

NANOAFNET ONGOING PROJECTS

2008

NANOsciences African NETWORK

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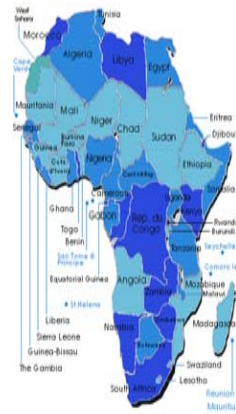
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NANOsciences



NETwork

1. Ongoing Research Projects within the *NANDafnet*

During this financial year of 2008, *NANDafnet* within a fund matching-type with the African Laser Centre program, is currently training about 17 juniors whereby the sponsored sojourns are about 3-6 months up to 1 year. The junior and senior fellows who are being promoted via this program are about 17 from 11 different countries. *NANDafnet* support have been granted to the following fellows:

- Mr. Adura ABIONA *-Nigeria*
«Electroluminescent-PEO based nano-composites fibers by electro-spinning»
Obafemi Awolowe University-Ife Ife, Nigeria
MsC: March 2008
- Dr. John AJAO *-Nigeria*
«Composites Nano-fibers by electro-spinning »
Obafemi Awolowe University-Ife Ife,
Senior Visiting Scientist
- Mr. Samuel CHIGOME *- Botswana*
« Vanadium porphyrins-PEO composites nanofibers by electrospinning».
University of Botswana, Chemistry Dept.-Gaborone,
PhD: September 2008
- Mr. Bala Diop NGOM *-Senegal*
«W and Mo doped zinc oxide by pulsed laser deposition»
University of Cheikh Anta-Diop-Dakar
PhD: September 2007
- Dr. Evariste MINANI *-Rwanda*
«Optical and electrical properties of ZnO and ZnO:Sn Nano-Propellers»
Kigali Institute of Technology-Kigali, Kigali
Senior Visiting Scientist
- Dr. Ouassini NEMRAOUI *-Algeria*
«nano-Materials for Photonics and Sensing Applications»
Currently associated with the University of Zululand
Senior Visiting Scientist
- Dr. Touhami MOKRANI *-South Africa*
«Nafion Based Nano-Materials & Fuel Cells Technology»
Currently associated with the University of South Africa
Senior Visiting Scientist
- Prof. Alain GIBAUD *-France*
«Nano-Materials by X-rays and Synchrotron Radiations Investigations »
University of Le Mans, Le Maine-France
Senior Visiting Scientist
- Dr. Lionel VAYSSIERES *Japan*
«Functional Nano-Materials by Hydrothermal Synthesis for Energy Applications»
National Institute for Materials Science-Tsukuba, Japan

Senior Visiting Scientist

- Dr. Jean Bosco KANA KANA *-Cameroon*
«Novel class of tuneable and reversible Au-VO₂ ultrafast nano-plasmonics»
University of Yaounde-Yaounde-Cameroon
PhD -«Ongoing research: 2007-2009»

- Mr. Praise SIBUYI *-South africa*
«Irradiation effects in nano-structured SiC systems».
University of Western Cape, Physics and engineering Dept.,
PhD -«Ongoing research: 2007-2009»

- Mr. Bongani MTSHALI *-South africa*
«Investigation of physical properties of C₆₀ nanorods synthesized by molecular recognition»
University of Zululand, Physics and engineering Dept.
PhD -«Ongoing research: 2007-2009»

- Mr. Joseph Makgamathe SITHOLE *-South africa*
«Tubular nano-sized ZnO: linear & nonlinear physical properties »
University of Kwazulu-Natal-South Africa
PhD -«Ongoing research: 2007-2009»

- Mr. Cebo DLAGAMANDLA *-South africa*
«Nano-structured tubular Fe₂O₃ and their application for water splitting and hydrogen sensing»
University of Zululand-South Africa
PhD -«Ongoing research: 2007-2009»

- Mr. Jean Bertrand SONE *-Cameroon*
«Hydrogen Sensing in Nano-structured WO_{3-δ} Nano-systems»
Also at the University of Western Cape, Chemistry Dept.
PhD -«Ongoing research: 2008-2010»

- Mr. Safal FALL *-Senegal*
«In-situ Growth of ZnO nano-Rods by Synchrotron Radiations Techniques»
University of Dakar-Fann & University of Le Maine-Le Mans.
PhD -«Ongoing research: 2008-2010»

- Mrs. Precious MONGKAWETSI *-South africa*
«Engineering & investigations of Photonic Properties of Self Assembled porphyrin Nanorods and porphyrins-Polymers Nano-Composites»
Stellenbosch University, Chemistry Dept.
PhD -«Ongoing research: 2008-2010»

- Mrs. Mpho MAKGALE *- South africa*
«Irradiation effects in SiC and carbon based nano-systems for PBMR applications»
University of Western Cape, Physics Dept.

PhD -«Ongoing research: 2008-2010»

- Mr. Phillip SCHELOGELA *-South africa*
«Novel Class of TCOs: VO₂- ZnO nano-composites by ion beam implantation and optical tunability»
University of western Cape, Physics Dept.

PhD -«Ongoing research: 2007-2010»

- Mr. Lesiba CELE *South africa*
«Nano-structured vanadium dioxide for thermochromic applications»
University of Zululand, Physics and engineering Dept.

MSc- Ongoing research: 2008»

- Mr. Lesiba KHUMALO *South africa*
«Nano-scaled ZnO Systems for Gas Sensing Applications»
University of Zululand, Physics and engineering Dept.

MSc- Ongoing research: 2008»

- Dr. Alexander NECHAEV *-Russia*
«nano-porous track etched membranes»
Ioffe-Institute, Moscow

PostDoctoral fellow -«Ongoing research: 2008-2009»