



PERSONAL DETAILS:

Name Dr. Zidan Mohamed M. Houmani
Date & Place of Birth 21st January 1967, Elfugha, Libya
Citizenship Libyan
Marital Status Married, Two Sons
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Language Proficiency Arabic and English (Fluent at both in speaking, listening, reading and writing)

EDUCATION AND QUALIFICATIONS

2005 – 2012 : **Ph.D** (Radiation Physics)
Nuclear Science Program, School of Applied Physics,
Faculty of Science, National University Malaysia, Malaysia.

1997 – 2000 : **M.Sc** (Radiation Physics)
Department of Physics, Faculty of Science,
University of Malaya, Malaysia.

1985 - 1990 : **B.Sc** (Physics)
Department of Physics, Faculty of Science,
Sebha University, Libya

ACADEMIC EXPERIENCE

2020 – Present : Professor Asistanst (Department of Physics, Faculty of Science, Sebha University)

2013 – 2020 : Lecturer (Department of Physics, Faculty of Science, Sebha University)

2000–2003: Lecturer Asistanst (Department of Physics, Faculty of Science, Sebha University)

1992-1996 : Demonstrator (Department of Physics, Faculty of Science, Sebha University)

MANGEMENT EXPERIENCE

2001-2003 : President of Syndicate of Staff Members Faculty of Science, Sebha University

2015-2017 : President of General of Syndicate University Faculty Members

5/2015-11/2016 :Vice Chairman of the Board of Directors of Atomic Energy Corporation.

11/2016 - 02/2017 : Chairman of the Board of Directors of Atomic Energy Corporation

12/2016-04/2021:Head of the Department of Physics, Faculty of Education , N'Djamena,Chad

CONFERENCE / SEMINAR

21-23 of Novemer, 2011

Houmani, Zidan M.,Majid. Amran, Radiman. Shahidan, and Ahmad. Zaharudin,. “*Sorption Coefficients of ^{137}Cs onto Various Malaysian Soil Series*”. A paper presented at the 24th International Symposium on Chemical Analysis of Malaysia (SKAM-24),(International) [Orel presentation]

21-23 of Novemer, 2011

Houmani, Zidan M.,Majid. Amran, Radiman. Shahidan, and Ahmad. Zaharudin,. “*Effects of Physico-Chemical Soil Properties on the Adsorption and Transport of ^{137}Cs in Rengam and Selangor Soil Series*”. The 24th International Symposium on Chemical Analysis of Malaysia (SKAM-24), (International) [Orel presentation]

11-13 of August, 2009

Houmani, Zidan M.,Majid. Amran, Radiman. Shahidan, and Ahmad. Zaharudin,. “*Influence of the physico-chemical properties of Selangor soil series on the partition coefficient (K_d -value) of ^{226}Ra* ”. The 10th Asian Conference on Analytical Science and the 22nd International Symposium on Chemical Analysis of Malaysia (ASIANALYSIS X and SKAM 22), (International) [Orel presentation]

23-25 August, 2007

Houmani, Zidan M., Majid. Amran, Radiman. Shahidan, and Ahmad. Zaharudin,. “Determination of natural and artificial radionuclide concentration and distribution coefficients (K_d -value) of ^{137}Cs in various Malaysian soil series”. The 20th International Symposium on Chemical Analysis of Malaysia (SKAM-20),(International) [Poster presentation]

26 June, 2007

Houmani, Zidan M., Majid. Amran, Radiman. Shahidan, and Syed Hakimi Sakuma Syed Ahmad,. “Radioactivity concentration measurements of ^{137}Cs , ^{238}U , ^{232}Th , and ^{226}Ra in various Malaysians soil series using INAA and gamma ray spectrometry” . The 7th Colloquium for Postgraduate Student at Faculty of Science, Universiti Kebangsaan Malaysia. (National) [Orel presentation]

5-9 June, 2000

Houmani, Zidan M., Bradley, D.A, and Maah, Jamil. Mohd. “Concentration of ^{210}Po , ^{226}Ra and ^{228}Ac in non-siliceous environmental materials”. The 8th International Symposium on Radiation Physics. ISRP8” at Prague, Czech Republic, (International) [Orel presentation]

10-13 November, 1998

Houmani, Zidan M., Bradley, D.A, and Maah, Jamil. Mohd. “Concentration of ^{210}Po in Non-Siliceous Environmental Materials”. The 2nd International Symposium on the Treatment of Naturally Occurring Radioactivity Materials (NORM-II) at Krefeld, Germany (International) [Orel presentation]

25-29 October, 1998

Houmani, Zidan M., Bradley, D.A, and Maah, Jamil. Mohd. “Residual moisture and alpha spectra from samples of alluvia materials contaminated by ThO_2 ”. An International Meeting on Frontiers of Physics at Kuala Lumpur, Malaysia (International) [Orel presentation]

PUBLICATION

Houmani, Zidan M., Ab Majid. Amran,. Radiman. Shahidan,. and Ahmad. Zaharudin,. “Sorption Coefficients of ^{137}Cs onto Various Malaysian Soil Series”. *The Malaysian Journal of Analytical Sciences*. 16 (2). pp:157. 2012.

Houmani, Zidan M., Ab Majid. Amran,. Radiman. Shahidan,. and Ahmad. Zaharudin,. “Effects of Physico-Chemical Soil Properties on the Adsorption and Transport of ^{137}Cs in Rengam and Selangor Soil Series”. *The Malaysian Journal of Analytical Sciences*. 16 (2). pp:94. 2012.

Houmani, Zidan M., Majid. Amran, Radiman. Shahidan, and Ahmad. Zaharudin,. “Influence of the physico-chemical properties of Selangor soil series on the distribution coefficient (K_d -value) of ^{226}Ra ”. *Journal of Radioanalytical and Nuclear Chemistry* 285:271-277. 2010.

Houmani, Zidan M., Bradley, D.A, and Maah, Jamil. Mohd.“Concentration of ^{210}Po , ^{226}Ra and ^{228}Ac in non-siliceous environmental materials”. *International Journal Radiation Physics and Chemistry* 61 (3-6), pp.665-668. 2001

RESEARCH EXPERIENCE

Throughout my work towards the master degree in applied physics and other associated laboratory work, under the supervision of the physics Department at University of Malaya, I gained experience in using both Alpha Spectrometry and Gamma Spectrometry techniques and instrumentation. My particular expertise using these techniques was analysis of soils and sediments samples. I also became proficient in the use of radiochemistry separations methods to extract ^{210}Po from soils and sediments samples for subsequent analysis by Alpha Spectrometry.

RESEARCH FIELD WORK

My research fieldwork was concentrated on certain issues in the measurement of Technologically Enhanced Naturally Occurring Radioactivity Material (TENORM). This is generally can be presented as large-volume, low-activity waste, in the waste streams produced by industries such as mineral mining, ore beneficiation, production of phosphate fertiliser, water treatment and purification, and oil and gas production.

Understanding the concentrations and migration patterns of ^{226}Ra and ^{137}Cs in the subsurface are important because both radionuclides are commonly found in environmental samples and have harmful radiological effects on humans and other biota.

Determined Measurement of naturally occurring radioactive materials (NORM), in particular the distribution of uranium (^{238}U) and thorium (^{232}Th) series nuclides, ^{40}K in undisturbed soil using both instrumental neutron activation analysis (INAA) and gamma spectrometry techniques.

INVITED SPEAKER

12th –15th December 2016

Scientific Lectures under the Title (*Method of Coordinating and presenting Academic Research using Microsoft Word Program and using EndNote Program to Organise References and Indexes in Writing Theses*) at The First Scientific Forum for Developing the Skills of Researchers at Sebha University, Organising the University's Training and Development Center.

17th April 2013

A scientific Lecture Entitled "*Radiation Measurement Units and Radiation Dose Limits*" in a Workshop Organized by the Syndicate of Diagnostic and Therapeutic Radiology in the Southern Region under the Title "**Prevention of Harmful Radiation between Reality and Ambition**" at Sebha City.

13th April 2013

A Scientific lecture Entitled "*Method of Coordinating and Presenting Academic Research Using the EndNote and the Word Program*" in a Workshop Organized by the Higher Institute for Comprehensive Professions – Sebha City, Libya..

21th March 2013

An Interview on Libya's National TV on the (Al-Wataniya Corridors Program). The meeting was about "*The Damages of Ionising Radiation in the Medical Field and Naturally Emitted Radiation in Various Fields*" and Educating citizens about Prevention, as well as Knowing the Radiation Doses that are Allowed to be Exposed Internationally.

18th April 2012

Workshop on Writing Skills for Research MS Word Template and EndNote organized by Biotechnology Pilot Laboratory, Departement of Chemical and Process Engineering, Faculty of Engineering and Built Environment, National University Malaysia, Malaysia.

12th April 2009

Lecturer on Skills for EndNote at The First Conference for the Development of Research Skills Supervise for Libyan Postgraduates Student in Malaysia, Organised by the Libyan Student Union in Malaysian, Malaysia

TRAINING AND WORKSHOPS

10-12 July 2012

Workshop on Nanotechnology Summer School, organized by School of Applied Physics, Faculty of Science Technology, National University Malaysia at Graduate Seminar Room. (University) [Participant]

20-22 May 2008

Training Course on Operation Apex Spectroscopy System organized by Commermega Sdn Bhd. Nuclear Science Program, School of Applied Physics, Faculty of Science, National University Malaysia, at Nuclear Science building, Bangi, Selangor, Malaysia

8-9 January 2008

Workshop on Soil Remediation, organized by Postgraduate Studies Centre, Universiti Kebangsaan Malaysia at Equatorial Hotel, Bangi, Selangor. (University) [Participant]

19-20 July 2005

Workshop on Academic Writing (Writing & Skills in English) for Postgraduates Student , organised by Postgraduate Studies Centre, Universiti Kebangsaan Malaysia at Equatorial Hotel, Bangi, Selangor (University) [Participant]

10-19 December 2002

Intensive Training Course Comprising on Computer Assisted Physics organized by LEYBOLD DIDACTIC GMBH, at Leybold Didactic GmbH, Huerth , Germany.