

Dr. Mohammed Khalil SAEED SALIH

2011-07-14

Personal Profile

- **Date of birth:** 28 of August 1976
 - **Place of birth:** Omdurman - Sudan
 - **Sex:** Male
 - **Nationality:** Sudanese
 - **Martial status:** Married – 1 child and infant (6 and 1.5 Year)
 - **Languages:** Arabic "mother tongue", and English
 - **Address (until 01.09.2011) :** Teerhof Guesthouse
Teerhof 58
GHT 280
28199 Bremen
Germany
 - **Address:** University of Bremen
IUP - Institute of Environmental Physics
Otto-Hahn-Allee 1
Gebäude NW1,
Room no: S 4250
D-28359 Bremen
Phone: -49-421-218-62763
 - **Efax:** +14198445248
 - **Cell Phone:** +4917669304643 or +966-534529348
 - **Emails:** mohamedrick@gmail.com, mkhalil@nu.edu.sa,
mkhalil@iup.physik.uni-bremen.de
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Professional Experience

- 06.2011 – Present** **Post-doc Researcher:** (Bremen and Oldenburg University, Germany).
- 12.2009 –06.2011** **Assistant Professor of Medical Physics:** (Najran University, Department of Radiological Science, College of Applied Medical Science, Najran, Kingdom of Saudi Arabia). Teaching of students in College of Medicine, Dentistry and College of applied Medical Sciences courses such as: Medical Physics,

Radiation Physics, Radiation Protection, Physics of Nuclear Medicine, Radiation protection and Advance Equipments.

03.2010 – 06.2011 Rapporteur of the Commission of Scientific Research on Health colleges.

04.2010 – 04.2010 Member on unit of quality of health colleges.

03.2010 – present Member in the Committee to respond to radiological and nuclear emergency in Najran

02.2006 – 09.2009 **Part-time Lecturer:** (Sudan University for Science and Technology, & El-neelain University in Khartoum, Sudan). Teaching of undergraduate & postgraduate Radiotherapy and Radiology medical students.

09.2000 – 12.2009 **Medical Physicist:** (Radiation & Isotopes Center Khartoum (RICK), Khartoum, Sudan). In the field of nuclear medicine: Dealing with two Gamma Camera "Philips and ZLC- 37Siemens gamma camera modified by Hungarian Mediso" and perform quality control using Co- 57 point source for intrinsic uniformity and Co- 57 disc type flood source for all system uniformity tests . The workload was about 15 patients per day. In addition calculation and preparation of the therapy dose "I- 131and P-32" for patients and protect both the staffs and patients from external radiation.

In the field of radiotherapy:

Treatment planning of cancer patients by teletherapy (using ROCS and Pinnacle treatment planning system) and brachytherapy (using ABACUS 3.1 treatment planning system for GammaMed 12i), proper execution of the treatment.

Determination of absorbed dose to water for Cobalt- 60 gamma ray beams , high energy photon beams and electron beams using TRS - 398, TRS- 277 Protocols.

Commissioning of Cobalt- 60 gamma ray beams (MDS-Nordion), and high-energy photon beams and electron beams (Elekta).

Supervising and administrating of PACS system in the capacity of medical physicist.

12.2008 – 12.2009 **Head of Radiation Protection Department:**

Teaching of undergraduate & postgraduate Radiotherapy and Radiology medical students, teaching of medical physicist trainees. Overall radiation safety, radiation monitoring and calibration of radiation equipments in the capacity of radiation safety officer. In addition, perform quality control for diagnostic machines

such as CT, conventional x-ray units, mammography and dental units.

Education

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| 09.2006 – 09.2009 | PhD in Medical Radiation Physics,
Title: Investigation of activation product in medical Linear accelerators. El-Neelain University, Sudan (in cooperation with International Center for Theoretical Physics, Trieste, Italy) |
| 06.2003 – 06.2005 | MSc in Medical Radiation Physics,
Sudan University for Science and Technology, Khartoum, Sudan |
| 09.2001 – 09.2002 | Postgraduate Diploma in Physics,
El-neelain University, Khartoum, Sudan |
| 01.1995 – 07.2000 | BSc in Applied Physics and Mathematics,
Omdurman Ahlia University, Omdurman, Sudan |
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Fellowships

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| 06.2011 – present | Alexander von Humboldt-Stiftung/Foundation, America Jean-Paul-Str. 12
53173 Bonn Germany |
| 09.2006 – 12.2006
08.2007 – 12.2007
08.2008 – 12.2008 | UNESCO fellowship for Sandwich training education program, ICTP, Trieste,
Italy |
| 09.2003 – 12.2003 | VLIR fellowship from Belgium government for international training in physics
of medical imaging, radiotherapy, and nuclear physics and related radiation
protection at VUB, Brussels, Belgium |
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Participation in schools, workshops, training and conferences

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| 14 – 15.12.2010 | Quality Assurance and Institution Assessment workshop, National
Commission for Academic Accreditation & Assessment, Kobber, KSA |
| 15 – 17.05.2010 | Symposium in Radiation Protection in Diagnostic Radiology Centers,
Najran, KSA |
| 16.11 – 20.11.2009 | Regional (AFRA) Training workshop on management of radioactive waste
from medical applications, International Atomic Energy Agency (IAEA) &
CNESTEN, Rabat, Morocco. |
| 12.10 - 16.10.2009 | Neutron and ions dosimetry symposium (NEODOSE11), iThempa LAB,
Cape Town, South Africa. |
| 27.04 - 29.04.2009 | International Conference on Advances in Radiation Oncology (ICARO),
International Atomic Energy Agency, Vienna, Austria. |
| 18.11 - 2.12.2008 | European school of medical physics, Archamps, France |
| 24.11 – 05.12.2008 | Joint ICTP-IAEA School on Quality Assurance in Radiotherapy with |

	Emphasis on 3D Treatment Planning and Conformal Radiotherapy, International Centre for Theoretical Physics, Trieste, Italy
10.11 – 21.11.2008	Workshop on the Training in Basic Radiation Materials Science and its Applications to Radiation Effects Studies and Development of Advanced Radiation-Resistant Materials , International Centre for Theoretical Physics, Trieste, Italy
20.10 – 24.10.2008	Activity on Imaging in Advanced Radiotherapy Techniques , International Centre for Theoretical Physics, Trieste, Italy
01.09 – 19.09.2008	College on medical physics, International Centre for Theoretical Physics, Trieste, Italy
14.04 - 16.04.2008	The 16 th International Conference on Medical Physics, "Current and Future science in Radiation Medicine", Dubai, UAE.
12.11 – 23.11.2007	Workshop on Nuclear Data for Science and Technology: Medical Applications, Abdus Salam International Center for Theoretical Physics, Trieste, Italy
15.10 – 26.10.2007	School on Pulsed Neutrons: Characterization of Materials, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy
27.11 – 01.12.2006	Workshop on Economic Development for Physicists from Developing Countries, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy
04.09 – 29.09.2006	College on medical physics, Abdus Salam International Centre for Theoretical Physics, Trieste, Italy
17.07 – 19.07.2006	Training on PTW equipments (TLD reader "PCL 3" , Water Phantom "MP3", flat panel "seven29 Expert Package", PTW FREIBURG, Freiburg, Germany.
05.2006	Training on Essentials of quality in the clinical services field, Ministry of Federal Health with Radiation & isotopes Center Khartoum, Khartoum, Sudan
10.04 – 19.04.2005	Training on Radiation Protection from radioactive sources, Syrian Atomic Energy Agency, Damascus, Syria
20.11 – 24.11.2004	Regional (AFRA) Training workshop on quality control and dosimetry of linear accelerator beams in radiotherapy, International Atomic Energy Agency (IAEA) & Radiation and Isotopes Center Khartoum, Khartoum, Sudan
09 – 12.2003	Medical Imaging, Radiation Therapy and Nuclear medicine and Radiation Protection, VL.I.R International Training Programme Free University of Belgium University of Gent Belgium, Brussels, Belgium
05 - 06.2005	<ul style="list-style-type: none"> • Training on personal monitoring for individually exposed workers OEWs, Sudan Atomic Energy Commission, Khartoum, Sudan
20.09 – 24.09.2004	Regional (AFRA) Training workshop on codes of practice in Dosimetry,

- September 2004, South Africa Association of Physicists in Medicine and Biology & IAEA **Johannesburg South Africa**
- 23.02 – 27.02.2003** Advances in Diagnostic Radiology and Nuclear Medicine Physics, American Association of Physicists in Medicine & Egypt Association of Medical Physicists Nasser Institute Hospital, **Egypt**
- 06.01 - 06.02.2002** C- Language & Computational Physics C- Language & Computational Physics, February 2002, University of Amsterdam & University of Khartoum **Sudan**
- 1.10.1998-7.4.1999** Diploma of computer, April 1999 Damsin International Company Ltd. **Khartoum Sudan**
- 13.5.1996-1.6.1996** Introduction & Operation PC, United For Computer Sciences & Language **Khartoum Sudan**

Informatics

Microsoft Office software, ROCS Version 5.1.1 for Treatment Planning System Pinnacle for Treatment Planning System "TPS"- [3D], ABACUS 3.1 for TPS of HDR - Brachytherapy - [2D]), PACS system, OmniProTM-Accept System, Ver 6.1 for commissioning and quality contro, Visual Basic Version 5, C & C++, (Programming), Software image processing.

Hobbies

Travelling, panting, reading, and jogging.

Publications

A) Articles in journals/contributions to books

- 1-A. Sulieman, M. Elzaki and **M. Khalil** (2011): Occupational Exposure to staff during Endoscopic Retrograde Cholangiopancreatography in Sudan. Radiat Prot Dosimetry 144, No. 3, 530-533.
- 2- **Saeed, M.K.**, Moustafa, O., Yasin, O.A., Tuniz, C. and Habbani, F.I. (2009): Doses to patients from photo-neutrons emitted in a medical linear accelerator. Radiat Prot Dosimetry 133, No. 3, 130-135.
- 3- **Saeed, M.K.**, Taha, M.M.E. and Ali, O.A. (2009): Dose measurements for chest x-ray examinations at four diagnostic centers in Sudan. Pan Arab Medical Journal 2, No. 14, 52-56.
- 4- Saeed, M.K. (2009): Measurement of central and off axis data for megavoltage x-ray beams. Sudan Journal for basic science, P, 3, 19-25.

B) Published contributions to academic conferences

- 5- **Saeed, M.K.** and Taha, M.M.E. (2008): A comparison of TLD dosimeters: LiF:Mg,Cu,P and 7LiF:Mg,Cu,P for medical application. Proceedings of the 16th International Conference on Medical Physics at Dubai, UAE, April 2008 14-16.
- 6- **Saeed, M.K.**, Moustafa, O., Yasin, O.A., Tuniz, C. and Habbani, F.I. (2009): Doses to patients from medical linear accelerator. Proceedings to the International Conference on Advances in Radiation Oncology (ICARO) at Vienna, Austria, April 2009 27-29.
- 7- H. Goda, A. Sulieman, M. Yousif and **M K SAEED** "Radiation Dose Measurements To Patients And Staff During Cardiac Catheterization" proceedings from the European Conference on Individual Monitoring of Ionizing Radiation, March 8-12, 2010, Athens, Greece.
- 8- A. Sulieman, M. Elzaki, and **M Khalil** "Occupational Exposure To Staff During Endoscopic Retrograde Cholangiopancreatography In Sudan" proceedings from the European Conference on Individual Monitoring of Ionizing Radiation, March 8-12, 2010, Athens, Greece
- 9- M. Yousef, A. Sulieman, M. Omer, M. Yousif, O. Sabeel, M. Ibraheem and **M K SAEED** "Radiation dose Measurements to Patients and staff during Thyroid Scan" proceedings from the European Conference on Individual Monitoring of Ionizing Radiation, March 8-12, 2010, Athens, Greece

C) Published contributions to Newspaper

- 10- "Al-Talawoth Al-Elishai" ("Radiation Contamination"). Al Hayat daily Newspaper. Saturday, Mar 15, 2005 [in Arabic]
- 11- "Al-beah wa al-hemaia men al-eshai" ("The Environment and protection against radiation"). Al Ray Alaam daily Newspaper. Wednesday, April 21, 2004 [in Arabic]

D) Books

- 12- **M K SAEED** "The Basic of Clinical Photon Beam Dosimetry" ISBN (978-3-8454-0275-8) LAP Lambert Academic Publishing, "under press".
- 13- **M K SAEED** "Investigation of Activation Products in Medical Linear Accelerators" ISBN (978-3-8433-9413-0) LAP Lambert Academic Publishing, 2011.D.
- 14- **Saeed M.K.**, Elhassan M.M., Salih E., Ahmed H. M. "Radiation Protection Manual", Radiation and Isotopes Center Khartoum, Federal Ministry of Health, Khartoum, Sudan. Approved by Sudan Atomic Energy Commission, Radiation Safety Institute and Director of Radiation and Isotopes Center, 31/7/2008, in press (depositing no.: 2009/627 in the federal council for literary & artistic works- Sudan).

Membership of scientific organizations

Feb 2008	European Physical Society, Mulhouse, France
May 2006	Sudanese Association of Medical Physicists (SAMP), Treasurer of the Association, Member of IOMP, Sudan
January 2006	Radiation Protection Technical Committee (RPTC), Member, Sudan
Dec 2006	Association of Medical Physicists of India, Member No. LM-1783 "life member", India
January 2003	American Association of Physicists in Medicine, AAPM , Member No. 25914, USA
November 2002	South Africa Society of Nuclear Medicine, SASNM , Member No. 411, South Africa RSNS member No 93170, USA Society of Nuclear Medicine (SNM) , Reston, VA 20190 USA

Awards

Acknowledgment Certificate to participate in the first self assessment of Najran University by Deputy Rectorship for Developing and Quality.

Professional References

1- Prof. Claudio Tuniz
Assistant Director
The Abdus Salam International Centre for Theoretical Physics
Strada Costiera 11
34014 Trieste, Italy
Tel (w): +39 040 2240 232
Tel (Cell): +39 3355973880
Email: ctuniz@ictp.it

2- Dr. Ibrahim Abd Elrahim Shaddad
International Atomic Energy Agency
Programme Manager Officer
Division of Africa
Department of Technical Cooperation
Building B, Floor 10, Office 14
Wagraner Strasse 5, PO Box 100, 1400 Vienna, Austria

Tel (Cell): +43126007800069
Tel (W): +4369910625584, +431260022385 or 22346
Fax: +43126007
Email: ibrahim_shaddad@hotmail.com
i.shaddad@iaea.org