



Name

Nashwa Eassa

Area of Research/Teaching

My research interest lies in developing new technologies which:

- Enable direct detection of bacteria and water born disease
- Synthesize and characterize self-assembled nanostructure
- Develop devices and sensing systems incorporating micro fabrication and nanotechnology

Biography

Nashwa Eassa was born in Omdurman, Sudan. She is assistant Professor of Physics at Al Neelain University. She undertakes a post-doctoral fellow in Nanophotonics group at Nelson Mandela Metropolitan University (NMMU), funded by the department of Research Capacity Development (RCD) at NMMU. She holds a PhD in physics from the Nelson Mandela Metropolitan University, South Africa and Master of Science in material Physics and Nanotechnology from Linkoping University, Sweden. Her current research focuses on development of Titanium oxide nanoparticles and nanotubes structures i) for water treatment using solar radiation ii) solar water splitting using photoelectric chemical cells (PECs) for the generation of hydrogen from water.

AWARDS

- Elsevier Foundation awards in Mathematics and Physics (2015)
- AGNES Grant for Junior Researchers - supported by AvH and TWAS (2014)
- Research Capacity Development fellowship (RCD), Nelson Mandela Metropolitan University South Africa (2013)
- Organization for Women Scientists for the Developing World (OWSD) Fellowship (2008)
- One of ~550 young scientists selected worldwide to attend the 62nd Lindau Nobel Laureate Meeting (2012)
- Most outstanding poster presentation award in field of material science delivered at SAIP, South African, 2009

Membership

- Founder & President of Sudanese Women in Science Organization (SWSO)
- Vice- President of Arab Region of Organization for Women Scientists for the Developing World (OWSD) (2016-2020)
- South African Institute of Physics (SAIP)

Nashwa Eassa

Assistant Professor of
Physics

Al Neelain University ,
Khartoum - Sudan

Research Involvement :

- Antibacterial effect of
TiO₂ Nanoparticles
- Use of high and low
voltage in water
treatment

Research Interests

- Enable direct detection of bacteria and water born disease
- Synthesize and characterize self-assembled nanostructure
- Develop devices and sensing systems incorporating micro fabrication and nanotechnology



Khartoum City



Establishment of Sudanese Women in Science Organization SWSO



OWSD Vice Presidents for Arab Region 2016-2020



Establishment of Organization for Women in Science for Developing World– Sudan National Chapter (OWSD –SNC)

