



**Workshop on inter-university networking
for capacity-building in STI policy:**
Towards a comprehensive African master programme
at the National Engineering School of Tunis (ENIT)

Workshop Booklet
11 to 12 June 2015 | Tunis-Hammamet (Tunisia)

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WELCOME MESSAGE

Dear Colleagues,

It is our great pleasure to welcome you to the Workshop on Inter-university networking for capacity-building in science, technology and innovation (STI) policy: Towards a comprehensive African mater programme at the National Engineering School of Tunis (ENIT).

The main purpose of this Workshop is to explore and identify innovative and interactive methods to establish a North-South-South inter-university network in the field of STI policy; a network which in particular, could serve to help build capacities in this field in Africa. Our goal to stimulate the establishment of STI policy programmes in universities on the African continent is an ambitious one, however we know that it is only through the pooling of resources, exchanging best practices and facilitating cooperation that we can begin to take the first steps towards building solid and comprehensive STI policy training and research programmes around the world.

We view this Workshop as a starting point in the setting-up of this network; and we are very pleased to have brought together representatives from international organizations, universities and centres from Africa and other parts of the world who have either already established programmes in STI policies or are those who would like to establish such programmes. This is a unique opportunity for such a wide range of stakeholders to explore the many facets and opportunities we have at our finger tips to enrich STI policy courses and programmes.

This Workshop is also a concrete opportunity to begin our work together as an informal STI policy network by providing recommendations and advice on ENIT's proposal to establish a Master Programme. A Programme that we hope will be the first of many more to come out of this network.

We do realize that it is not enough to have an idea. It is not even enough to have a good idea. The idea has to be excellent and easily converted into concrete actions that can lead to making measurable impacts. However all ideas inevitably have a starting point. This Workshop is our starting point, and it is where we aim to tap into your expertise and experience to establish concrete plans and initial steps to establish the North-South-South inter-university network in the field of STI policy.

Therefore, over the next two days, we are looking forward to listening and learning from your experiences and comparing lessons from different regional and cultural contexts. We wish you a fruitful Workshop.



Sonia Bahri
Chief
Section for Science Policy and Partnerships
Division of Science Policy and Capacity-Building
Natural Sciences Sector
UNESCO



Jelel Ezzine
President - Tunisian Association for the
Advancement of STI (TAASTI)
Professor - Ecole Nationale d'Ingénieurs de
Tunis (ENIT)
University of Tunis El-Manar

WORKSHOP AGENDA

DAY ONE – 11 JUNE 2015

	Opening session
Welcome address : 9:00 - 9:10	H.E. Prof. Chiheb Bouden, Minister, Ministry of Higher Education and Scientific Research, Tunisia (<i>tbc</i>)
Welcome address : 9:10 - 9:20	Hatem Zenzri, Director, ENIT
Welcome address : 9:20 - 9:30	Mohamed Kamel Essid, Secretary-General, Tunisian National Commission for UNESCO
Opening remarks : 9:30- 9:35	Jelal Ezzine, Professor, National Engineering School of Tunis (ENIT)
Opening remarks : 9:35 - 9:40	Sonia Bahri, Chief of the Section for Science Policy and Partnerships, UNESCO (Paris)
9:40 - 10:00	Coffee Break
Session 1 10:00 – 12:30	International experiences in setting-up STI policy programmes and reflection on modalities and potential joint activities of a future North-South-South STI policy network
Presentation by Sonia Bahri, UNESCO (15 min)	<ol style="list-style-type: none"> 1. UNESCO's Programme on Capacity-building in STI Policy and overview of the project proposal "Setting-up of University Networks for Capacity-Building in STI Policy in Africa". 2. Overview of potential joint activities and actions of the future network through the UNESCO Chairs/UNITWIN Networks scheme.
Reps from universities and institutes (intervention limited to 10-15 min) Moderator: <i>tbc</i>	<p>Presentations and group discussion</p> <p>The purpose of the discussion will be to hear and learn from representatives from universities and institutes their experience in developing and implementing North-South-South cooperation activities in STI policy, and to receive suggestions and discuss proposals of potential joint activities that could kick start and maintain the network.</p>
12:30 - 13:45	Lunch
Session II 13:45 – 15:45	Building together an innovative North-South-South University network in STI policy
Moderator: Ahmed Fahmi and Jelal Ezzine	This session will discuss the modalities to create the network and its sustainability as well as to provide tentative insights of the network, the courses/modules, assessing priorities, joint exchange programme, constitution of a consultative group.
15:45 - 16:00	Coffee Break
Session III 16:00 – 17:30	Moving forward: next steps and actions
Moderator: Sonia Bahri and Jelal Ezzine	The session will discuss the mandate and the vision of the Network; an appropriate governance; constitution of a Consultative group, a schedule of joint activities
18:00 - 20:00	Cultural visit: Visit to Vieux Fort de Hammamet followed by Workshop dinner in hotel dining room

DAY TWO – 12 JUNE 2015

Session IV 9:00 – 10:00	Proposal for an African Master Program in Engineering and Technology Policy (ETP) at ENIT
Presentation by Jeel Ezzine, ENIT (60 mins)	Presentation of ENIT's proposal for an African Master Programme <ul style="list-style-type: none"> – Overall structure, pedagogical activities and professional framework – Modules, credits and thesis
10:00 - 10:30	Coffee Break
Session IV (cont.) 10:30 - 12:30	<ul style="list-style-type: none"> • Presentations by peer-reviewers on the Master programme proposal: <ul style="list-style-type: none"> – Structure, coherence and completeness (15 min) – Contextualization, similar programs and experiential learning (15min) – Partnerships and international accreditation (15 min) • Discussion
12:30 - 13:45	Lunch
Session V 13:45 – 15:45	Group discussion
	<p>Group discussion on:</p> <ul style="list-style-type: none"> • Contextualization, similar programs and experiential learning • Structure, coherence and completeness • Partnerships and international accreditation
15:45 - 16:00	Coffee Break
Closing session 16:00 – 17:30	<ul style="list-style-type: none"> • Wrap-up and summary of the key elements stemming from discussions (Sonia Bahri, Jeel Ezzine) • Consensus on the setting-up of the STI policy network and presentation of road map (Sonia Bahri) • Closing remarks (Jeel Ezzine, ENIT/TAASTI)
	Workshop dinner

CONCEPT NOTE

I. Background

In the lead up to the adoption of the post-2015 Development Agenda and the new Sustainable Development Goals (SDGs) at the Special Summit on Sustainable Development in New York in September 2015, the importance of science, technology and innovation (STI) has never been more relevant. STI play a role far beyond economic growth and industrial development. They also make an important contribution to eradicating poverty, creating inclusive societies and ensuring a sustainable environment. Therefore, placing STI at the top of this agenda requires that all concerned stakeholders, notably policy-makers, universities, parliamentarians, civil society, the private sector and international organizations join forces to strengthen national STI systems and their interaction with the productive sector systems. Tapping into the benefits of STI begins with strengthening institutional and human capacities with trained stakeholders that can fully contribute to the formulation and implementation of specific strategies, public policies and means of governing.

In the case of Africa, the Science, Technology and Innovation Strategy for Africa - 2024 (STISA-2024), adopted in June 2014, recognizes in its situational analysis section that the continent has “inadequate expertise on STI policy development” and stresses the fact that “many of the officials involved in or responsible for drafting policy documents do not have the necessary skills or training and have no experience in evidence based policy making. Moreover, in most countries, institutions responsible for STI policy do not have appropriate libraries or easy access to sources of relevant information for policy-making.” Recently, the issue concerning the need to build decision-makers’ capacities in STI policy was also raised at the Second African Ministerial Forum which was held in Rabat (Morocco) in October 2014, where over 20 African Ministers in charge of STI committed to support initiatives, “programmes and networks that aim at developing human and institutional capacities in STI policy”, which was reflected in the Ministerial Statement of Rabat.

Universities across the globe have a crucial role to play in developing these capacities. Through their different faculties, chairs, fellowship programmes and formalised courses, universities are a central component to providing an environment to train new generations of researchers and experts in STI policy-making and policy analysis.

However, despite the need for strong national capacities in STI policy, few universities in developing countries offer educational and research programmes in this field. To address this human and institutional resource gap, throughout the years UNESCO and other agencies have worked with higher educational institutions in developing countries to train STI managers and decision-makers in the formulation, management, and review of their STI policies. The main goal is to enable relevant STI stakeholders to analyze the development challenges in their own countries, and to equip them with the tools to shape an STI agenda that can provide sustainable solutions and improve livelihoods.

To further develop expertise and train a critical mass of experts in the field, as well as promote the creation and strengthen STI policy programmes in universities and centres to act as advisory bodies to governments and regional bodies, UNESCO continues to pursue its work in this field through its programme on “*Capacity Building in STI Policy and Governance*”. This programme seeks to further stimulate the establishment of STI policy programmes in universities by establishing a North-South-South academic and inter-university network that will link existing academic centres and university programmes in STI policy to facilitate exchange

and cooperation. The network will enable universities and academic centres to pool their know-how and capabilities together and to share resources in order to offer solid comprehensive STI policy training and research programmes.

It is within this context that UNESCO's Division of Science Policy and Capacity-Building has responded positively to the National Engineering School of Tunis' (ENIT) request to assist in the finalization and launching of an African Master Programme in STI Policy, and have teamed up with them to organize this international workshop entitled "*Inter-university networking for capacity-building in STI policy: Towards a comprehensive African master programme at the National Engineering School of Tunis (ENIT)*".

II. Objectives

1. Exploring and identifying modalities to establish an innovative North-South-South inter-university network in STI policy, with an emphasis on capacity-building in STI policy in Africa. Focus will be placed on identifying potential joint activities that the proposed network can undertake and on how to ensure its sustainability. The following modalities and suggestions for joint activities may guide the presentations and later discussions and concrete proposals:
 - a) Making an inventory of existing STI policy courses/modules/open resources worldwide
 - b) Sharing training/teaching modules between participating institutions
 - c) Developing experts/ faculty members/scholars exchange programmes
 - d) Launching joint fellowship programmes
 - e) Establishing modes of delivery of the courses – online and face to face
 - f) Setting-up an African STI virtual hub
 - g) Identifying potential funding sources and deploying fund raising strategies
 - h) Overviewing existing mechanisms for inter-university networking, including UNESCO Chairs and UNITWIN networks
 - i) Elaborating terms of reference to set up network of consultative groups
 - j) Working jointly on developing and validating new STI policy modules

2. Reviewing the ENIT Master course, proposing ideas based on comparative experiences, and making concrete proposals for the following:
 - a) Target students
 - b) Curriculum design
 - c) Provision of complementary modules and training material
 - d) Teachers and learners guide books
 - e) Modes of delivery
 - f) Partnerships with other institutes - proposals and mechanisms
 - g) Fellowships scheme for African students

III. Expected outcomes

- Fine-tuning the modalities to create an innovative inter-university network in STI policy, and identifying its potential future joint activities;
- Reviewing, seeking technical input and exploring exchange opportunities for ENIT's proposal to establish a comprehensive STI policy master programme for Africa.

IV. Participants

The workshop will bring together representatives from international organizations, universities and centres from Africa and other parts of the world that have established programmes in STI policies and/or those who would like to establish such programmes through networking.

V. Venue

The international workshop will be held from 11 to 12 June 2015 in Hammamet (Tunisia) at the Hôtel Le Sultan (approximately 65 km from Tunis airport). Airport pick-up and drop-off will be organized by the workshop coordinators.

VI. Language

The working languages of the workshop will be English and French.

BIOGRAPHIES



Théophile T. Azomahou is Professorial Fellow at UNU-MERIT and Professor of Development Economics at Maastricht University (School of Business and Economics, SBE). He was previously assistant and associate Professor of Economics at University of Strasbourg, invited Professor at University of Luxembourg and University of Montpellier 1. He has occupied the chair of Econometrics at The Ecole des Ponts ParisTech (Paris). He completed his MSc in quantitative economics, Ph.D and Habilitation degrees in Economics at University of Strasbourg.

He currently coordinates the UNU-MERIT research theme on 'Economic Development, Innovation, Governance and Institutions'. Théophile Azomahou research includes development economics (evaluation of programmes, fields experiment, poverty analysis, growth empirics), economic theory (growth theory, game theory) and econometrics (panel data, applied nonparametric methods, structural econometrics).



Sonia Bahri is presently leading the Section for Sciences Policy and Partnerships in UNESCO and is the Executive Secretary of the L'Oreal/UNESCO Awards for Women in Science. She is also the coordinator in UNESCO Natural Sciences Sector for the revision of the 1974 Recommendation on the Status of Scientific Researchers.

She holds a Ph.D in Economics from Pantheon-Sorbonne University. She also graduated in Political Sciences from the Institut d'Etudes Politiques de Paris, in Applied Economics from Paris-Dauphine University and has an advanced degree (DEA) in 20th century History.

Before joining UNESCO as staff member, Dr Bahri worked with different research and development institutions, including SEDES "Société d'Etudes pour le Développement Economique et Social". She initiated UNESCO's programme in the field of HIV/AIDS and Education. She was then appointed Chief of the Section for Secondary Education from 2001 to 2006 where she promoted international and regional policy dialogue on the importance of Secondary Education expansion and renewal for the achievement of EFA goals and established an Interagency Consultative Group on Secondary Education and Youth Affairs. From July 2006 to January 2011, she led the UNESCO's Chairs and UNITWIN programme, for international cooperation in higher education and research, initiated and coordinated the sessions on Social Responsibility, on Sustainable Development and on Entrepreneurship at the World Conference on Higher Education at UNESCO (2009).

Sonia Bahri is author of numerous publications and articles in these areas and in other educational/sustainable development issues and is a member of several think-tanks and university networks' advisory boards.



Christian Brodhag is professor at the National School of Mines of Saint-Etienne (member of the Institut Mines Telecom) in the Institut Henri Fayol devoted to global industrial performance and innovation. Civil Mining Engineer and PhD, he was Interministerial Delegate for Sustainable Development by the French government (2004-2008), he participated in that capacity in the drafting of the ISO 26000. His teaching at the School of Mines focuses on sustainable development, social responsibility, innovation and relations of those subjects with information system.

He is an expert for the Francophonie on international issues of sustainable development and innovation. He is currently scientific and technical director of the Francophone Network for Innovation (FINNOV - www.francophonieinnovation.org). It aims to strengthen the capacity of countries and regions of the francophone world in the implementation of innovation strategies, networking of actors and organizations dedicated to innovation, making available to the francophone community resources, in French, on best practices and support the diffusion of key innovations. In this context, Ecole des Mines is planning to launch a Master "policy and financing of innovation and green economy".

He chairs the associations France and International Construction21, portal on sustainable construction (www.construction21.org) it aims at the dissemination of innovation and organize the sectoral innovation system. He also chairs the French National Pole on ecodesign (www.eco-conception.fr) that supports SMEs in the environmental design of products and services.



Jejel Ezzine is presently full Professor of Systems Theory and Control at the University of Tunis El Manar. He has more than thirty years of experience in Higher Education and Research. He taught and carried out research in several countries. He is the Founding and current President of the Tunisian Association for the Advancement of Science, Technology and Innovation (TAASTI) Think Tank.

He has been a high-level civil servant for more than a decade. He is the former Director General of International Cooperation at the Tunisian Ministry of Higher Education and Scientific Research where he designed, concluded and oversaw several strategic higher education and scientific research cooperation projects with several countries and international institutions. He was the founding Director of Graduate Schools in Tunisia. Prior to that, he was the Director of University Research where he managed, evaluated and financed related programs and activities in the country.

Prof. Ezzine is Senior Member of IEEE, Senior Associate at ICTP, Editor/Associate Editor of several academic journals and scientific organisation, Expert/Senior STI Consultant with AAAS, AfDB, BC, World Bank-CIM, DAAD, EUC, IAEA, UNESCO.

He is listed in Who's Who in the World, and Who's Who in Science and Engineering. In addition, he is a Board Member of The International Network of Resource Information Centres (INRIC), USA, known as the "Balaton Group".



Ahmed Fahmi was born in Baghdad (Iraq), received his school education in Rome (Italy) before obtaining a scholarship to study Natural Sciences at the University of Cambridge (UK) for his undergraduate degree and obtained a PhD in 2000 on investigating the role of membrane proteins in cardiac cells. Thereafter he worked as a post-doctoral fellow at the Imperial College and Kings College of the University of London and the Max Planck Institute in Germany before landing a university post for teaching biochemistry at the University of London.

Dr Fahmi joined UNESCO in 2006 working in South Asia and the Asia-Pacific region on managing and coordinating the execution of the organization global programme in Basic and Engineering Sciences and Science Policy. He worked on a variety of projects, notably the development of a field guide manual on repair and retrofitting of historical building for earthquake engineers, e-learning programme in renewable energy, Teachers training program for Sri Lanka, policy formulation on the marine environment of the Maldives, the planning and execution of the reform of the Kingdom of Bhutan's science and higher education system and the establishment of the UNESCO Regional Centre for Biotechnology in India. He was a visiting professor at the United Nations University in Japan in 2012.

He was transferred to UNESCO Head Quarters in Paris in 2013 and has been involved in the establishment of UNESCO centres of excellence in Libya, Iran, Pakistan, Viet Nam; the reform of the biotechnology sector of Ethiopia and the organisation of the International Year of Crystallography. He has also been involved in the review and formulation of STI policies for countries in Africa and the analysis of these policies through the UNESCO GOSPIN.



Achim Gutowski holds a Ph.D in international business studies from the University of Bremen (Germany). During five years, he worked at the Innovation Centre of the German Industry, Bremen and Hannover/Germany, supporting SME. Since 2012, he has been a full time professor at an International Business School in Hamburg/Germany, specialized in Innovation and Change Management.

Professor Gutowski is a member of the Research Group on African Development Perspectives at the University of Bremen/Germany (since 1998). He is the co-editor of the African Development Perspectives Yearbook Series (since 1998), Lit Publishers, London, Muenster, Berlin. He has experience in company management in India, Sri Lanka, Romania (e.g. Siemens, Unilever, SME). He was a speaker at several international Conferences in Germany, Japan, India, PR China, Sweden and Tunisia. Professor Gutowski is the author of various scientific articles.



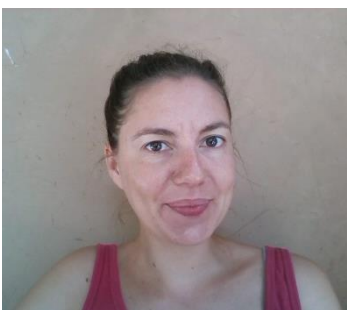
Eunjoon Kim is a researcher and project manager at the International Innovation Cooperation Center of the Science and Technology Policy Institute (STEPI), a think-tank for science, technology and innovation (STI) policy in Seoul, Korea. Before joining STEPI, she worked as a specialist in international relations at Gyeongnam Provincial Government Office. Her primary research interests are national innovation systems, science diplomacy and international cooperation and networking for innovation.

She has been involved in cooperation projects with various domestic and foreign government agencies and international organizations including OECE and APEC. She has also organized diverse training programs and workshops designed to assist government officials and researchers from developing countries for their STI capacity building. She is candidate for Ph.D. in Science, Technology and Innovation Study of the Korea University.



Rasigan Maharajh is concurrently Nodal Head of the Department of Science and Technology and National Research Foundation' Centre of Excellence in Scientometrics and Science, Technology and Innovation Policy. Rasigan is the founding Chief Director of the Institute for Economic Research on Innovation at Tshwane University of Technology. In addition, he is an Associate Research Fellow of the Tellus Institute in Boston, and the Chairperson of the Southern African Node of the Millennium Project.

Rasigan graduated with a Doctor of Philosophy degree from the Forskningspolitiska Institutet, School of Economics and Management of Lund University in Sweden. He is also an alumnus of the University of KwaZulu-Natal of South Africa and the Harvard Business School of the United States. Rasigan is an active member of the Global Network for the Economics of Learning, Innovation and Competence-building Systems and serves on the Scientific Board for the Africa Region. Rasigan holds appointments to the governing boards of various enterprises, and is a Ministerial Representative on the Council of Rhodes University and an elected Senator of Tshwane University of Technology. Rasigan has produced more than 65 publications, and has presented his research in over 33 countries variously as Visiting Researcher, Scholar and Professor.



Justine Martin holds a Ph.D in Philosophy. She is a specialist of political philosophy applied to higher education policies and cooperation. She worked first as a research and teaching assistant at Paris-Sorbonne University and later as project manager at Campus France. Currently administrator and regional coordinator of projects within the Agence universitaire de la Francophonie (AUF), she successively held the position in Port-au-Prince, Haiti for the Caribbean region and in Rabat, Morocco, for the Maghreb region.



Hatem M'Henni is Professor of Economics at the High School of Commerce of Tunis. Professor Hatem overarching research and teaching interests are about the economic and social impacts of ICTs, dynamics of Euro-Mediterranean integration, S&T indicators and innovation policy. He was the principal councilor of the Tunisian Minister of scientific research and technology in matter of S&T planning (June 2004-January 2007) and the former general manager of the Tunisian National Observatory of Sciences and Technology (January 2007-March 2009). He has also served as a consultant, faculty member or scientific advisor to several international institutions, among them the UNESCO Institute for Statistics (UIS), the Economic and Social Commission for Western Asia (ESCWA) and the New Partnership for Africa's Development (ASTII, NEPAD-AU).

He also participates in the main Euro-Mediterranean S&T projects: Evaluation of Scientific and Technological capabilities in Mediterranean countries (ESTIME), Innovation Foresight for MEDA Partners in the European Research Area (INNFORMED), Network for Evidence-Based Innovation Policy (NEBIP -Medibtikar), Mediterranean Innovation and Research Co-ordination Action (MIRA) and Erawatch as national expert for Tunisia.

Hatem M'HENNI is member of the Advisory Steering Committee of the Center for Science, Technology and Innovation Indicators (CESTII) in South Africa, the Technical Group of the African Observatory of Science, Technology and Innovation (AOSTI) in Equatorial Guinea, the Scientific Advisory Committee of the Arab League for Culture and Science Organization (ALECSO) and some scientific and economic networks; Forum Euro-Mediterranéen des Instituts de Sciences Economiques (FEMISE), International Research Network (GDRI) of the CNRS (National Center for Scientific Research) Development of Euro-Mediterranean Economic Research (DREEM). He has published several articles in academic journals.



Burton Mwamila is a Tanzanian with a 1984 PhD degree in structural engineering from the Royal Institute of Technology in Sweden. He was the founding Chairman of Tanzania's National Council for Technical Education from 1999-2007. He also served as the Chairman of Tanzania's Engineers Registration Board from 2000-06, and the Tanzania Commission for Science and Technology from 2006-2013.

Furthermore, he served as Member of the Governing Council of the African Network of Scientific and Technological Institutions from 2000-09, and Chairman of the Executive Board of the Pa-African Competitiveness Forum from 2008-2014. He is currently the founding Vice Chancellor of the Nelson Mandela African Institution of Science and Technology in Arusha (NM-AIST) since July 2009.



Maria Nedeva is currently with Manchester Business School (MBS) and the Manchester Institute of Innovation Research (MIOIR) and has researched on many science policy and policy related matters, including academy industry links, evaluation of research, research programmes and organisations, methodology for studying the impact of research policy and funding on science, and peer review and the selection of intellectual innovation.

More recently, her work has focused on the conceptualisation of the dynamics of science and research. Dr. Nedeva has published widely on these issues. For more information, please visit www.maria-nedeva.com.



Joseph Vincent Ntuda Ebodé is a political scientist specialized in matters of defence and international security (geo-strategist). He obtained his Ph.D in international relations and strategic studies at *Institut d'Etudes Politiques de Lyon* (France).

Since 1997, he has been a professor at the Université de Yaoundé-Soa. Since 2012, he has been Director of Academic Affairs and Cooperation at the University of Yaoundé II-Soa as well as interim Director of the Institut Gouvernance des Sciences Sociales et Humaines de l'Université Panafricaine at the University of Yaoundé II-Soa.



Bahri Rezig is currently Professor of Industrial Engineering at the School of Engineers of Tunis (ENIT - University of Tunis el Manar) since 1987. He holds a Msc degree in "Noise in Electronic Devices", a Ph.D and a 'Doctorat d'Etat es-Science in Physics from the 'Université Languedoc de Montpellier' – France (1986).

Prof. REZIG research and teaching interests are in semiconductors Physics and Technology of thin film photovoltaic materials and solar cells, he founded, in 1992, the "Semiconductor Materials and Photovoltaics Laboratory" (ENIT). In particular, his research had been performed in modelling physical behaviours of vacuum grown single and multi-layered systems dedicated to photovoltaics and photonics. He published in several international journals more than 60 papers and supervised tens of Ph.D Thesis in the above mentioned areas.

More recently, he launched a new research program in indoor photovoltaic low power microsystems.



Samsudin Tugiman was born on 19 February 1939 and graduated from University Putra Malaysia in the area of agronomy and extension and obtained his doctorate degree from Louisiana State University USA.

He devoted his life long career with the Rubber Research Institute of Malaysia (RRIM) now call Rubber Board of Malaysia and retired as the Deputy Director General of the organization. After his retirement from RRIM, he set up a Academy of Sciences Malaysia (ASM) and he was appointed as the first Chief Executive Officer (CEO) of ASM.

His current post is the Director of International Science, Technology and Innovation Centre (ISTIC) a category II centre under the auspices of UNESCO which is funded by the Government of Malaysia. He has vast experience in management, implementation of collaborative programme nationally and internationally.



Chi Ung Song, research fellow at Science and Technology Policy Institute (STEPI), is a researcher who has a strong background both in global cooperation in Science, Technology & Innovation as well as in Economics of Technology and Innovation. He has been a visiting scholar at the Center for International Science and Technology Policy of the George Washington University during the year of 2014.

He also has been an Adjunct Professor of Urban Planning at Gachon University from 2012 and 2013, and affiliates with Korea Productivity Association as an editor as well as a member of executive board. In addition, Dr. Song served as an expert advisor for Presidential Advisory Council on Education, Science and Technology during the year of 2011.

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