TWAS 18th General Meeting

hosted by The Abdus Salam International Centre for Theoretical Physics (ICTP)

Programme

13 - 14 November 2007 Trieste, Italy TWAS would like to express its gratitude to:

- The Government of the Republic of Italy for providing financial support
 The United Nations Educational, Scientific and Cultural Organization (UNESCO) for providing administrative support
 The Abdus Salam International Centre for Theoretical Physics (ICTP) for hosting the TWAS Secretariat and this meeting.

Sunday, 11	November	Adriatico Guest H	HOUSE (AGH)
Parallel Committee	e Meetings		
Dark shade: closed se	essions (for committee members only)		
16.00 – 19.00	TWAS Statutes & Bylaws Committee	LUNDQVIST TWAS Regional Offices Meeting	ROOM A
19.30	DINNER		CAFETERIA

Monday, 12 NovemberADRIATICO GUEST HOUSE (AGH)Special Committee Meetings (Committee Members Only)ADRIATICO GUEST HOUSE (AGH)Dark shade: closed sessions (for committee members only)ADRIATICO GUEST HOUSE (AGH)				
08.30 - 9.00	Registration	Lower Level 1		
08.30 - 0.00	TWAS Prizes Committee Meeting	LUNDQVIST		
10.00 - 10.15	Refreshments			
10.15 – 13.00	TWAS Elections Committee Meeting	Lundqvist		
13.00 – 14.30	Buffet Lunch	CAFETERIA		
14.30 – 16.30	TWAS 27 th Council Meeting (Council Members only)	Lundqvist		
16.30 – 17.00	Refreshments			
17:00 – 19.00	TWAS 27 th Council Meeting [<i>cont.</i>] (Council Members only)	Lundovist		
19.30 -	Dinner	AT RESPECTIVE HOTELS		

Tuesday,	13 November	Main Building (MB)
08.30 – 11.30	Registration	Lobby
08.30 – 11.00	TWAS 18 th General Meeting (TWAS Members only)	Main Lecture Hall
11.00 –11.30	Refreshments	

Tuesday,	13 November (cont.)	MAIN BUILDING (MB)
11.30 – 12.30	Opening Ceremony and Presentation of Prizes, N	Medals & Certificates Main Lecture Hall
	Opening Addresses Presentation of TWAS Prizes to: - K.L. Heong (Malaysia), Agricultural Sciences - P. León-Azofeifa (Costa Rica), Biology - R. Ramesh (India), Earth Sciences - J. Convit (Venezuela), Medical Sciences	- C.Y. Chang (Taiwan, China), <i>Engineering Sciences</i> - C. Landim (Brazil), <i>Mathematics</i> - C.M. Che (China) <i>Chemistry</i> - D.D. Sarma (India), <i>Physics</i>
	Presentation of TWAS Medal to: - H. Chaimovich (Brazil)	
	Presentation of TWAS-ROCASA Prize for Public Under - P.A. Hoodbhoy, Pakistan	standing of Science to:
	Presentation of TWAS Membership Certificates to: Agricultural Sciences Structural, Cell & Molecular Biology Systems Biology Neurosciences Medical & Heath Sciences Chemical Sciences Earth Sciences	Chatoo, B.B. (India); Clegg, M.T. (USA); Obi, T. (Nigeria); Siddiqui, K.A. (Pakistan) Silva J.L. (Brazil) Deng, Z. (China); Raghavendra, A.S. (India) Ventura, D.F. (Brazil); Yang, X. (China) Kalil, J. (Brazil); Laurencin, C.T. (USA) Ganesh, K.N. (India); Yam, V.W.W. (China) Nobre, C. (Brazil); Upreti, B.N. (Nepal)
	Mathematical Sciences Social & Economic Sciences	Hans-Gill, R.J. (India) Reis, E. (Brazil); Zhang K. (China)
	Presentation of Certificates to TWAS Young Affiliates: Biological Sciences: Physical Sciences:	Ramanitrahasimbola, D. (Madagascar); Beyene, N.W. (Ethiopia); Xu, T. (China); Mohyuddin, A. (Pakistan); De Ungria, M.C.A. (Philippines), Afshari, R. (Iran), Larrain, J. (Chile) Rozikov, U. (Uzbekistan); Mahdi, M.A. (Malaysia); Ngo, V.T. (Vietnam); Taele, B. (Lesotho); Ramakrishna, S.A. (India); Pati, S.K. (India); Oguzie, E. (Nigeria); Osowole, A. (Nigeria)
12.30 – 14.30	Lunch	Cafeteria

Tuesday, 13 November (cont.)

MAIN BUILDING (MB)

14.30 – 16.30	Trieste Science Prize Lectures Main Lecture Hall Chair: CNR Rao, India Rapporteur: EN Sabiiti, Uganda		
14.30 – 15.30	<i>Transgenic plants: Development and applications in basic and applied research</i> L. Herrera-Estrella, Mexico (Agricultural Sciences)		
15.30 – 16.30	Creativity in organic synthesis: Harnessing synergy with nature for human well-being G. Mehta, India (Chemical Sciences)		
16.30 – 17.00	Refreshments		
17.00 – 19.30	Symposium: Status and Prospects of Science and Technology in Pakistan Convener: AU Rahman, Pakistan Rapporteur: M.I. Choudhary, Pakistan	Main Lecture Hall	
17.00 – 17.30	The current status and future prospects of science and technology and higher education in Pakistan A.U. Rahman, Pakistan		
17.30 - 17.45	<i>Recent initiatives in S&T and higher education</i> M.I. Choudhary, Pakistan		
17.45 – 18.00	Information technology revolution in Pakistan N. Malik. Pakistan		
18.00 – 18.15	60 years of agriculture research in Pakistan A. Muhammed, Pakistan		
18.15 – 18.30	<i>Biomedical research in Pakistan</i> S. Riazuddin, Pakistan		
18.30 – 18.45	<i>Mathematical sciences in Pakistan</i> T. Hussain, Pakistan		
18.45 – 19.00	Human genome project – Pakistan's contribution Q. Mehdi, Pakistan		
19.00 – 19.30	Conclusions		
20.00 -	Dinner	'la Marinella' Fish Restaurant	

Wednesday, 14 November

ADRIATICO GUEST HOUSE (AGH)

08.30 - 09.30	TWAS 2007 Medal Lecture Kastl Chair: P. Berjak, South Africa Rapporteur: Deng Z., China			
08.30 - 09.30	Functional and structural implications of the interfacial composition of association colloids: From catalysis to shape transitions H. Chaimovich, Brazil			
09.30 - 10.30		the Public Understanding of Rapporteur: M. Shabat, Germany	Science	Kastler
09.30 - 10.30	Teaching science badly - and well P. Hoodbhoy, Pakistan			
10.30 – 11.00	Refreshments			
11.00 – 13.00	Lectures by Awardees of TWAS Prizes			
	Biological Sciences	Giambiagi	Physical Sciences	Kastler
	Chair: VP Titanji, Cameroon	Rapporteur: J. Chela Flores, Italy	Chair: Bai C., China	Rapporteur: A. Safavi, Iran
11.00 – 11.30	Communicating agriculture to rural farmers K.L. Heong (Malaysia), Agriculture		<i>Nano-bio physics and electi</i> C.Y. Chang (Taiwan, China)	
11.30 – 12.00	Deafness in a large Costa Rican family linked to point-mutation in the gene for an actin regulatory protein (hDIA1) that repairs the actin cytoskeleton P. León-Azofeifa (Costa Rica), Biology		Stationary non-equilibrium C. Landim (Brazil), Mathem	
12.00 – 12.30	High resolution reconstruction of Indian monsoon rainfall using oxygen isotopes in speleothems and marine sediments R. Ramesh (India), Earth Sciences		Reactive metal-ligand multiple bonded and phosphorescent transition metal complexes for catalysis and materials science applications C.M. Che (China), Chemistry	
12.30 – 13.00			Sr_2FeMoO_6 – A fascinating of D.D. Sarma (India), Physic:	1
13.00 – 14.30	Lunch			Cafeteria

Wednesday, 14 November (cont.)

14.30 – 16.35	Scientific Presentations by TWAS Young Affiliates		
14.30 – 14.55	Biological Sciences GIAMBIAGI Chair: E. del Pino, Ecuador Rapporteur: P. McGrath, UK Popular medicine and its scientific reasons: Case of two plants D. Ramanitrahasimbola, Madagascar	Physical SciencesKASTLERChair: J. Palis, BrazilRapporteur: JL Moran-Lopez, MexicoGibbs measures on Cayley tree: Contour methodU. Rozikov, Uzbekistan	
14.55 – 15.20	Could nanobiotechnology be the solution for the diagnosis of neglected tropical diseases? Brillouin-erbium fiber lasers for multiple wavelengths M.A. Mahdi, Malaysia M.W. Beyene, Ethiopia		
15.20 – 15.45	<i>Revealing the role of UNC-31 in dense core vesicle exocytosis using C.elegans model system</i> T. Xu, China	<i>Stacked triangular XY antiferromagnets: End of a controversial issue on the phase transition</i> V.T. Ngo, Vietnam	
16.10 – 16.35	Distribution of transplantation antigens (HLA) in ethnic groups from Pakistan A. Mohyuddin, Pakistan	CdTe thin films solar cell structures: An overview on device and technology issues B. Taele, Lesotho	
16.35 – 17.00	Refreshments		
17.00 – 18.40	Scientific Presentations by TWAS Young Affiliates (cont.)		
17.00 – 17.25	Biological Sciences GIAMBIAGI Chair: E. del Pino, Ecuador Rapporteur: P. McGrath, UK Impact of DNA evidence in the Philippine criminal justice system M.C.A. De Ungria, Philippines	Physical SciencesKASTLERChair: J. Palis, BrazilRapporteur: JL Moran-Lopez, MexicoDesign of metamaterials at optical frequenciesS.A. Ramakrishna, India	
17.25 – 17.50	The effects of opioid analgesics: From epidemiology to molecular level R. Afshari, Iran I.R.	 Structure and electronic properties of DNA base-pairs and modified DNA S.K. Pati, India 	
17.50 – 18.15	<i>From developmental biology to tissue regeneration</i> J. Larraín, Chile	<i>Challenges and experiences in organic corrosion inhibitor research</i> E. Oguzie, Nigeria	
18.15 – 18.40		The search for broad-spectrum inorganic antimicrobials A. Osowole, Nigeria	
18.40 – 19.30	Closing Ceremony Chair: J. Palis, Brazil Rapporteur: D. Balasubramania	an, India	
19.30 -	Dinner	Cafeteria	