NANOAFNET
ONGOING PROJECTS
2008
NANOSciences African NETwork

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NANOsciences NETwork
1. Ongoing Research Projects within the NANOafnet

During this financial year of 2008, NANOafnet 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. NANOafnet 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 WO3-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»