamental Physical Sciences IJFPS, Vol 5, No 2, June , 2015

5.	Natural Radiological Hazrdous ofRocks in Duhok Governorate, Kurdistan Region, Iraq	J.of Dohuk University Vol 17 # 1,Dec.2014
6.	Linguistic concepts and physical notion for religious crescent visibility in measuring the lunar year المفهوم اللغوي والبعد العلمي في الرؤية الشرعية للأهلة في قياس السنة القمرية	مجلة العلوم الحديثة والتراثية J. Mod. Sci. Heritage, 351 – 323 : (2) 2, 26-8-2014, http://www.jmsh.eu
7.	Environmental and Radiological Pollution in Creek Sediment and Water from uh k, Iraq	ISSN 0029-5698, The Nucleus 49, No.1 (2012)
8.	Determination of Gamma-Emitting Radionuclides in Duhok City, IRAQ	The Nucleus 48, No.4 ISSN 0029-5698, 2011
9.	Development of Computer Code to Simulate a PWR In – Core Fuel Management	J.of Dohuk University Vol 7, No. 2, Dec.2004
10.	Effect of Charged Beta Particles on Electrical Properties of some Polymers	J.of Dohuk University Vol 7 No. 1, Jun .2004
11.	Simulation PWR Rector by Personal Computer	J.of Dohuk University Vol 7 No. 1, Jan 2004
12.	Flow Resistance in Closed Hydraulic Systems	Ibn Al-Haitham for Pure and Applied Science Vol 15 No. 4B, 2002
13.	Thermal Disadvantage Factor: An Efficient Calculation.	Nuclear Science and Engineering Vol 104 No. 1, P34-39, Jan 1990
14.	The Steady State Temperature Distribution Calculation in IRT-M Fuel Assembly	Mathematics and Physics Iraqi Journal Vol.11No. 1, 1989
15.	Shield Calculation for An Experiment On One of The Reactor Horizontal Channel	IAEC Annual Report 6210-P07-1984
16.	Control Rod and Safety Factor Calculation for The IRT-5000	IAEC Annual Resort 6210-P10-84. 1984
17.	Neutronic Calculation for TAMMUZ Reactor Using DAXY Code	IAEC Annual Report PH-RP-23-1983
18.	Utilization of The Heat Transfer and Thermo hydraulic Codes Reactor Calculation	IAEC Annual Report PH-RP-P22-1983
19.	Neutronic Calculation Using DOT – 3.5 Code ,Application to The Tammuz Reactor	IAEC Annual Report PH-RP-P20-1982

II – Classified Papers

	Research name	Publisher
1.	Basis Report of Site Selection For Underground Nuclear Explosion التقرير الاساس لاختيار موقع تجربة تفجير نووي تحت الارض	(FFCD) Final Full Comprehensive Document, PC-3 Project. (UNSCOM) These Studyies Had Been Done Under The Project Entitled Site Selection For Underground Nuclear Explosion, 1989-1991
2.	Basis report for the laboratory of assembling التقرير الاساس لمختبر التجميع	
3.	Standards and Regulatios for Site Selection of Desert Research Station المعايير والاسس المعتمده لأختيار موقع محطة بحوث الصحراء	
4.	Technical specifications required in the storage and transfer of the machine and components المواصفات الفنية المطلوبة في خزن ونقل الآلة ومكوناتها	
5.	Criticality Computation of the Machine During Storing حسابات ألحرجة الخاصة بخزن الآلة	
6.	Seismic Situation and Seismic Structural study of Iraq دراسة الوضع الزلزالي والزلزالي البنيوي للعراق	

7.	Geological and hydrological study of desert areas in Iraq دراسة جيولوجية وهيدرولوجية للمناطق الصحراوية في العراق	
8.	Climatic and Meteorological Factors of western Iraq العوامل المناخية والأوائية لمنطقة غرب العراق	
9.	Population Density and Distribution in the Provinces of Western Iraq الكثافة والتوزيع السكاني لمحافظة العراق الغربية	
10.	Topographic and Surface Water Situation of western Iraq دراسة الوضع الطبوغرافي والمياه السطحية لمنطقة غرب العراق	
11.	Proposed Site Selection of the Best Area for the Desert Research Station: Final Report اختيار المنطقة الأفضل لمحطة بحوث الصحراء: التقرير النهائي	
12.	Engineering calculations for underground nuclear Explosion: Hole-Depth Calculation الحسابات الهندسية لتفجير نووي تحت الأرض	
13.	Basis Report: Facilities of Desert Research Station Site التقرير الاساس لمنشآت موقع محطة بحوث الصحراء	

III – Published Papers via Conferences

	Research name	Publisher
1.	Radionuclide Concentrations Analysis of Duhok Air Atmosphere by Gamma Spectrometry	Duhok, Irak . Innovaciencia, Facultad de Ciuncias Exactas, Naturales Y Agropecuaries. 2018; 6(1): 1-8. DOI: http://dx.doi.org/10.15649/2346075X.501
2.	Thermal Joint Resistance of Solid Materials as a Function of Pressure and Roughness	HEFAT2010 7 th International Conference, Antaya, Turkey, 19-21 July (2010)
3.	Nuclear Reactor Fuel Cell Calculation	ANS Midwest Regional Student Conference Univ. of Illinois-(1989)
4.	Shield Calculation for a Reactor Horizontal Channel	7 th Conference of Iraqi Society of Physics and Mathematics , (1985)
5.	Evolution of Thermal Neutron Flux in IRT-2000 Fuel Cell Using Numerical Technique	7 th Conference of Iraqi Society of Physics and Mathematics , (1985)
6.	Intercomparison of Different Methods for Criticality Calculation of MTR Reactor Type	3 ^{ed} Conference of Arab Physics and Mathematics, Tunis, (1983)

Postgraduate Supervision

Completed Theses

Student's Name	Type of Thesis	Thesis Title	Date
Abbas H.AL-Jubbori	MSc	Refinement of Fuel Cell Calculation and Smoothing	1994-1995
Kasim R-A-AL-Quraishi	MSc	Simulation of PWR In –Core Fuel Management	1994-1996
Firas A.AL-Helaly	MSc	Effect of Charged Particles, Pressure, and Humidity on Electrical Properties of Some Insulator Materials	1997-1999
Manaf A.Mohammad	PhD	Thermal Contact Conductance of Solid Materials as Function of Pressure & Smoothness	2006- 2007
Revink Ali Ramadhan	MSc	Determination of the Natural Environmental Radioactive Sources of DUHOK City Soil using Gamma Ray Spectroscopy	2009 - 2010

	Mehraban Tayeb Ahmed	MSc	Analysis of Environmental and Radiological Pollution in Creeks and Their Sediment of Duhok Governorate	2010 -2012	
	Souzan Younis Ameen	MSc	Determination of the Natural and Anthropogeni Radioactivity in the Agriculture Soil and Harvest of Duhok governorate	2012-2013	
	Ahmed Salih	MSc	Estimation of the Cesium-137 and Poasium-49 Radioactivity in the wood and wood ashes of Duhok governorate	2014- 2015	
Theses in Process					
	Student's Name	Type of Thesis	Thesis Title	Academic Year	
	Revink Ali	PhD	Analysis of an Environment pollution of Duhok governorate: Chemical Elements and Radionuclides	2015-2000	
Book publishing					
<p>"Fundamentals in nuclear physics", A text book for the MSc. and 4th year department of physics/collage of sciences, UoD publishing, 2014</p>					