



AEROAFRICA-EU WORKSHOP

PROMOTING AFRICAN AND EUROPEAN RESEARCH COOPERATION IN AERONAUTICS AND AIR TRANSPORT

14 – 15 APRIL 2011

**The Professional Development Hub,
University of the Witwatersrand, Johannesburg
92 Empire Road, Braamfontein, South Africa**

Thursday 14th April 2011

08h30	Registration, Tea and networking
09h00	Welcome
09h10	Background to the project and workshop
09h30	The Joint Africa-EU Strategy; INCO-Nets for Africa and ERA-Net for Africa
10h30	EU aeronautics research priorities, FP7, Common Strategic Framework (FP8)
11h30	SA aeronautics research priorities
12h15	Aeronautics and air transport research activities and priorities in Tunisia
12h25	Aeronautics and air transport research activities at the Preparatory Institute for Engineering Studies El-Manar
12h45	Aeronautics and air transport research activities at the National Engineering School of Tunis
13h05	LUNCH
14h00	Aeronautics and air transport research activities and priorities in Uganda
14h10	Aeronautics and air transport research activities at the Mbarara University of Science and Technology
14h30	Aeronautics and air transport research activities and priorities in Kenya
14h40	Aeronautics and air transport research activities at Jomo Kenyatta University of Agriculture and Technology, Department of Mechatronic Engineering
15h00	Aeronautics and air transport research activities at the Kenya Polytechnic University College, Department of Aeronautical and Aviation
15h20	Aeronautics and air transport research activities and priorities in Egypt



- 15h30 Aeronautics and air transport research activities at Cairo University, Giza
- 16h00 Moderated discussion on identification of areas for prioritization / collaboration (bilateral and FP)
- 16h40 Feedback and Workshop Declaration
- 17H00 CLOSE**

Friday 15th April 2011

09:00 Breakfast networking meeting with South African aeronautics and air transport researchers with presentations by European and African experts

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AFRICAN AND EU DELEGATES

10:30 Leave for Pretoria

12:00 Visit to Aerosud (www.aerosud.co.za)

14H00 LUNCH MEETING AT DST

15:30 Visit to the Council for Scientific and Industrial Research (CSIR – <http://www.csir.co.za>)

17H00 CLOSURE OF WORKSHOP

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SOUTH AFRICAN DELEGATES

10:30 Discussion on Concept Note on *Policy Framework for South African Aeronautics and Air Transport R&D*

13H00 LUNCH

15:30 Visit to the Council for Scientific and Industrial Research (CSIR – <http://www.csir.co.za>)

17H00 CLOSURE OF WORKSHOP

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AFRICAN RESEARCHERS - BIOS

PROF TAREK LAZGHAB

Prof Tarek is Assistant Professor at the Preparatory Institute for Engineering Studies El-Manar, Tunis, **Tunisia**. He obtained his PhD from Florida International University, Miami. His dissertation was on *Modelling of Shape Memory Alloys with Plasticity*. Prof Tarek undertook his Post Doctoral Research Fellowship at the Florida International University, where his research studies encompassed *development of a finite element implementation of shape memory alloy constitutive model with plasticity effects; finite element analysis of electronic components (ball grid arrays) in extreme environments; finite element analysis of widespread fatigue damage in aircraft panels; composite material design and trade studies for missile components and design and thermal characterization of a composite heat exchanger*. Prof Tarek also assisted in organising the first USA-North Africa Regional Workshop on Nanostructured Materials and Nanotechnology.

PROF FARAH ZEGHAL MANSOUR

Prof Zeghal Mansour is Director and Assistant Professor of the Industrial Engineering Department at the National Engineering School of Tunis (ENIT), Tunisia. She obtained her Ph.D. (Operation Research and Computer Science) from the University of Pierre and Marie Curie, Paris VI in France. Her dissertation was on *Solving huge integer linear programs with application to crew assignment in air transportation*. Prof Zeghal Mansour was one of the recipients in 2008 of the IFORS Prize for "OR in Development" for *"Integrated Aircraft Fleeting and Routing at TunisAir"*.

DR EDWARD JURUA

Dr Jurua is Head of Department and Lecturer at in the Department of Physics at Mbarara University of Science and Technology, **Uganda**. He obtained his postgraduate qualifications from the University of the Free State and the University of Cape Town in South Africa. Dr Jurua's research interests are in *Space Physics (Global Satellite Navigation Systems Applications in Communication Navigation and Positioning and Astrophysics)* and in *Stallar Evolution (Magnetohydrodynamic Instabilities in Accretion Discs is Close Binary systems)*.



MR ANTHONY KARIUKI MUCHIRI

Mr Muchiri is a Lecturer in the Department of Mechatronic Engineering, Jomo Kenyatta University of Agriculture and Technology, **Kenya**. He obtained his MSc (Aerospace Engineering) from Delft University of Technology in the Netherlands. His research interests and area of specialisation are in *Aircraft Maintenance Management and Technology*. He is currently undertaking research on image recognition in RADAR.

MR PATRICK IRUNGU MUIRURI

Mr Muiruri is a lecturer at **Kenya** Polytechnic University College, Department of Aeronautical and Aviation in the School of Engineering, Science and Technology. He obtained his MSc Aeronautical Engineering degree (Aircraft and helicopter field) from the Samara State Aerospace University in Russia. He also participated in *Industrial practice* at Aerovolga Company in Russia. Mr Muiruri's research interests are in *modification of the wing to increase aerodynamics characteristics and fuel holding capacity and aviation safety*.

PROF MOHAMMAD TAWFIK ABOELSOUD

Prof AboElSooud is an Assistant Professor in the Aerospace Engineering Department, Faculty of Engineering, Cairo University, Egypt. He obtained his PhD in Mechanical Engineering from the University of Maryland. Prof AboElSooud currently lectures in structural analysis, mechanics of composite structures and structure vibrations.