

TWAS 24th General Meeting
1 – 4 October 2013, Buenos Aires, Argentina

Tentative Programme

Monday, 30 September 2013

Dark shade: closed sessions (for members only)

08:30-10:00	TWAS Prizes Committee Meeting	
10:00-10:15	<i>Refreshments</i>	
10:15-12:30	TWAS Elections Committee Meeting	
12:30-14:00	<i>Lunch</i>	
14:00-15:45	TWAS Policy Development & Future Action Committee Meeting	
15:45-16:00	<i>Refreshments</i>	
16:00-17:00	TWAS Regional Offices Annual Meeting	TWAS-OWSD Advisory Panel for Women in Science Meeting
17:00-19:00	TWAS 33rd Council Meeting	
19:30	<i>Dinner in a restaurant near the Hotel</i>	

Tuesday 1 October 2013

Dark shade: closed sessions (for members only)

08:00-10:30	TWAS 24th General Meeting	
10:30 -11:00	<i>Refreshments</i>	
11:00-11:15	<i>Participants and guests to be seated</i>	
11:15-13:00	Opening Ceremony and Presentation of Prizes, Medals and Certificates	
	Opening Addresses	
	Presentations of Prizes and Medals	
	<i>30th Anniversary Presentation to TWAS Founding Fellows</i>	
	<i>Special awards for services to TWAS to:</i>	
	<ul style="list-style-type: none"> • I. Pannone • S. Fu 	
	<i>TWAS-Lenovo Science Prize to: (To be announced)</i>	
	<i>TWAS 2013 Medals to:</i>	
	<ul style="list-style-type: none"> • F.J. Barrantes • M.L. Klein • T. Nyokong 	
	<i>TWAS 2012 prizes to:</i>	
	<ul style="list-style-type: none"> • Jun Yu & D. Egamberdieva, Agricultural Sciences • A.S. Chiang, Biology • Q. Abdool Karim & G.F. Gao, Medical Sciences • Xiao-Ming Chen & S.K. Pati, Chemistry • A.L. Ahmad & K. Deb, Engineering Sciences • P.G. Eriksson, Earth Sciences • F.C. Marques, Mathematics • J.P. Paz, Physics 	
	<i>TWAS Celso Furtado Prize to: R. Paes de Barros</i>	
	<i>C.N.R. Rao Prize to: F. Qadri</i>	
	<i>Atta-ur-Rahman Prize to: (To be announced)</i>	
	<i>TWAS Regional Prize to: (To be announced)</i>	
13:00-14:30	<i>Lunch</i>	
14:30-15:15	TWAS-Lenovo Science Prize Lecture (To be announced)	

15:15-18:15	Ministerial Session: <i>Achievements & Challenges in STI for development</i> Chair: L. Baraño Co-Chair: C. Bai
15:15-15:30	<i>Introductory Keynote Address: C. Juma</i>
15:30-15:40	L. Baraño, Minister of Science, Technology and Innovation, Argentina
15:40-15:50	M.A. Raupp, Minister of Science, Technology and Innovation, Brazil (Tbc)
15:50-16:00	D. Dalkie, Minister of Science and Technology, Ethiopia (Tbc)
16:00-16:10	T. Ramasami, Secretary to Govt. of India, DST, (representing S.J. Reddy, Minister for S&T & Earth Sciences, India)
16:10-16:20	M.C. Carozza, Ministry of Education, University and Research, Italy (Tbc)
16:20-16:30	Elías Micha, Adjunct Director for Regional Development, CONACYT (representing E. Cabrero Mendoza, Director General, CONACYT, Mexico)
16:30-17:00	<i>Refreshments</i>
17:00-18:15	Ministerial Session: <i>Achievements & Challenges in STI for development (cont.)</i>
17:00-17:10	I.O. Basse Ewa, Federal Ministry of Science and Technology, Nigeria (Tbc)
17:10-17:20	D. Hanekom, Ministry of Science and Technology, South Africa
17:20-18:15	Discussions
18:15-19:15	Symposium 1: <i>Scientific and Technological Development in Argentina</i>
18:15-18:30	<i>National Plan for Science, Technology and Innovation. Initiatives to promote technological innovation in the agri-industrial sector</i> A. Mentaberry
18:30-18:45	<i>CONICET, Facts and Challenges</i> R. Salvarezza
18:45-19:00	<i>Title to be announced</i> E. Calvo
19:00-19:15	<i>Agrobiotechnology research in INTA (National Institute for Agricultural Research)</i> H. Esteban Hopp
20:00	<i>Welcome Reception</i>

Wednesday, 2 October 2013

08:30-10:30	Symposium 2: <i>Quantum Information and Quantum Computing</i> Co-Conveners: L. Davidovich & Jian-Wei Pan
08:30-09:00	<i>How to efficiently characterize a quantum process (theory and experiment)</i> J.P. Paz
09:00-09:30	<i>Quantum interferometry and quantum information as seen from Gdansk</i> M. Zukowski
09:30-10:00	<i>Coherence and entanglement by photon subtraction</i> G.S. Agarwal
10:00-10:30	<i>To be confirmed</i> Jiangfeng Du
10:30-11:00	<i>Refreshments</i>
11:00-11:30	C.N.R. Rao Prize Lecture <i>Infectious disease diagnosis, prevention and control using biomedical advances in science</i> F. Qadri
11:30-12:00	TWAS-Celso Furtado Prize Lecture <i>The dynamics of inequality in Brazil</i> R. Paes de Barros
12:00-13:00	Invited Lectures
12:00-12:30	<i>Quantitative simulations on the evolution of dune fields with a trans-scale model</i> Xiaojing Zheng
12:30-13:00	<i>Doing science in the developing world: The International Year of Crystallography as facilitator</i> G.R. Desiraju
13:00-14:00	<i>Lunch</i>

14:00-17:00	Lectures by Awardees of TWAS 2012 Prizes Biological & Earth Sciences	Lectures by Awardees of TWAS 2012 Prizes Physical Sciences
14:00-14:30	<i>Not all genes are created equal: Genes and their two-tracked actions</i> J. Yu, Agricultural Sciences	<i>Flexible porous metal-azolate frameworks for adsorption, separation and sensing</i> X.M. Chen, Chemistry
14:30-15:00	<i>Role of microorganisms in adaptation of crops to environmental stresses</i> D. Egamberdieva, Agricultural Sciences	<i>Transport, magnetic and optical properties of graphenes, decorated graphenes and graphene nanoribbons</i> S.K. Pati, Chemistry
15:00-15:30	<i>The Drosophila connectome project</i> A.S. Chiang, Biology	<i>Sustainable environmental protection and healthcare via membrane-based technology</i> A.L. Ahmad, Engineering Sciences
15:30-16:00	<i>The Neoarchaean-Palaeoproterozoic sedimentary (volcanic) record (Kaapvaal craton and others): more questions than answers?</i> P.G. Eriksson, Earth Sciences	<i>Innovization: Discovering innovative insights through multi-objective optimization</i> K. Deb, Engineering Sciences
16:00-16:30	<i>Preventing HIV infection in women: A global imperative</i> Q. Abdool Karim, Medical Sciences	<i>The Willmore Conjecture</i> F.C. Marques, Mathematics
16:30-17:00	<i>Influenza virus entry and release: From 2009 pandemic to bat-derived genome</i> G.F. Gao, Medical Sciences	<i>Decoherence and the transition from quantum to classical physics</i> J.P. Paz, Physics
17:00-17:30	<i>Refreshments</i>	
17:30-19:00	Induction of new TWAS Members and Young Affiliates	
19:30	<i>Dinner in a restaurant near the Hotel</i>	

Thursday, 3 October 2013

09:00-11:45	Medal 2013 Lectures		
09:00-09:45	<i>Exploring the nanoscale realm of the brain</i> F.J. Barrantes		
09:45-10:30	<i>Understanding Nature's voltage gated ion channels using molecular dynamics simulation</i> M.L. Klein		
10:30-11:00	<i>Refreshments</i>		
11:00-11:45	<i>Combination therapy, a solution to Africa's silent killer: cancer</i> T. Nyokong		
11:45-12:15	Atta-ur-Rahman Prize Lecture (To be announced)		
12:15-13:00	Screening of new TWAS Documentary		
13:00-14:30	<i>Lunch</i>		
14:30-16:30	Presentations by Young Affiliates Medicine	Presentations by Young Affiliates Chemistry – Earth Sciences	International Symposium on Chemistry <i>(Organized by the Royal Society of Chemistry)</i> Convener: A. Palermo
16:30-17:00	<i>Refreshments & Poster Session</i>		
19:30	<i>Gala dinner</i>		

Friday, 4 October 2013

09:00-10:00	Presentations by Young Affiliates Molecular Biology	Presentation by Young Affiliates Astrophysics – Mathematics
10:00-10:30	<i>Refreshments</i>	
10:30-11:00	TWAS-ROLAC Prize Lecture (To be announced)	
11:00-12:00	Closing Ceremony	
12:00	<i>Lunch</i>	