

# Keynote Speakers

Our most sincere thanks go to all of the conference keynote speakers who shared with us their expertise and knowledge and also for making available to us their valuable time and efforts during the conference.

## **SATURDAY 24th JANUARY 2009 (10:00 – 11:30)**

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### **Professor Gordon Mackerron, Director, SPRU (Science and Technology Policy Research), University of Sussex, UK**

Prof. MacKerron is the Director of SPRU (Science and Technology Policy Research), University of Sussex. He was also the Director Sussex Energy Group since April 2005, following four years as Associate Director, NERA Economic Consulting, London and an earlier career for over 20 years at SPRU. He is an economist specialising in energy and environmental economics, with degrees in economics from the Universities of Cambridge and Sussex. His academic career has specialized in the economics and policy issues of electricity and especially nuclear power, in which he has published and broadcast widely. He has frequently been Specialist Adviser or invited witness before House of Commons Select Committee inquiries on energy subjects. From June to December 2001 he was on secondment to the PIU, Cabinet Office, as Deputy leader of the UK Government's Energy Review team. He has subsequently assisted the UK Department of Trade and Industry (DTI) in its consultation process leading up to a major Energy White Paper released in February 2003 and subsequently advised DTI on security of supply and low carbon technology strategies. Professor MacKerron has also been the expert witness on economic issues for the Irish Government in its two international court cases on the subject of Sellafield before the Permanent Court of Arbitration in the Hague in 2002 and 2003. Professor MacKerron chaired the Energy Panel, DTI/OST Technology Foresight Programme (1995-98) and since December 2003 has been the Chair of the Committee on Radioactive Waste Management, an independent body charged with recommending the best approach to long-term radioactive waste management to the UK Government.

### **Dr. El Tayeb Mustafa, Director, Division for Science Policy and Sustainable Development, United Nations Educational Scientific and Cultural Organization (UNESCO), France**

Dr. Mustafa is the Director of the Division for Science Policy & Sustainable Development at the United Nations Educational Scientific and Cultural Organization (UNESCO). He is a Founding Member of the Arab Academy of Sciences, a Corresponding Member of the Royal Academy of Overseas Science (Belgium), the Secretary of the UNESCO-EOLSS Joint Committee in Charge of the Encyclopedia of Life Support Systems and Editor-in-Chief of the UNESCO Science Re-

port. Dr. El Tayeb holds an Engineering Diploma from St. Petersburg (Leningrad) Mining Institute, a Master and a PhD in Geophysics from Bordeaux I University in France. He started his career in 1974 as a mining engineer/ geophysicist at the Geological Survey Department of the Sudan. His work covered the utilization of geophysics to civil engineering works, engineering geology and the exploration of mineral resources in the various regions of the country. Between 1976 and 1980 he worked as a researcher in the Red Sea. His research covered areas such as marine seismic reflection, airborne gravity and magnetic surveys of the central Red Sea, development and adaptation of the shallow water seismic techniques to deep-sea research. Dr. El Tayeb joined UNESCO in 1981 as a programme specialist in charge of the development scientific research and higher education in the Arab region. 1986, Dr. El Tayeb assumed the post of the Chief of Section responsible for Arab States and then became responsible for both Arab States and Africa Sections. During this period he supervised the development of a number of national S&T plans and projects. Between 1989 and 1996 he worked as the Chief of Development Analysis and Operations. His functions included assistance to UNESCO Member States in formulating science policies, strategies as well as the development of partnerships between universities and industries and the evaluation of higher education institutions and universities. In 1996 Dr. El Tayeb was appointed Director of the Division of Policy Analysis & Operations of UNESCO and given the task of building UNESCO's capacity in this area. Since then UNESCO reinstated the programme of science technology and innovation policies. The Division of Science Analysis & Policies launched an ambitious programme of assistance to member States in the evaluation of their national systems of innovation. Several International/regional conferences, workshops and symposia were organized to disseminate best practices in this area.

### **Professor Geoffrey Oldham (CBE), Former Chairman Board of Trustees, Science and Development Network (Scidev.net), UK**

Prof. Oldham (CBE) is the Chairman of the Board of Trustees of the Science and Development Network (Scidev.net) and an Honorary Professor with SPRU at the University of Sussex, UK. Prof. Oldham trained as a geophysicist and spent several years in the exploration research laboratories of Standard Oil Company of California. He left the oil company to accept a Fellowship which enabled him to study the Chinese language and to initiate a review of science and technology policy in several Asian countries. After a year with the Scientific Directorate of OECD he helped start the Science Policy Research Unit at the University of Sussex and was its Director from 1980 to 1992. He was also a member of the team which designed and drafted the Act of the Canadian Parliament which established the International Development Research Centre. He directed the Centre's Science and Technology Policy Programme for ten years and served as Science Adviser to the President of IDRC from 1992 to 1996. Prof. Oldham has served on numerous science and technology policy advisory bodies. He was a member of the Hong Kong Committee for Scientific Co-ordination and represented Hong Kong at the 1963 UN conference on Science and Technology for Development. He was chairman of the UN Advisory Committee on Science and Technology for Development and the UK delegate to the UN Commission on Science and Technology for Development. He chaired the Commission's working groups on Gender and Science and Technology, and on Information Technologies and Development. He has continued to be

a member of the Commission's Gender Advisory Board. He also served on the WHO's Advisory Committee on Health Research. He participated in the IDRC science and technology reviews of South Africa, China, and Vietnam. He was also a member of the international panel appointed to review ICSU in 1996. Although Prof. Oldham has worked in many developing countries his main interest has been with science and technology development in China. He was an adviser to that country's Minister of Science and Technology from 1997 to 2000.

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## **SATURDAY 24th JANUARY 2009 (14:00 – 15:30)**

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### **Dr. Kamal Abdelgadir Ahmed, Undersecretary, Federal Ministry of Health, Sudan**

Dr. Ahmed is a medical graduate of the University of Khartoum in Sudan, an Obstetrician & Gynaecologist by training and a fellow of the Royal College of OBS/GYN of the UK. He worked as a specialist consultant in the field of infertility treatment in Bournemouth in UK, before finally returning to settle in Sudan. The area of his special interest, in addition to his main speciality in infertility treatment, is Medical Education and Continuous Professional Development for the working physicians. His interest in promoting medical education is made especially important following his new administrative rules in Sudan. He is currently the undersecretary for the Federal Ministry of Health in Sudan, and actively involved in the strategic planning of health services and the development of quality and sustainable medical profession in Sudan.

### **Dr. Robin Ireland, Consultant Haematologist, Kings College Hospital London, UK**

Dr. Ireland is a Consultant Haematologist at King's College Hospital. He has been the Lead Clinician for the Haematological Malignancy Diagnostic Centre (HMDC) since March 2007. The HMDC provides an integrated diagnostic and reporting service for haematological cancers, supported by a custom-built IT system. King's HMDC has been a regional centre for diagnostic services for over 20 years, providing Immunophenotyping, Cytogenetic and Molecular Diagnostic services to haematologists from 16 hospitals in Southeast England, covering a population of approximately 4.5 million. There has been a steady rise in referrals (now over 12,000 referrals and 18,000 samples per year) to the King's laboratories, from clinicians who require increasingly sophisticated and accurate haematological investigations for diagnosis, prognosis and disease monitoring. The Flow Cytometry laboratory now processes over 3500 samples/year for Immunophenotyping, the Cytogenetics/FISH laboratory is one of the largest in the UK with 10 cytogeneticists analysing over 3500 samples/year by conventional cytogenetics and FISH techniques and the Molecular Service tests over 4000 samples/year. The department has a strong research base with particular interests in the Myelodysplastic Syndromes, Chronic Lymphocytic Leukemia and Myeloma. Dr Ireland is an examiner for the Royal College of Pathologists and Co-Chair of the national Integrated Haematopathology Directors Forum as well as being a member of the haematology section of the National Cancer Intelligence Network. Previously he was a consultant Haematologist at Queen Elizabeth Hospital between 1989 to 2007 and during this period he held various prominent positions including Director of Pathology 1993-1999, Medical Director

between 1999 to 2004, Trust Lead Cancer Clinician 2005-2007, Honorary Senior Lecturer/Consultant, Guy's and St Thomas NHS Trust 1990-2007. In these roles he has implemented major projects in aspects of clinical, laboratory and managerial services for the NHS.

### **Dr. Ihab Tewfik, University of Westminster, UK**

Dr. Tewfik is the Course Leader for BSc. (Honours) Human Nutrition, Human and Health Sciences Department, University of Westminster. Besides his biochemistry background, Ihab holds Master and Doctorate in Public Health, Nutrition Department, University of Alexandria in addition to PhD from London South Bank University. As Registered Practitioner in Higher Education - UK, Dr Tewfik has 16 years experience teaching Public Health Nutrition and related subjects in a number of academic institutions. As fellow of the Royal Institute of Public Health (FRIPH) as well as Registered Practitioner in Higher Education-UK, Dr Tewfik has 17 years experience teaching Public Health Nutrition and related subjects in a number of academic institutions. Ihab has carried out 11 research projects for UNICEF-UN in aspects of public health nutrition and 2 Food Standards Agency (FSA) projects on food safety and has published a number of publications in refereed journals. Ihab has worked as international consultant for BC and various Ministries of Health in the Middle East for more than 10 years. As a Registered Public Health Nutritionist-UK, Ihab has organised several international conferences, workshops, CPD and short training courses in Nutrition and Public Health. Ihab is actively collaborating with the King Saud University, University of Alexandria, University of Surrey, the Vaal University of Technology, University of Kuwait and University of Cairo, and NGOs on public health nutrition intervention programmes employing dietary diversification and behavioural modification approaches. Ihab is the Executive Editor of the International Journal of Food Safety, Nutrition and Public Health as well as member of the Editorial Advisory Board (EAB) of some renowned international journals; Nutrition Bulletin - British Nutrition Foundation and the WRSTSD. In 2006, Ihab was designated as fellow of the Royal Society of Public Health (FRSPH). Presently, Ihab holds the full title as Associate Professor at University of Alexandria, Alexandria, Egypt.

### **SUNDAY 25th JANUARY 2009 (09:15 – 10:45)**

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### **Professor Mohamed H. A. Hassan, Executive Director, Academy of Sciences for the Developing World (TWAS), Italy and President of the African Academy of Sciences (AAS)**

Prof. Hassan serves on a number of committees in other organizations world-wide. He was born in the Sudan in 1947, and holds a Ph.D. in Plasma Physics from the University of Oxford, UK (1974). A former professor and dean of the School of Mathematical Sciences at the University of Khartoum, he received the order of scientific merit of Brazil. He is a fellow of TWAS, AAS, and the Islamic Academy of Sciences as well as honorary member of the Colombian Academy of Exact, Physical and Natural Sciences, corresponding member of the Belgian Royal Overseas Academy of Sciences, and foreign fellow of the Pakistan Academy of Sciences. His research areas include theoretical plasma physics, physics of wind erosion and sand transport. He is married and has two daughters and a son.

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**Professor Dave Cavanagh, Head of Corporate Affairs and Communication, Institute for Animal Health, UK**

Prof. Cavanagh (BSc, PhD, DSc) is the Head of Corporate Affairs and Communication for the Institute for Animal Health, Editor-in-Chief of the journal *Avian Pathology*, Member of the Executive Committee of the World Veterinary Poultry Association, and Chairman of the UK Poultry Disease Group. He has been Chair of the Coronavirus Study Group of the International Committee on the Taxonomy of Viruses; co-organiser of two international symposia on corona- and related viruses (1989 and 2008); and Secretary of the British Veterinary Poultry Association. Dr Cavanagh's first degree was in microbiology (University of Reading; 1969-72) after which he specialized in virus research for his PhD. Specifically he studied foot-and-mouth disease virus, looking at the process by which the virus attached to and entered cells (1972-75). Following a brief spell in immunology at the Middlesex Hospital Medical School, London, he returned to virology, at the University of Birmingham, studying influenza virus (1977-79). In 1979 he joined the Houghton Poultry Research Station, Cambridgeshire, to study infectious bronchitis virus (IBV) and, later, turkey rhinotracheitis virus (avian pneumovirus, APV). Later the research station became part of the current Institute for Animal Health. In 1992 he transferred to the Compton Laboratory of the Institute for Animal Health, Berkshire, where he became head of the Coronavirus Group, working mostly on IBV but also on APV. His research included epidemiological aspects of IBV, including IBV-like viruses in other avian species, and APV. The major part of his work was on more fundamental aspects of IBV – replication, pathogenicity and induction of protective immunity – using an 'infectious DNA clone' of IBV. This enabled very precise mutant viruses to be made. Dr Cavanagh has published over 90 papers in peer-reviewed journals, 16 review articles, 26 chapters in books, edited one book and has given over 70 invited lectures worldwide.

**Dr. Kerry Thomas, Associate Director for Research and Training, Environmental Knowledge Transfer Network, Oxford University, UK**

Dr. Thomas is the Associate Director for Research and Training at the Environmental Knowledge Transfer Network at Oxford University. His main role is to catalyse innovation and uptake of environmental technologies, improve knowledge transfer and inform government policy. Prior to this he was Head of Environmental Research and Senior Lecturer at the Technology Innovation Centre at Birmingham City University. Kerry is an experienced Chemical and Public Health Engineer who has had 20 years experience in the Water Industry with Thames Water and has considerable project management and consultancy experience overseas in Catchment Management and Water Quality Modelling.



# Contributors Profile

## CHAIR

### **Dr. Allam Ahmed, University of Sussex, UK**

Dr. Ahmed holds a Ph.D. in Technology Transfer with backgrounds in Agriculture, Science, Economics, Management, Marketing and Strategy. He is a Fellow (FCIM) and Chartered Marketer (CM) of the Chartered Institute of Marketing, UK, listed in the WHO'S WHO IN THE WORLD 2009 and recipient of several international awards and medals for contributions to international business/management research including the Royal Agricultural College (UK) Scholarship and Prestigious Book Prize for Best MBA/MSc Dissertation. Allam has a substantial experience of research and teaching in Europe, Africa and the Middle East and has always received highly rated evaluations in both teaching and research. He is based at the world leader in research, consultancy and teaching in the field of Science and Technology Policy Research (SPRU) in the Freeman Centre, University of Sussex, Brighton, UK. He is the Founding Director for Sussex MSc International Management. Prior to Sussex Allam has been fortunate enough to have a wide variety of teaching experiences at several universities in the UK including East London, Napier, Edinburgh, Leicester, Chartered Institute of Marketing, Regents Business College London, etc. He is the Founder of World Association for Sustainable Development (WASD) and Sudan Knowledge; Founding Editor of World Review of Science, Technology and Sustainable Development (WRSTSD); World Review of Entrepreneurship, Management and Sustainable Development (WREMSD) and International Journal of Food Safety, Nutrition and Public Health (IJFSNPH) and serves on the Editorial Board of five international journals in Business, Entrepreneurship, Marketing, Management, Strategy & International Business. He has consulted and provided advisory services for several major public and private institutions and worked with international organizations. Expert Advisor to the European Commission; United Nations, World Bank, FAO, UK Economic and Social Research Council (ESRC); The Dutch Research Council, Oxford University Press, several African Universities and Ministers and companies all over the world.

## TRACK CHAIRS

### **Dr. Abu-Bakr Abu-Median, Institute for Animal Health, UK**

Dr. Abu-Median is a Veterinary Scientist and a Molecular Microbiologist at the Institute for Animal Health (IAH), UK. He graduated from the University of Khartoum, Faculty of Veterinary Medicine in 1993. After working at the Faculty as a Teaching Assistant, as well as a Private Practitioner, he moved to the UK for postgraduate studies (MSc - University of Nottingham, 1999 and PhD - University of Bristol, 2003), both in Molecular Microbiology. Towards the end of his PhD research, Dr Abu-Median was appointed as a Research Scientist at IAH, and throughout his

research career, he published papers in leading peer-reviewed journals and participated in several scientific conferences and workshops in the UK, Europe and USA. Abu-Bakr is a member of the Society for General Microbiology (UK), The Association of Veterinary Teaching & Research Work (UK) and Sudan Veterinary Association. He is also an honorary member of The Sudanese Academy of Young Scientists (SAYS) and is one of the Review Editors of SAYS Newsletter. Dr Abu-Median's current research involves molecular characterisation and diagnosis of novel and emerging viral pathogens with emphasis on avian viruses. This is achieved by developing and using cutting-edge technologies.

### **Dr. Mohammed Ali, Scientific and Technology Solutions Ltd, UK**

Dr. Mohammed was born and educated in Sudan (at Sudan University for Science and Technology) and also studied in the UK (at the University of Salford – Manchester). Mohammed holds a PhD in Analytical Chemistry. He has significant experience in educational, analytical and environmental Chemistry Sectors, has worked as a senior chemist for an Environmental Lab in the UK for more than six years and is a specialist in hyphenated chromatography, environmental monitoring applications, method development and validation of analytical methods. He has many published works (eg for 'International Journal of Environmental Analytical Chemistry'), oral and poster presentations, meetings, conferences and seminars. He is a member of the Royal Society of Chemistry (MRSC), an RSC committee member representing industry for the Central Yorkshire Section, as well as RSC Consultancy Group member. He is a member of the British Mass Spectrometry Society (BMSS) and Pyrethroid Method Development Group on Analytical Methodology Centre. He has been involved with many research programmes and studies. Currently Dr Mohammed is a Director of Scientific and Technology Solutions (SATS Ltd), a UK based company set up to provide technical solutions - by provision of information, advice and scientific/technical based services.

### **Dr. Adil Dafa'Alla, Airbus UK Ltd, UK**

Dr. Dafa'Alla has graduated in Mechanical Engineering from the University of Khartoum, Sudan in 1981. He then did his postgraduate studies at the University of Manchester Institute of Science and Technology (UMIST) in England, where he was awarded his Ph.D degree in 1988. Currently, Dr. Dafa'Alla is a specialist member of the High Lift Devices Group at Airbus UK Ltd. His responsibilities include *the development and application of CFD to aircraft high Lift and associated flows*. Prior to his employment at Airbus in 1996, Dr. Dafa'Alla has a vast CFD experience at postdoctoral level both at UMIST and the Imperial College of Science, Technology and Medicine – University of London, where he co-authored the 2-equation  $q$ -(???) model of turbulence together with Dr. M.M. Gibson. His current research interest in wake vortices behind aircraft covers both the aircraft safety aspect as well as airport capacity planning issues. His research activities, covering finite element, finite volume and turbulence modelling issues, are reported in a number of journals and conference papers in addition to many technical reports.

### **Dr. Ihab El-Hemaidi, Queen Elizabeth Hospital London, UK**

Dr. El-Hemaidi is a haematologist working for the last 5 years at Queen Elizabeth Hospital. Currently he is the lead in treatment of Lymphomas and stem cell transplantation at Queen



Elizabeth Hospital. Dr El-Hemaidi holds MBBS from the University of Khartoum; he also holds the Membership of the Royal College of Physicians (MRCP UK) and the Fellowship of the Royal College of Pathologists (FRCPath). Dr. El-Hemaidi is also a Fellow of the Royal Society of Medicine, member of the British Society of Haematology and the American Society of Haematology. He worked and trained for 5 years in Sudan in general medicine before moving over to the UK. In the UK Dr. El-Hemaidi succeeded in the MRCP and after achieving this membership he trained in haematology at the Guy's, St Thomas's and Kings College Hospitals rotation at the level of a Specialist registrar. He worked in both academic and service delivery settings.

### **Prof. Suad Sulaiman, Sudanese Environment Conservation Society, Sudan**

Prof. Suad, a graduate from the Faculty of Science, University of Khartoum, holds an MSc (Medical Parasitology) from London School of Hygiene and Tropical Medicine and a Ph.D. from University of Khartoum. Prof. Suad worked as a parasitologist at the Bilharzia Research Unit, National Health Laboratories, Sudan, for many years. She contributed to many research projects on water-borne diseases, supervised many post-graduate candidates and participated in many conferences both local and international and acted as adviser to several WHO committees. Prof. Sulaiman was seconded to the National Centre for Research and was director of the Institute of Tropical Medicine Research for six years. She retired from Ministry of Science and Technology in 2002 and worked as a freelance adviser on health and environment. Prof. Sulaiman is an active member to the Sudanese Environment Conservation Society and several other non-governmental organizations. Prof. Sulaiman currently holds the position of Academic Secretary at Nile College, a private institution.

## **FULL PAPERS AUTHORS**

### **Dr. Safa Abdalla, University College Dublin, Ireland**

Dr. Abdalla holds a primary degree in Medicine and an MD in Community Medicine from University of Khartoum. She is currently a quantitative researcher in University College Dublin, School of Public Health and Population Science. She completed the Irish Part 1 of the Faculty of Public Health, and is currently working towards Part 2 submission. She is a registered Consultant of Community Medicine in Sudan. Her major interest is in measuring population health using summary measures. She undertook the first Burden of Disease Analysis in Sudan, and as a member of the Sudan Health Consultancy, she aims to continue her work in that area.

### **Ashraf Abdalla, University of Nottingham, UK**

Researcher Ashraf holds a Master of Science (Pharmaceutical microbiology) from Faculty of Pharmacy and Bachelor of Veterinary Sciences (B.V.Sc.) from Faculty of Veterinary Science, University of Khartoum. He is a PhD student, School of Pharmacy, University of Nottingham, UK. He is interested in investigating the Sudanese medicinal plants for their anticancer, antimicrobial and wound healing activities.

**Dr. Muna Abdel Aziz, Sheffield Primary Care Trust, UK**

Dr. Abdel Aziz is a Consultant in Public Health Medicine with NHS Sheffield, where she is the public health lead for long term conditions and older people. Dr Abdel Aziz holds the MBBS and MD with distinction from University of Khartoum, MPH (Nottingham), PhD (Cambridge), and a Fellow of the UK Faculty of Public Health. She worked in academic and service settings in the Sudan and UK, with experience in teaching, research, strategy development, maternal and child health, medical statistics, health information systems, and health impact assessment of airports. She is a founding member and Secretary of the Sudan Health Consultancy group.

**Dr. Mayada Abu Affan, Dudley Primary Care Trust, UK**

Dr. Abu Affan graduated from the Faculty of Medicine, University of Khartoum in 1989. She completed the MD training in Obstetrics and Gynaecology in 1995. She worked as a consultant Obstetrician and Gynaecologist in Sudan for two years before coming to the UK, where she worked in Obstetrics and Gynaecology for four years and obtained the membership of the Royal College of Obstetrician and Gynaecology. She completed UK public health training and was added to the UK GMC Specialist Register in 2006. Currently she works as a Consultant in Public Health Medicine in Dudley responsible for maternal and child health and sexual health.

**Rasha Alhaj, Cancer Research-UK, UK**

Rasha Hold a BSc. in Biological Science (UAE University, UAE) and MSc. in Chemical Pathology (University of Putra, Malaysia). I have been working as a research assistant in UK (Imperial College), UAE (UAE University) and Malaysia (Institute of Medical research). My Research Interest is in Cervical and Breast cancer. Worked on several projects and have published in international journals and presented in conferences. Currently I am working as a research scientist in a project which involves prediction of cervical intraepithelial lesions by the detection of HPV genotypes. My work is funded by Cancer Research-UK.

**Dr. Sowsan Atabani, University College London Medical School, UK**

Dr. Atabani is a clinical lecturer in the Centre of Virology, UCL Medical School. Following graduation from the Faculty of Medicine, Khartoum, she trained in infectious diseases and clinical microbiology and virology at the London School of Hygiene & Tropical Medicine. She has worked extensively in infectious diseases in population-based health projects in West Africa and the USA.

**Dr. Ishraga Awad, West Midlands Health Protection Agency, UK**

Dr. Awad studied Medicine at University of Khartoum and an MPH from Nottingham University. She is a Member of the UK Faculty of Public Health, and currently a Consultant Regional Epidemiologist, Health Protection Agency, UK. She will shortly take up post as a Consultant in Public Health Medicine with Sandwell Primary Care Trust in the West Midlands. Her major interest is in the long term health effects of environmental exposures e.g. air pollution, and land contamination. As a founding and active member of the Sudan Health Consultancy group, her special interest is in developing and mainstreaming palliative care services in Sudan.

**Prof. Hammad Bagadi, University of Khartoum, Sudan**

Graduated from University of Khartoum (Faculty of Veterinary Science) with BVSc, MVSc (Khartoum), Dip TVM (Edinburgh) and PhD (Edinburgh). Lecturer & Senior Lecturer (University of Khartoum), Senior Lecturer (on secondment) Ahmadu Bello University (Nigeria), Reader (on secondment) El Fateh University (Libya), Professor & Head Department University of Khartoum, Visiting Professor University of California, Davis and Dean Faculty of Veterinary Science, University of Khartoum. Veterinary Expert for the Arab Organization for Agricultural Development (Kingdom of Bahrain), Part - time Professor Faculty of Veterinary Medicine, University of London and Consultant & Team Leader for the International Fund for Agricultural Development (IFAD).

**Dr. Tracey Bradshaw, University of Nottingham, UK**

Dr. Bradshaw holds PhD in Pharmaceutical Sciences from the University of Aston, 1990. She is currently senior research fellow in the department of Medicinal Chemistry and Structural Biology, School of Pharmacy, University of Nottingham. Her research interests include Investigation of Antitumour activity and mechanisms of action of natural products.

**Prof. David Budgen, University of Durham, UK**

Prof. Budgen is a Professor of Software Engineering at the Durham University, has been involved with both research and teaching on design over many years, and has worked closely with the Software Engineering Institute in Pittsburgh to develop tutorial modules and video-teaching materials on software design. He has authored two previous books, on UNIX and Modula-2.

**Dr. Moneim ElHassan, Peoples Open Access Education Initiative, UK**

Dr. ElHassan studied Medicine at the University of Khartoum, an MSc in International Community Health from University of Liverpool and MPH from University of Nottingham. Dr. ElHassan is currently affiliated to the Peoples-Uni (<http://peoples-uni.org>), and until recently, he was a Clinical Fellow in General Medicine and Occupational Medicine in Stockport. Dr ElHassan previously worked as Research Fellow in the Department of Epidemiology and Population Health, Manchester Medical School, and research in Nepal with University of Liverpool. His current interest is in the use of social marketing techniques and health promotion through art. He designed and delivered an innovative health & art workshop for an organisation working with people with alcohol and drug misuse in the Wakefield area (UK). The feedback from both service users and providers was great. His public health service experience comes from work at Senior House Officer and Specialist Registrar levels in the UK, and formerly with the World Health Organization Essential Drugs programme in Sudan. Dr ElHassan is a gifted artist and published cartoonist. His cartoons are greatly enjoyed by SPHNUK newsletter readers.

**Dr. Maha Ellidir, Liverpool School of Tropical Medicine, UK**

Dr. Ellidir graduated from the Faculty of Medicine, University of Khartoum in 1992. She worked in Sudan for many years in the Omdurman Tropical Disease Hospital. In UK, she completed the Diploma of Tropical Medicine & Hygiene at Liverpool School of Tropical Medicine in 2002. Her

interest is in communicable disease control, and she was attached for one year with the Health Protection Agency in Sheffield. Dr Ellidir undertook the New Researchers Training Programme 2005/06 at Sheffield University, and is starting a PhD with the Liverpool School of Tropical Medicine in 'Testing and counselling for HIV/TB in antenatal clinics in Sudan'.

### **Dr. Basma ElSafi, Queen's Hospital, UK**

Dr. ElSafi studied Medicine at the University of Bucharest, Romania. She is currently working as a Specialist Registrar (SpR) in Medicine at Queen's Hospital, Essex. She holds MBBS, MD (MRCP equivalent), Diploma of the Faculty of Family Planning (DFFP) Part 1, and has started an MSc in Public Health, University of Khartoum. Dr. ElSafi worked in the UK in various disciplines as a clinician including endocrinology, renal medicine, stroke/rehab, chest medicine, cardiology, oncology, haematology, care of the elderly, and obstetrics and gynaecology. She worked in public health at SpR level, mainly in health promotion and project management.

### **Dr. Sumaia Elsayed, Ahfad University for Women, Sudan**

Dr. Sumaia holds a Ph.D. in Medical Entomology with backgrounds in Science and Zoology. She has MSc in applied entomology from Imperial College, University of London, UK. Dr. Sumaia has extensive experience of research and teaching in different institutes in Sudan. She has a quality work on consultancy in both Sudan and the Horn of Africa Region, individually and both national and international teams in the field of Environment and Civil society institutions. She is the Founder of a number of NGOs organizations, Sudanese Environment Conservation Society, Poverty Network, Women empowerment for Peace and Development, etc. Her current interest is in waste management in relation to climate change, natural resource based conflict management, watershed management, and gender issues.

### **Dr. Rida Elkheir, Derby City Primary Care Trust, UK**

Dr. Elkheir studied Medicine at University of Khartoum. He completed public health training in the UK, and holds the Masters in Public Health (Cambridge) and Certificate of Completion of Specialist Training. Dr Elkheir is a Fellow of the UK Faculty of Public Health and is currently a Consultant in Public Health Medicine with NHS Derby City. Dr Elkheir has a particular interest in diabetes, long term conditions and clinical effectiveness. He is active in public health training in the East Midlands region, and active in developing training opportunities for colleagues from Sudan. Dr Elkheir is a founding member of the Sudan Health Consultancy group.

### **Prof. Abdelmoniem Elmardi, University of Science and Technology, Sudan**

Prof. Elmardi is the Dean of the Faculty of Medicine, University of Science & Technology & the Coordinator of the Medical Information Systems Programme, Nile College. He has a special interest in educational technology & health informatics. He was the chairman of the Forum of Sudanese Professionals Working in Oman (FSPWO) 2003-2006. He was a member of Medical Informatics Group (MIG) & the Centre of Evidence-based Medicine (CEBM) in the College of Medicine in Health Sciences in Sultan Qaboos University in Oman. His work with the MIG & the CEBM enabled him to acquire knowledge & expertise in these fields. He was actively involved

in coordinating the efforts of FSPWO in organizing & conduction workshops & other activities pertaining to medical informatics & educational technology in Sudan.

### **Adil El Tigani , Heriot-Watt University, UK**

Adil E Tigani is a management professional; he is the Performance Monitoring Supervisor at Western region Development Council in United Arab Emirates, his role is to measure and monitor the development in the western region and internal performance in the organisation. He also worked as a Quality Specialist and Head of Quality and Support Unit at Planning Department in Dubai Municipality (2003-2008), where he was leading the strategic planning activities and was responsible for Quality Management Systems and Organizational Excellence. He has 15 years of experience with public and private companies in Engineering, Project Management and Quality Management.

### **Prof. Ahmed Fahal, University of Khartoum, Sudan**

Prof. Fahal is a Professor of Surgery, Faculty of Medicine, University of Khartoum. He was graduated from University of Khartoum and trained in General and Vascular Surgery in Khartoum and London. He is a Consultant Surgeon at Soba University Hospital, Sudan. Currently he is the Director of the Self Evaluation and Quality Enhancement, University of Khartoum. He is Director of the Mycetoma Research Centre, Soba University Hospital. He is a member of many learned societies locally, regionally and internationally. He organized many academic activities in the Sudan and in the region. He was coordinator, Human Development program, WHO, Sudan. He has especial interest in medical education, medical informatics and medical ethics. He is a WHO Consultant in Medical Education. Prof. Fahal is actively involved in the teaching and had supervised many of undergraduate and postgraduate students at the University of Khartoum and abroad. He is an external examiner in surgery for many medical schools. He published more than 70 scientific articles, author of a book on mycetoma and many chapters, booklets and guidelines. He was awarded the State of the Sudan Golden Medal for Excellence and the Promotion of Scientific Innovation in Medicine in 2000.

### **Prof. Peter Fischer, University of Nottingham, UK**

Professor Fischer holds PhD in organic and medicinal chemistry, (Macquarie and Deakin Universities). He is currently head of the department of Medicinal Chemistry and Structural Biology, School of Pharmacy, University of Nottingham. His research interests include Cancer drug design against conventional drug targets such as protein kinases and other enzyme targets; medicinal chemistry, including synthetic methodology and molecular modeling and design, structural biology, molecular and cell biology, and pharmacology.

### **Dr. Paul Gardiner, British University Dubai, UAE**

Dr. Gardiner is a senior lecturer at The British University in Dubai. He has established, designed, implemented and taught postgraduate programmes in project management at universities in the UK, Dubai, Italy and Sweden. He is Vice Chairman for APM Scotland and a member of the PMI. He is an external examiner for the University of Bradford and the University of Ulster. He is also

an Honorary Fellow at the University of Manchester. Dr Gardiner has written over 60 journal articles and conference papers, and publishes on project management in a number of top quality journals including, *International Journal of Project Management*, *Total Quality Management and Business Excellence*, *International Journal of Operations and Production Management*, *International Journal of Information Management*, and *Construction Management and Economics*. He has also authored a textbook on project management for *Palgrave Macmillan*.

### **Eng. Elmouiz Hussein, Airbus UK Ltd, UK**

Elmouiz is a Mechanical engineering graduate of the University of Khartoum 2002. He then gained some work experience as a mechanical engineer at a private workshop in Khartoum, Sudan. During this period, he was also working as a part-time teaching assistant at the Faculty of Engineering, University of Khartoum. He subsequently moved to the University of Portsmouth, UK to do his MSc in Advanced Manufacturing Technology (2003-2004). In 2006, he joined Airbus, UK, as a Manufacturing engineer, a position, which he still holds. He is currently assuming the role of requirements manager for the manufacturing of the new A350 model of Airbus Aircraft.

### **Victor Joseph, Doncaster Primary Care Trust, UK**

Victor is a Consultant and Assistant Director of Public Health with Doncaster Primary Care Trust (PCT) in England. He is the PCT lead on capacity building; the local training lead for the Specialist Public Health Training Programme, and Course Director of the Higher Diploma in Applied Health Promotion run collaboratively between the PCT and Sheffield Hallam University. He also sits on the Executive Board of South Yorkshire Collaborative Research Network, part of the UK Research Collaborative Network. His current research interest, as a PhD study with the University of Leeds, is evaluating the effectiveness of telehealth for patients with chronic obstructive pulmonary disease.

### **Dr. Galal Ismail, Bradford College, UK**

Dr. Ismail graduated in optics (Egypt), in optometry (Sudan), MSc in optometry and PhD in optometry at Bradford University (UK). He is a Fellow of the Academy of Higher Education, a Member of the Institute of Learning, and an Associate Member of the Association of British Dispensing Opticians (UK). He is a regular speaker at the optometric scientific union conferences, Makkah Eye Complex, and Khartoum Eye Hospital (Sudan). He is a consultant to the Laser and Optometry Committee at the Sudanese Standards and Metrology Organization. He is a theory examiner in the Association of British Dispensing Opticians (ABDO, UK). His main research interests are screening and monitoring visual functions in ocular and systemic pathological conditions (cataract, glaucoma, age related macular degeneration, diabetes, high blood pressure, thyroid gland).

### **Prof. William Keogh, Heriot-Watt University, UK**

Prof. Keogh is the Enterprise Co-ordinator at Heriot-Watt University, Edinburgh. He was also Head of the Department of Management between 2006 and 2008. He has been leading teaching

and research activities in the area of Science and Technology, seeking to widen access to enterprise teaching across the University. Prior to joining Heriot-Watt, William held the Chair in Entrepreneurship at the Robert Gordon University in Aberdeen (1997-2000), where he was also Deputy Director of Research for Aberdeen Business school. His main research interest lies in the use of knowledge in innovative, entrepreneurial technology-based small firms. He is currently a member of the Editorial Boards of five journals, including the *International Small Business Journal (ISBJ)*, *Small Business and Enterprise Development*, and the *Journal of Strategic Change*. He is also an external examiner for entrepreneurship at a number of leading universities.

### **Prof. Mohamed Khalifa, Omdurman Ahlia University, Sudan**

Prof. Khalifa is currently professor in the Faculty of Environmental Sciences. Member of the Scientific Committee of the Institute of Environmental Science, University of Khartoum. Member of the Staff Promotion Committee for the Ministry of Higher Education and Scientific Research. Vice Chancellor of Omdurman Ahlia University (OAU) (1997-2007), Dean of the Faculty of Environmental Science in OAU (1992-1996), Field Crop Scientist (FAO) in Qatar and Libya (1978-1988) and Wheat Breeder/Agronomist in Gezira Research Station (GRS) and Khashm Elgirba (1962-1978). Prof. Khalifa obtained his MSc Agric Science from the University of Wales, UK and PhD Genetics from the University of California (Davis) USA.

### **Dr. I. Michael Kidd, University College London Hospitals, UK**

Dr. Kidd is a consultant clinical scientist, working in Virology at University College London Hospital. He is a Fellow of the Royal College of Pathologists, UK and was previously based at the MRC Laboratories, Fajara, The Gambia. His research and clinical interests include the diagnosis and management of congenital infections, and respiratory virus infections.

### **Prof. Rodney McAdam, Ulster University, UK**

Prof. in Innovation Management at the Faculty of Business and Management, and Head of the Department of Marketing, Entrepreneurship and Strategy, University of Ulster. Rodney has received The Distinguished Research Fellowship Award from the University of Ulster for his contribution to management and organizational research over the past 12 years. He has a large number of publications (150+) in the area of Knowledge, Innovation, Quality Management, and Business Improvement. He is a regular conference speaker at international conferences and supervises a number of PhD students in the area of Innovation, Quality and organisational change management. He has extensive consulting experience in leading public and private sector organisations throughout the UK and Europe.

### **Dr. Huda Mohamed, West Midlands East Health Protection Unit, UK**

Dr. Mohamed studied Medicine at Ain Shams University, Cairo. She completed the Master in Community Medicine, University of Khartoum, and UK Specialist Training in Public Health. Dr Mohamed is a Fellow of the Faculty of Public Health, and has experience in medical education, leadership development, communicable disease control, prevention and surveillance. She is the Director of West Midlands East Health Protection Unit from 2006, Regional Faculty Adviser

for the West Midlands, and Regional Training Sponsor for the West Midlands Health Protection Agency. She chairs the Sudan Health Consultancy group, and is active in transferring knowledge to Sudan and the Middle East.

### **Shadia Omar, Queen's University Belfast, Ireland**

Shadia is a Research Scientist in Molecular Microbiology at the Veterinary Laboratories Agency (VLA), UK. She graduated from the University of Khartoum, Faculty of Veterinary Medicine in 1999. She moved to the UK in 2000. And after she completed MSc in Medical Microbiology at London School of Hygiene and Tropical Medicine, she worked as a microbiologist in many Research and diagnostic laboratories in the UK and then she was appointed as a Research Scientist at VLA. After a year working in the Virology Department, Shadia has been offered a Med-PhD studentship to study human respiratory system viruses. Shadia is a member of the Society for General Microbiology (UK) and Sudan Veterinary Association.

### **Abdeen Omer, University of Nottingham, UK**

Abdeen is a qualified Mechanical Engineer with a proven track record within the water industry and renewable energy technology. He has graduated from University of El Menoufia, Egypt, BSc in Mechanical Engineering in 1982. Working as Chief Mechanical Engineer for National Water Equipment Manufacturing Co. Ltd. and as Assistant Researcher for National Council for Research/Energy Research Institute, Sudan.

### **Dr. Siddig Omer, University of Nottingham, UK**

Dr. Omer is a lecturer in the Institute of Sustainable Energy Technology, School of the Built Environment, University of Nottingham, UK. Dr Omer is graduate of the Faculty of Engineering and Arch, University of Khartoum in 1983, and has worked as a research assistant at Energy Research Council, National Council for Research, Sudan for over 7 years and then as a teaching assistant at the University of Khartoum. He has been granted an M. Sc. Degree in Renewable Energy Technologies, by the University of Khartoum in Collaboration with the University of New Mexico, USA in 1986, and obtained a PhD degree from Loughborough University, UK in the Renewable Energy Technologies. Dr. Omer has over 25 years experience in the field of renewable energy technologies. His research interest is in renewable energies in general, and particularly solar energy technologies, building integrated systems, sustainable energy technologies, thermoelectric cooling/heating and power generation, ejector cooling systems, energy efficient systems, heat pipes, phase change materials and fuel cells.

### **Dr. Mohamed Osman, University College Medical School, UK**

Dr. Osman obtained his BSc. from Cairo University, MSc from London School of Hygiene and Tropical Medicine and his PhD from Queen's University of Belfast. Dr. Osman's major interest is to develop and evaluate human vaccines. During His post-doctoral position at Imperial College School of Medicine, London, he discovered Cytotoxic T cells against human herpes virus 8, in addition, he had characterised at the molecular level the mechanisms by which human dendritic cells migrate. Following his move to Jenner Institute for Vaccine Development, Oxford Univer-



sity, Dr. Osman studied the interaction between *Nisseria meningitidis* and the immune system. Then he moved to Institute of Child Health, UCL where he developed lentiviral vectors for gene therapy for the purpose of treating primary immunodeficiency. In 2007, Dr. Osman was required to his current position where he is participating in a pioneering work for development and evaluation of novel vaccine. Dr. Osman has publishes in peer- reviewed journal and participated in many conferences. Dr. Osman is founder and the director of London Technology and Development. He is also a consultant for London Technology Network.

### **Khalid Yousif-Mohammad, University of Durham, UK**

Khalid is a lecturer, systems analyst and software developer who has seven years of experience. Meanwhile, khalid is a PhD student at Durham University nominated from the Computer Studies Center, University of Juba – Sudan. He has headed the Examination Office for one academic year. Also headed the development team that was responsible for developing, programming, implementing and providing user support for the departments' systems in University of juba.

## **ORAL PRESENTATIONS CONTRIBUTORS**

### **Dr. Brima Eid, University of Nottingham, UK**

Dr Brima's first degree was in Chemistry (The University of Garyounis), He had a computer certificate in 2000, Microsoft Certified Systems Engineer (MCSE). Master in Analytical Chemistry in 2002 (The University of Huddersfield). PhD in Analytical Chemistry in 2007 (De Montfort University). The scope of the thesis was in arsenic exposure and metabolism in different ethnic groups. Dr Brima has published a couple of papers in peer-reviewed journals.

### **Dr. Elbushra Herieka, Royal Bournemouth Hospital, UK**

Dr. Herieka (MB BS, DFFP, MSc, MRCOG) is a graduate of the University of Khartoum and a Consultant in Genitourinary Medicine and HIV at the Royal Bournemouth Hospital in the UK. Dr Herieka has performed research in female genital mutilation in the Sudan as well studied prevalence of sexually transmitted infections in Khartoum. Worked with the Sudan National AIDS control Programme (SNAP) and the UNDP to improve ways of controlling HIV in the Sudan. Co-founder of Sudan HIV/AIDS working Group (SHAWG.org) a group of expatriate Sudanese willing to contribute to the efforts to curtail the spread of HIV/AIDS. Dr Herieka gave interviews to Sudan National TV, Alshroug Channel and radio stations educating on HIV/AIDS. SHAWG efforts were crowned with the successful launch of an 8 days intensive workshop in Khartoum in August 2008 teaching 51 clinicians on ways to tackle HIV challenge in the Sudan. The Way forward document was produced in Dec. 2008 to guide people on how to deal with HIV epidemic. Dr Herieka appears in Who is WHO in the World 2003.

### **Dr. Isameldin Izzeldin, John Radcliffe Hospital, UK**

Dr. Izzeldin is a Clinical Neurophysiologist and Specialist Neurologist, who is currently practicing Clinical Neurophysiology in the main tertiary referral university hospital of Oxford, UK. He is a medical graduate of the University of Khartoum in Sudan. He is a UK trained General

Physician (Royal College of Physicians), as well as trained Specialist Neurologist and Clinical Neurophysiologist. He did his research in Glasgow, UK in the field of Spinal Cord Injury and Rehabilitation. As a member of the American Academy of Neurology and the British Association of Neurologists, he is keen on promoting the practice of modern evidence-based neurology in Africa. He is an active member of *Africa Neurology Interest Group* (ANIG) and co-editor of its *Neurology Teaching Resource* designed for African medical students and junior doctors. He has a special interest and currently working towards the creation of a sustainable multidisciplinary *Neuroscience Services* for the people of Sudan.

### **Eng. Salah Khalil, Khartoum Airport Cargo Village, Sudan**

Salah graduated from the Faculty of Chemical Engineering, University of Khartoum with BSc in Chemical Engineering, holding a Diploma in Business and Administration from University of Khartoum and MBA from University of Juba. Having an experience in petroleum industry mainly operations and marketing of petroleum products and aviation. Assumed different managerial post and currently the general manager of Khartoum Cargo Village.

### **Elmuez Shayeb, University of East, UK**

Elmuez is a PhD student at the University of East London - Computer Security Department , graduated from university of Sudan 1993 , Banking and finance , after a brief working experience in banking sector, moved to UK to obtain a Master degree in Finance, University of East London (2000), HND Computer Science (2002), Northbrook College, PGC Distributed Computer System, University of Greenwich (2004). Published articles in Banking Technology Magazine and current research focus on E-commerce security and online banking.