

Personal Details

Name: Tahani S. Mohamed Shatir

Nationality: Sudanese

Marital Status: Single

Sex: Female

Awards

- Fellow SUD/98001R, The International Atomic Energy Agency (IAEA), Fellowship Program, Trieste, Italy, 1998- 2001.
- Junior Associate, The Abdus Salaam International Center for Theoretical Physics, ICTP, Trieste, Italy, 2000 to 2007.

Computer Skills

- **Applications:** Microsoft Word, Excel, PowerPoint, Corel, Mathematica, MathLab. Gap
- **Programming:** Basic, Visual Basic, C++, Pascal, Fortran77, 90.
- **Modelling and Simulations** using Monte Carlo Method.

Conferences Attended

- The second Middle-East and Africa IAU Regional Meeting (Mearim II), 10 – 15 April 2011, Cape Town, South Africa.
- The 4th IUPAP Int. Conference on “Women in Physics” 5 – 9 April 2011 Stellenbosch, South Africa, (Sudan’s Team leader).
- Regional Astronomy Workshop, 21 – 25 February 2011, Addis Ababa, Ethiopia.
- European Optical Society (EOS), annual meeting, 26 – 29 Oct 2010, Parc Floral de Paris, France.
- NSBP Meeting, Launch of the African Physical Society (APS) and LAM9 Conference, 11-16 Jan. 2010, Dakar, Senegal.
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- Workshop on “ASTEROID 2008 TC3” 5-15 Dec 2009, University of Khartoum, Khartoum, Sudan.
- The 9th conference for the Arab Union for Astronomy and Space Sciences (AUASS) 17-19 Nov 2009, Khartoum, Sudan.
- The 3rd IUPAP Int. Conference on “Women in Physics” , Sudan Team leader,

8-10 Oct. 2008, Seoul, Korea, (Sudan's Team leader).

- Preparatory School & Winter College on “*Micro and Nano Photonics for life Sciences*” 4-22 Feb. 2008, ICTP, Trieste, Italy.
- LAM8 & ICO Conference on “*Optics and Laser Applications in Medicine and Environmental for Sustainable Development*” Univ. Of Cape Coast, Ghana”, 19-24 November 2007.
- UNESCO Forum on “*The Impact of Globalization on Higher Education and Research in the Arab States*”, Rabat, Morocco, 25-26 May 2007.
- Training Course, July – September, Trieste, Italy, 2005
- The Seventh LAM Workshop on “*Lasers and its Applications*”, Douala, Cameroon, Dec. 2004.
- Winter College on “*Biophotonics*” 9 Feb.-2nd March 2003, Trieste, Italy.
- LAM6 workshop on “*Lasers and its applications*” Tunisia, 1-17 Dec. 2002.
- Fourth Regional college on “*Modelling, simulations and Optimization*” Kwabena, Accra, Ghana, 1st –12th April 2002.
- ICS course on “*Applied Spectroscopy Techniques and Instrumentation*”, Trieste, Italy, 5th-9th March 2001.
- International Summer College on “*Optics and Photonics*” Iscop 2001, 12-24 August, 2001, Center for applied Physics & Astronomical Research, Tabriz University, Iran.
- Winter School on “*Laser Spectroscopy and Applications*” Trieste, Italy, 19 February-2nd March 2001,
- International Workshop on “*Monitoring of Air Pollution Due to Combustion Process*”, University of Cape Coast, Ghana”, 30th October -4th November, 2000.
- Advanced training course on “*Industrial Laser Applications*, Cairo, Egypt”, 27th May – 8th June 2000.
- International Conference on “*Optical Sciences and Applications for Sustainable Development*”, Dakar, Senegal, 10th –14th April 2000.
- Winter College on Optics, Trieste, Italy, 7- 25 Feb. 2000.
- ICS course on “*Optical Design and Optimization*”, Trieste, Italy, 28th Feb.-3rd March 2000.
- Optical Combustion, Training course, University of Cape Coast, Ghana, June 1999.
- First Regional College on Optics Education for Tertiary Level Teachers and Researchers, University of Cape Coast, Ghana, 26-29th 1999.
- Winter College on “*Optics*”, Trieste, Italy, 9th –27th February 1998.
- The Third Edward A. Bouchet Regional College on Functional analysis and its Application to Differential Equations, Accra, Ghana.
- Workshop on “*The Physics and Modern Applications of Lasers*”, 6th –12th Jan.1996, Khartoum, Sudan.
- Fourth Nile Winter College on Material Science, U. of Khartoum. 1992.

- Third Nile Winter College on Computational Physics, Feb. – Jan. 1989 U. of Khartoum.
- Student's Exchange program, Visit Leiden Laboratories, Nov – Dec 1988 Leiden, Holland.
- Second Nile Winter College on Nuclear Physics, January 1987, U of K, Sudan.

COURSES TOUGHT

Mechanics, Optics, Electricity & Magnetisms, Modern Physics, Heat, Statistical Mechanics, Electromagnetic Theory, Fibre Optics, Advance Optics, Plasma Physics, Laser Physics, Lasers and its application, Biophysics, Spectroscopy, Astronomy, Tissue optics, and Thermodynamics.

Education

1. **Ph.D. Physics**, University of Cape Coast, Ghana. Joint program with ICTP, Italy, 1997-2001.

Thesis: Laser Spectroscopy: the Investigation of the Photon Propagation Inside Highly Diffusing Media, Cape Coast, Ghana.

2. **M.Sc. Physics**, University of Khartoum, 1990-1993.

Thesis: ESR Techniques for Studying Organic Radicals in Room and Low Temperature.

3. **B.Sc. Physics (Hons.)** Second class, University of Khartoum, 1984-1989

Dissertation: X-ray Fluorescence Technique Analysis of some Sudanese herb, Biological Samples.

Organization Membership

- Single Point of Contact for Sudan (SPoCs), IYA 2009,

<http://www.astronomy2009.org/organisation/nodes/national/view/SD/>

- Optics within Life Sciences (OWLS).
- Optical Society of America (OSA).
- Organization for Women in Science for Developing World (OWSDW).
- Sudan Team leader for IUPAP –Women in Physics working group.

<http://wgwip.df.uba.ar/country-contact.html>

- Working Group in Space Sciences in Africa (WGSSA).

- The Electronic OSA Biomedical group.
- Women of Optical Society Of America (WOSA)
- African Astronomy Society (Afas).
- Ghana Science Association

Permanent address

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PWork History

1. Assistance Professor, Faculty of Veterinary Medicine, University of Khartoum, Sudan, 2003 up to date.
2. University of Sudan for Science and technology, part time 2004 -2011.
3. University of Alnaleen, Faculty Of science, 2005.
4. Lecturer, Physics Department, University of Cape Coast, Cape Coast, Ghana, 2001-2003, Part time 1998-2001.
5. Lecturer, Faculty of Veterinary Medicine, University of Khartoum, 1994-1997.
6. Lecturer (part time), Faculty of Agriculture and Forestry, University. of Khartoum, 1995-1996.
7. Lecturer (part time), Faculty of Veterinary Sc. University of Baher Elgazal, 1994-1996.
8. Lecturer (part time), Faculty of Animal production, University of Khartoum, 1994-1996.
9. Lecturer, Faculty of Science & Technology, Gezira University, Sudan, May-June 1992.
10. Teaching Assistant, Department of Physics (part time), University of Khartoum, 1989-1993.

ublications

1. N. A. Ahmed, M. E. Osman, and Tahani S. Shatir ” Women in Medical Physics in Sudan”, AIP Submitted (Team leader).
2. N. Behairy, Tahani Salah and M. Abdelaziz “Gender in Science” TWOWS Proceedings, 449, 2010.

3. Takahiro Hiroi, Peter M. Jenniskens, Janice L. Bishop, Tahani S. M. Shatir, and Ayman M. Kudoda. Bidirectional Visible-NIR and Biconical FT-IR Reflectance Spectra of Almahata Sitta Meteorite Samples, *Meteoritics and Planetary Science*, 1–10, 2010.
4. A. M. Abdelbagi , A. H. Sirelkhatim , W. S. Abdelrahman , M. E. Osman, and Tahani S. Shatir “The Status of Women in Physics in Sudan”, AIP conf. Proc V11119, 175, 2009. (Team leader.)
5. Carraresi S, Shatir, Tahani S M, Martelli F and Zaccanti G. Accuracy of a Perturbation Model to Predict the Effect of Scattering and Absorbing Inhomogeneities on Photon Migration, *Appl. Opt.* 40, 4622-4632, September 2001.
6. Tahani S.M. Shatir. Investigation of Photon Migration Through Highly Diffusing Media in the Presence of Inhomogeneities, Ph.D. Thesis, University of Cape Coast, Cape Coast, Ghana, 2001.
7. Tahani S.M. Shatir .Electron Spin Resonance (ESR) Studies of Glycolic acid,

M.Sc. Thesis, University of Khartoum, Sudan, 1993.

Teaching Methods Meetings

- International. Conference of Physics Education (ICPE9), 18-24th Oct. 2009, Bangkok, Thailand.
- The UNSECO workshop “Active learning on Optics and Photonics” April 2006, Marrakech, Morocco.
- A course on “Educational preparation: instruction technology and improving the teaching skills”, 13th Nov – 16th Dec 2006 Faculty of Education, University of Khartoum, Sudan.
- The UNSECO workshop “Active learning on physics to Undergraduate and High Schools Students, 1-6 September Cape Coast, Ghana.