

4th National Conference on Science and Technology

(Luanda, 9 – 11 September 2015)

Under the motto:

"Together for Strengthening the Insertion of Science, Technology and Innovation in the Country's Development Strategy"

General Programme

Promoted and organized by:

Logomarca Governo de Angola

Insígnia da república Ministério da Ciência e Tecnologia Logomarca dos 40 Anos da independência de Angola

Sponsorships

Supports

(colocar aqui logomarcas, respeitando a mesma ordem dos passes)

(colocar aqui logomarcas, respeitando a mesma ordem dos passes)

Conceptual note

The National Conference on Science and Technology is a biannual event, which is focused on the presentation and discussion of scientific research results, preferably original research works, which are beyond literature reviews and description of phenomena, cases or occurrences. Only in special cases the organizing Committee reserves the right to invite personalities who decisively contribute to promote this event, or are invited to give a speech on topic(s) commissioned by the organizing Committee.

The 1st Conference was held in 2009, promoted by the Ministry of Science and Technology, and it has established itself as a platform of excellence in the search of solutions for the Angolan problems. The average number of participants in the last three editions was about 300..

In the last three editions held (2009, 2011 and 2013), this forum was attended by about 1000 scientific researchers, among them, about 80 foreign participants from countries like South Africa, Botswana, Brazil, Canada, Cuba, Spain, USA, France, Macau/China, Mozambique, Portugal and Zimbabwe. A total of about 180 communications were presented orally and in the form of posters.

The 4th National Conference on Science and Technology has the motto "**Together for Strengthening the Insertion of Science, Technology and Innovation in the Country's Development Strategy.**" It will be held in September, from 9th to 11th 2015, in Luanda, and has been announced from January 2014 in the 5th Edition of the Annual Calendar of Scientific Events, Angola.

The evaluation of the submitted abstracts is a key moment, as it determines whether the works are selected to be presented as "oral communication" or "poster" or being "not accepted".

Authors of accepted abstracts are notified to prepare their presentations or posters to present in one of the working sessions of this event.

The Organizing Committee

Objective

To present and discuss scientific research results, to share and exchange experience on the contribution of science, technology and innovation in the resolution of the social problems and in the promotion of the sustainable development.

Outputs

- ⇒ To present and discuss scientific research results;
- ⇒ To share experience on the implementation of Policies on Science, Technology and Innovation and expected impact;
- ⇒ To contribute for the management of the environmental issues;
- ⇒ To contribute for the strengthening of food and nutrition security;
- ⇒ To promote the strengthening of public health and the systematization and enhancement of the indigenous knowledge;
- \Rightarrow To promote the use of technology in supporting sectors and at the service of society.

Target Audience

Managers, scientific community, experts, professionals and students with interests in the issues, according to the above topics.

Topics/Panels

PANEL I - Science, Technology and Innovation and collaborative opportunities.

PANEL II – The scientific research for the strengthening of food and nutrition security.

PANEL III – The application of science and technology in the management of natural disasters and environmental issues.

PANEL IV – Science and technological innovation for the strengthening of the public health.

PANEL V – Technologies at the service of society.

Round table

"The insertion of science, technology and innovation in the country's development strategy"

Side Events

- Workshop on biodiversity scientific data sharing (10th September 2015)
- Seminar on the promotion and sharing of innovation (10th September 2015)
- "Angolan Inventor/Creator Fairs" and associated events (9 13 September 2015)

Poster Session

Overview on the posters presented.

Speakers

National and Foreign experts.

OPENING CERIMONY, PLENARY SESSION OF THE 4^{TH} NATIONAL CONFERENCE ON SCIENCE TECHNOLOGY AND INAUGURATION OF THE 7^{TH} EDITION OF THE FAIR OF ANGOLAN INVENTORS/CREATOR (FeICA) AND ASSOCIATED EVENTS

Date: 9/09/2015;

Local: Conference Room (Opening Ceremony and Plenary Session) and North Exit of the CCTA (Inauguration of the FeICA)

Start/end: 14:30 - 17:30

Master of Ceremony: Mr Alexandre Cose

Moderator and plenary relator: Dr Domingos Neto and Dr Ricardo Queirós

N/O	Speakers	Institution	Working Title	Time
1.	The national anthem intonation			
2.	Introductory remarks by the representative of the organizing committee			
3.	Yours Excellence Prof. Dr. Maria Cândida Pereira Teixeira (Minister Of Science and Technology)	MINCT	Opening Intervention - "ANGOLA 40 YEARS: The state of science, technology and innovation"	14:45 - 15:25
4.	Yours Excellence Prof. Dr. João Sebastião Teta (State Secretary of Science and Technology)	MINCT	Institutionalization and recognition of Public Institutions for Scientific Research, Technological Development and Innovation	15:25 - 15:55
5.	Dr Gong Ping Yeh	MIT/USA	Science, Innovation, Technology, and Energy	15:55 - 16:25
6.	OFFICIAL OPENING OF THE FEICA AND ASSOCIATED FAIRS OF STI - 7 th Edition of the Inventor/Creator Fair of Angola, 2 nd Edition of the International Fair of Science and Technology and 2 nd Edition of the International Fair of Ideas, Inventions and Product Valuation			
7.	- Visit of the <i>stands</i> and interaction with the exposers (Yours Excellency Minister of Science and Technology Prof. Doutora Maria Cândida Pereira Teixeira, guests and all participants)			16:30 – 17:15

PANEL I - "SCIENCE, TECHNOLOGY AND INNOVATION AND COLLABORATIVE OPPORTUNITIES"

Date: 10/09/2015;

Venue: Salão de Conferências/Conference hall

Start/end: 08:30 - 10:20

Moderators: Prof. Orlando da Mata/UMN and Dr Maria do Rosário Sambo/UAN

Relators: Mr Alexandre Costa and Mr Ngilima Wina

N/O	Presenters and contacts	Institution /Country	Working Title	Time	
1	Dr Ereck Chakauya echakauya@csir.co.za	SANBio	A Network Approach to strengthening Biosciences Research Development & Innovation	8:30 – 8:45	
2	Dr. Henry Mwima henry.mwima@sasscal.org	SASSCAL Secretariat, Namibia	The Southern African Joint Initiative aimed at mitigating the impacts of climate change	8:45 – 9:00	
3	MSc. Stéphane Hogan stephane.hogan@eeas.europa.eu	EU Delegation to the African Union, Addis Ababa, Ethiopia	Horizon 2020 – an opportunity for Angolan researchers	9:00 – 9:15	
4	Mr. Michael Nxumalo michael@nrf.ac.za	NRF/SA	Challenges faced by Granting Institutions in carrying out collaborative R&D Regional Activities	9:15 – 9:30	
5	Prof. David Strangway davidstrangway @telus.net	Quest University/ Canada	Medicine and medical research in the Angola Highlands 1900-1976	9:30 – 9:45	
6	MSc. Nuno Oliveira nunooliveira@noliveira.com	ISTM/EMGFAA	Contribution of the role of science, technology and innovation for the sustainable development of cities and peri-urban communities of Angola.	9:45 – 10:05	
7	Dr. Carlos Alberto Jennings tulacampos@gingablearning.com.br	Project Centre GINGA/Brazil	Educational Model, B-Learning. Innovative Solution for the Complex Realities in Angola	10:05– 10:20	
	Coffee break				

PANEL II - "SCIENTIFIC RESEARCH IN THE STREGTHENING OF FOOD AND NUTRITION SECURITY"

Date: 10/09/2015;

Venue: Salão de Conferências/Conference hall

Start/end: 10:40 - 12:20

Moderators: Prof. João Serôdio/UAN and Dr João Ferreira/INCA **Relators**: Dr João Carlos Ferreira/CNIC and MSc. Gaspar Freitas

N/O	Presenters and contacts	Institution /Country	Working Title	Time	
1	Dr. Teixeira Bige bigeteixeira@hotmail.com	IIA/Malange	ANGOLAN GENETIC RESOURCES: genetic prospecting for new varieties of fruit species	10:40 – 11:00	
2	Dr. Agostinho Nungulu tchivangenungulu@hotmail.com	IIA	Monitoring of species of corn pone in Angola	11:00 – 11:20	
3	Dr João Zacarias baptista74@yahoo.com.br	UMN	Total replacement of corn flour imported by the cassava root	11:20 – 11:40	
4	Dr. Ntsoaki Joyce Malebo nmalebo@cut.ac.za	Univ. of Technology, Bloemfontein, South Africa	The influence of bioactive oils on post-harvest fungi	11:40 – 12:00	
5	Dr Rodolfo Valdés nivinaortelio@gmail.com	UMN	Diagnostic study of goats under traditional breeding system by the farmers of the Huíla region.	12:00 – 12:20	
	SUPERIOR LOBBY (upstairs) – interaction with authors of posters				
	Facilitators: Prof. Dr Pedro Guimarães, Prof. Dr Alfredo Buza, Prof. Dr Armando Valente e Prof. Dr Gabriel Miguel				
	Public target: Guests and all participants				
	Lunch				

<u>PANEL III</u> - "THE APLICATION OF SCIENCE AND TECHNOLOGY IN THE MANAGEMENT OF NATURAL DISASTERS AND ENVIRONMENTAL ISSUES"

Date: 10/09/2015;

Venue: Salão de Conferências/Conference hall

Start/end 14:30 - 17:25

Moderators: Prof. Anabela Leitão LESRA/FE-UAN and Dr José Luís/ISCED-Huíla

Relators: Dr Pedro Guilherme and Mr Jerónimo Diogo/CNIC

N/O	Presenters and contacts	Institution /Country	Working Title	Time	
1	Ms Juliana Maria jsakosi@yahoo.com.br	LESRA/FE-UAN	Anaerobic treatment of dairy industry effluent using a UASB reactor.	14:30 – 14:45	
2	Mr Kiala Bernardo, kialabernardo@gmail.com	LESRA/FE-UAN	Study of the wastewater treatment efficiency in the Kilamba wastewater treatment plant	14:45 – 15:00	
3	Ms Paulo Manuel paulomanuelelsa@yahoo.com.br	LESRA/FE-UAN	Water quality study for the consumption of the population of the city of Uíge	15:00 – 15:15	
4	Ms Juliana Paca biojumanzambi@hotmail.com	LESRA/FE-UAN	Quality indicators of surface water: application to watercourses in Luanda and Bengo Province.	15:15 – 15:30	
5	Ms Jaqueline Tenente jaquelinedarla@hotmail.com	INSP/FC-UAN	Application of solar radiation in the treatment of drinking water in domestic reservoirs in Viana Municipality, Luanda.	15:30 – 15:45	
	Coffee break				
6	Mr Moisés Vicente mjsvicente2011@hotmail.com	Inst. Superior Jean Piaget-Benguela	Laboratory study of corrosion by hydrochloric acid in end systems petroleum atmospheric distillation units.	16:05 – 16:20	
7	Mr Soma Buta Soma.buta@gmail.com	LESRA/FE-UAN	Influence of traffic on air quality in Luanda	16:20 – 16:35	
8	Dr. Raven Jimmy raven@nrf.ac.za	NRF	The application of Science and Technologies in the management of natural disasters and Environmental issues in South Africa	16:35 – 16:50	
9	MSc. Valter Chissingui vchissingui@gmail.com	NRF	Mapping and change for the blanket in the highlands of Huíla from 1990-2010 with the resources at satellite images Landsat	16:50 – 17:05	
10	Ms Tomásia Adão (Quiçama) e Mr Domingos Francisco (Cangandala) tsaleth@centrodebotanica.org e dofrasco@yahoo.com.br	Centro Botânica/UAN	Distribution of plant communities in Quiçama and Cangandala National Parks	17:05 – 17:25	

PANEL IV - "SCIENCE, TECHNOLOGY AND INNOVATION IN THE STRENGTHENING OF THE PUBLIC HEALTH"

Date: 11/09/2015;

Venue: Centro de Imprensa/Conference Center

Start/End: 8:30 - 11:10

Moderators: Prof Mário Frestas/CEDMED and MSc. Ana Silva Gerardo/FM-UMN

Relators: MSc. Emingarda Castelbranco and Mr Luís Boa Morte/CNIC

N/O	Presenters and contacts	Institution /Country	Working Title	Time	
1	Mr Domingos Alfredo biobiete@gmail.com	LESRA/FE-UAN	Treatment of hospital waste by oxidation and adsorption processes using inexpensive.	8:30 – 8:50	
2	Dr Eduardo Valentim Eduardoekundi 80@yahoo.com.br	ISP Medicina, Malange	Environmental pollutant for the treatment of arthritis, history of hydrogen sulphide gas.	8:50 – 9:10	
3	Dr. M. Sekhoacha sekhachap@ufs.ac.za	Univ. of Bloemfontein, South Africa	Pharmacological and cytotoxic effect of <i>Cymbopogon citratus</i> essential oils: A mechanistic approach	9:10 – 9:30	
4	Ms Cláudia Fançony cisa.cfv@gmail.com	CISA, Bengo	Iron deficiency anaemia and iron deficiency in children under three years in the province of Bengo.	9:30 – 9:50	
5	Ms Adis Cogle adiscogle@gmail.com	Clínica Girassol	Frequency of phenotypic classes of blood group ABO and RH systems of blood donors in Clinica Girassol from June 2011 to June 2012.	9:50 – 10:10	
	Coffee break				
6	MSc Carolina Gasparinho carolinagasparinho@hotmail.com, cisa.cfv@gmail.com	CISA	Frequency of infection and genotyping of rotavirus in children treated for diarrhoea at the General Hospital of Bengo.	10:30 – 10h50	
7	Mr Luis Costa Email: liscosta75@yahoo.com	FM-UAN	Prevalence and risk factors for hepatitis B and C among health professionals in National Hospitals in Luanda-Angola 2014.	10:50– 11:10	
	Overview on main results of posters = 5min/poster Facilitators: Prof. Dr Pedro Guimarães, Prof. Dr Alfredo Buza, Prof. Dr Armando Valente and Prof. Dr Gabriel Miguel Public target: Authors of posters, guests and other participants				
	Lunch				

PANEL V - "TECHNOLOGIES FOR THE SERVICE OF SOCIETY"

Date: 11/09/2015;

Venue: Sala 2/hall 2, CTA/Luanda (upstairs)

Start/end: 8:30 - 11:10

Moderators: Dr Doutor Artur Pimenta/MINPET and Prof. Fausto Simões/FEC-UAN

Relators: MSc Sebastião Tingão and Dr Manuel Domingos Cadete/MINCT

N/O	Presenters and contacts	Institution /Country	Working Title	Time	
1	Dr Ricardo Queirós ricardo.queiros@ieee.org	FE- UAN	Liquid level measuring system using a capacitive sensor	8:30 – 8:50	
2	Dr Jorge E. Matos jorge.matos@unipiaget-angola.net	Jean Piaget/ Benguela	Noise maps as a management tool of noise pollution in urban environments: a case study of the district Graça iin Benguela.	8:50 – 9:10	
3	Dr Promise Mvelase pmvelase@csir.co.za	CHPC- South Africa	Depiction of Experimental findings for a cloud enterprise architecture	9:10 – 9:30	
4	Dr Ricardo Queirós ricardo.queiros@ieee.org	FE-UAN	Measuring electromagnetic radiation in mobile communications in Luanda.	9:30 – 9:50	
5	Dr Emmanuel Bobobbe emmanuel.bobobee@gmail.com	Inst. de Invest. Agronómica, South Africa	Development demonstration and promotion of mechanical cassava harvesting technology for Africa-Experiences from Ghana and South Africa	9:50 – 10:10	
		Coffee	break	(10:10 - 10h30)	
6	Dr Alberto Wapota alberto.wapota@umn.ed.ao	UMN	Neutral-fuzzy computational model for predicting time series.	10:30 – 10h50	
7	Dr Ricardo Queirós ricardo.queiros@ieee.org	FE-UAN	Virtual instrument composed by oscilloscope, spectrum analyser and signal generator.	10:50– 11:10	
			s of posters = 5min/poster alente, Prof. Dr Gabriel Miguel, Prof. Dr Pedro Guimarães)	11:15– 13:15	
	Lunch				

ROUND TABLE - 14:30 - 15:15

"THE INSERTION OF SCIENCE, TECHNOLOGY AND INNOVATION IN THE COUNTRY'S DEVELOPMENT STRATEGY"

<u>Participants:</u> Holders of ministerial portfolios, Representatives of Regional and International Organizations that support Science, invited experts - Special Guest: **Mr Gatachew Engida, Deputy General Director of UNESCO.**

Moderator: Prof. Dr. João Sebastião Teta, State Secretary of Science and Technology

Relators: Dr João Milando/FL-UAN, Mr Alexandre Costa/MINCT and FL/UAN MSc Matondo Junior

15:15 – 16:00 CLOSING CEREMONY OF THE 4TH NATIONAL CONFERENCE ON SCIENCE, TECHNOLOGY AND INNOVATION

- Final statement (reading and approval)
- Certificate award session
- Closing Speech

ORGANIZING COMMITTEE OF THE 4TH NATIONAL CONFERENCE ON SCIENCE, TECHNOLOGY AND INNOVATION

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- Prof. Dr. Eng. João Sebastião Teta (SECT) Vice-Presidente Honorífico
- Prof. Dr. Eng. Orlando da Mata (Reitor/UMN) Membro Honorífico
- Prof. Dr David Strangway/Canadá Membro Honorífico

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- Mr Alexandre Costa,
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- Prof. Dr. António Alcochete
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Protocol

- MINCT protocol service (Coordinator)
- Supporting staff

Ministry of Science and Technology

Complexo Administrativo do Talatona – Rua do MAT, Prédio B, Porta A - R/C, 6º and 7º Andares – Talatona/Luanda - Angola, www.stconference-angola.og.ao e Portal "ciencia.ao"

Marketing

- Mr. Alexandre Cose (Coordinator)
- Sra Anabela António
- MSc. Bambi Félix
- MSc. Gaspar Freitas
- MSc. Kudizola Kanhamento

Side event- 1

WORKSHOP ON BIODIVERSITY SCIENTIFIC DATA SHARING

(Side event, 4th National Conference of Science, Technology and Innovation)

Data: 10 de Setembro de 2015

Venue: Centro de Imprensa/Conference Center, CTA/Luanda

Duration: 9:00H – 1700H

Promoters: Ministry of Science and Technology (MINCT) and Global Biodiversity Information Facility (GBIF)





Ministério da Ciência e Tecnologia

Global Biodiversity Information Facility

Speakers: Representatives of the institutions that generate data and scientific information on biodiversity and invited foreign

experts.

Public target: Managers, Scientific Researchers and other people interested in the management of scientific data about biodiversity.

Facilitators: Alexandre Costa/MINCT e Rui Figueira/IICT-Portugal

Side event- 2

SEMINAR ON THE PROMOTION AND SHARING OF INNOVATION

(Side event, 4th National Conference of Science, Technology and Innovation)

Data: 10 de Setembro de 2015

Venue: Sala 2/hall 2, CTA/Luanda (upstairs)

Duration: 14:30H – 1700H

Promoters: Ministry of Science and Technology (MINCT) and the Technology Innovation Agency



Ministério da Ciência e Tecnologia



Technology Innovation Agency

Speakers: National and foreign experts

Public Target: Managers of public and private companies, scientific researchers, inventors, creators, entrepreneurs and other stakeholders in the field.

Facilitator: Sebastião e Tingão/MINCT