

PROGRAMME AT A GLANCE

	TIME	ADMINISTRATION / SOCIAL	AUDITORIUM 2	PLENARY SESSIONS	DEMONSTRATIONS / WORLD CAFÉ / FILM SCREENINGS / MEETINGS
SUNDAY, 4 SEPTEMBER					
	15h00	Registration (Gallery)			
	16h00				Network Meeting: Cape Town Declaration (by invitation) (Meeting Room 1.55)
	18h00	Welcome Reception (Ballroom West)			
MONDAY, 5 SEPTEMBER	07h00	Registration (Gallery)			
	08h45		Opening Plenary Session (Auditorium 2)		
	10h30	Refreshment break Posters Exhibition (Khoroni)			
	11h10				
	12h25	Lunch Posters Exhibition (Khoroni)			12h45 Demonstration: MOUTHMUSIC AND CLAPPING: CULTURE ACROSS SCIENCES (Khoroni)
	13h50				
	15h05	Refreshment break Posters Exhibition (Khoroni)			
	15h45				
	17h15				Network Meeting: Rio+20 Summit (by invitation) (Meeting Room 1.55) Film Screening: The Ancient Astronomers of Timbuktu (Auditorium 2)
	19h00	Evening Excursion (Two Oceans Aquarium)			
TUESDAY, 6 SEPTEMBER	07h00	Registration (Gallery)			World Café: THE WORLD CAFÉ SCIENTIFIQUE – CONVERSATION AS A CATALYST FOR CHANGE (Khoroni)
	09h00		Second Plenary Session: WHAT CAN CULTURE DO FOR SCIENCE AND TECHNOLOGY? (Auditorium 2)		
	10h30	Refreshment break Posters Exhibition (Khoroni)			
	11h10				
	12h25	Lunch Posters Exhibition (Khoroni)			12h45 Demonstration: SCIENCE GRAFFITI: STREET-TOUGH SCIENCE FOR INTERCULTURAL LEARNING (Khoroni)
	13h50				
	15h05	Refreshment break Posters Exhibition (Khoroni)			15h15 Demonstration: TEACHING MAGNETISM IN EXPERIMENTAL FORM (Khoroni)
	15h45				
	17h15				Film Screening: Cosmic Africa (Auditorium 2)
19h00	Evening Excursion (Iziko South African Museum)				
WEDNESDAY, 7 SEPTEMBER	07h00	Registration (Gallery)			World Café: THE WORLD CAFÉ SCIENTIFIQUE – CONVERSATION AS A CATALYST FOR CHANGE (Khoroni)
	09h00		Third Plenary Session: MEGATRENDS AND THE NEED FOR RESILIENCE (Auditorium 2)		
	10h30	Refreshment break Posters Exhibition (Khoroni)			
	11h10				
	12h25	Lunch Posters Exhibition (Khoroni)			12h45 Demonstration: WOW, I DIDN'T EXPECT THAT TO HAPPEN! (Khoroni)
	13h50				
	15h05	Refreshment break Posters Exhibition (Khoroni)			15h15 Demonstration: EXPERIMENTING WITH ATTRACTIVE OBJECTS (Khoroni)
	15h45				
	17h15				SAATEC Board Meeting (by invitation) (Meeting Room 1.4a)
19h00	Gala Dinner (Moyo Stellenbosch at Spier Wine Estate)				
THURSDAY, 8 SEPTEMBER	07h00	Registration (Gallery)			World Café: THE WORLD CAFÉ SCIENTIFIQUE – CONVERSATION AS A CATALYST FOR CHANGE (Khoroni) SAATEC AGM (Meeting Room 1.4a)
	09h00		Fourth Plenary Session: LEARNING AND SOCIAL ENGAGEMENT IN SCIENCE AND MATHS OUTSIDE OF SCHOOL (Auditorium 2)		
	10h30	Refreshment break Posters Exhibition (Khoroni)			
	11h00				
	12h15	Lunch Posters Exhibition (Khoroni)			12h35 Demonstration: CHEMISTRY IS ALL AROUND! (Khoroni)
	13h30				
	14h45	Refreshment break Posters Exhibition (Khoroni)			
	15h15		Closing Plenary Session: THE WAY FORWARD (Auditorium 2)		
17h00				IPC Meeting: Science Center World Summit 2014 (by invitation) (Meeting Room 1.4a)	

CONCURRENT SESSIONS

	TIME	AUDITORIUM 2	MEETING ROOM 1.4A	MEETING ROOM 1.4B	MEETING ROOM 1.6A	MEETING ROOM 1.6B
SUNDAY, 4 SEPTEMBER		GENERAL INTEREST	RECOGNISING THE MULTI-CULTURAL ROOTS OF SCIENCE AND TECHNOLOGY	SCIENCE AS PART OF CULTURE	BUILDING COMMUNITIES THROUGH SCIENCE: THE ROLE OF SCIENCE CENTRES	BUILDING COMMUNITIES THROUGH SCIENCE: THE ROLE OF SCIENCE CENTRES
			THE VALUE OF INDIGENOUS KNOWLEDGE SYSTEMS			
			SCIENCE AS PART OF CULTURE			
	15h00					
16h00						
18h00						

MONDAY, 5 SEPTEMBER	07h00					
	08h45					
	10h30					
	11h10	BUILDING CAPACITY ACROSS AFRICA: NEXT STEPS AFTER THE PRE-CONGRESS WORKSHOP <small>(Auditorium 2)</small>	TWO-WAY SCIENCE LEARNING IN MULTI-CULTURAL COMMUNITIES <small>(Meeting Room 1.4a)</small>	USING THE NEW CULTURE OF SOCIAL MEDIA TO CREATE SCIENCE EXHIBITIONS <small>(Meeting Room 1.4b)</small>	SCIENCE AND ITS ROLE IN SOCIAL DEVELOPMENT <small>(Meeting Room 1.6a)</small>	THE ROLE OF SCIENCE FESTIVALS IN SCIENCE AWARENESS AND SCIENCE CENTRE PROGRAMMES <small>(Meeting Room 1.6b)</small>
	12h25					
	13h50	INTERNATIONAL APPROACHES TO THE DEVELOPMENT OF SCIENCE CENTRES AND NON-FORMAL SCIENCE EDUCATION <small>(Auditorium 2)</small>	BRIDGING INDIGENOUS ASTRONOMY AND WESTERN SCIENCE <small>(Meeting Room 1.4a)</small>	PROMOTING WOMEN IN SCIENCE ACROSS CULTURES: THE CONTRIBUTION OF SCIENCE CENTRES <small>(Meeting Room 1.4b)</small>	A CAPACITY BUILDING PROGRAMME FOR SCIENCE CENTRES IN SOUTH AFRICA: EXPERIENCES OVER FIVE YEARS <small>(Meeting Room 1.6a)</small>	ARE WE DEVELOPING LEADERS THROUGH NOYCE? <small>(Meeting Room 1.6b)</small>
	15h05					
	15h45	RETHINKING THE SCIENCE CENTRE MODEL <small>(Auditorium 2)</small>	UNDERSTANDING AND ACCEPTANCE OF EVOLUTION <small>(Meeting Room 1.4a)</small>	A CHALLENGE FOR SCIENCE COMMUNICATION: ENGAGING THE UNENGAGED <small>(Meeting Room 1.4b)</small>	INTEGRATING CULTURAL DIFFERENCES IN UNIVERSAL SCIENCE ACTIVITIES <small>(Meeting Room 1.6a)</small>	TACKLING HIV/AIDS THROUGH SCIENCE CENTRES <small>(Meeting Room 1.6b)</small>
17h15						
19h00						

TUESDAY, 6 SEPTEMBER	07h00					
	09h00					
	10h30					
	11h10	THE RESEARCH SHOWS..... <small>(Auditorium 2)</small>	OPPORTUNITIES CREATED BY ACKNOWLEDGING THE MULTI-CULTURAL ROOTS OF SCIENCE <small>(Meeting Room 1.4a)</small>	IT'S THE INTERNATIONAL YEAR OF "X"... SO WHAT DO WE DO? <small>(Meeting Room 1.4b)</small>	THE INITIATION OF SCIENCE CENTERS IN THE NAMES REGION <small>(Meeting Room 1.6a)</small>	INTERNATIONAL COLLABORATIONS: WHAT DOES IT TAKE TO BUILD SUSTAINABLE COLLATERAL? <small>(Meeting Room 1.6b)</small>
	12h25					
	13h50	FROM THE MILLENNIUM DEVELOPMENT GOALS (MDG) TO THE TORONTO DECLARATION: WHICH CONTRIBUTION OF SCIENCE CENTRES FOR GLOBAL CHALLENGES (PART 1) <small>(Auditorium 2)</small>	CREATING AWARENESS ON THE VALUE OF TRADITIONAL KNOWLEDGE DIGITAL LIBRARY (TKDL) IN FIGHTING UNDUE CLAIMS OF PATENTS <small>(Meeting Room 1.4a)</small>	BREAKING INTO A NEW MARKET: DEVELOPING A GLOBAL SCIENCE CENTRE CULTURE <small>(Meeting Room 1.4b)</small>	SCIENCE GARDENS TO DEMOCRATIZE SCIENCE <small>(Meeting Room 1.6a)</small>	NETWORKING INSTEAD OF CENTRE-ING: MORE DIVERSE, BROADER REACH, CHEAPER <small>(Meeting Room 1.6b)</small>
	15h05					
	15h45	FROM THE MILLENNIUM DEVELOPMENT GOALS (MDG) TO THE TORONTO DECLARATION: WHICH CONTRIBUTION OF SCIENCE CENTRES FOR GLOBAL CHALLENGES (PART 2) <small>(Auditorium 2)</small>	WHAT ARE SCIENTISTS TRYING TO TELL ME AND SHOULD I CARE?: INVOLVING YOUTH AND FAMILIES IN SCIENCE COMMUNICATION <small>(Meeting Room 1.4a)</small>	SCIENCE AND RELIGION: A HISTORICAL, CURRENT, AND FUTURE PERSPECTIVE <small>(Meeting Room 1.4b)</small>	STRENGTHENING OUTREACH: THE POWER OF PEOPLE, PEERS, AND PARTNERSHIPS <small>(Meeting Room 1.6a)</small>	WHAT IS THE RESPONSIBILITY OF THE SCIENCE CENTER OF THE FUTURE? <small>(Meeting Room 1.6b)</small>
17h15						
19h00						

WEDNESDAY, 7 SEPTEMBER	07h00					
	09h00					
	10h30					
	11h10	DEALING WITH CONTENTIOUS TOPICS <small>(Auditorium 2)</small>	INFORMING AND ENGAGING CITIZENS ON CLIMATE CHANGE ISSUES <small>(Meeting Room 1.4a)</small>	INTERACTION OF SCIENCE AND CULTURE IN SCIENCE CENTRES AND MUSEUMS <small>(Meeting Room 1.4b)</small>	AGENCY, IDENTITY AND CAREER ASPIRATIONS: OUTCOMES OF ENTRY-LEVEL SCIENCE CENTRE WORK <small>(Meeting Room 1.6a)</small>	NOT JUST FOR KIDS: HOW CHILDREN'S MUSEUMS PROMOTE INTERCULTURAL UNDERSTANDING <small>(Meeting Room 1.6b)</small>
	12h25					
	13h50	TOWARDS RIO+20, A GREEN AND SOCIAL CROSS CULTURE TRAVELLING EXHIBITION <small>(Auditorium 2)</small>	CULTURAL PRACTICES TOOLS: EFFECTIVE MODES OF SCIENCE COMMUNICATION! <small>(Meeting Room 1.4a)</small>	SPORT AND SCIENCE EXIST IN TWO DIFFERENT WORLDS... OR DO THEY? <small>(Meeting Room 1.4b)</small>	SCIENCE CENTRES AND POLICY MAKING <small>(Meeting Room 1.6a)</small>	TEENS: A CULTURE ALL THEIR OWN <small>(Meeting Room 1.6b)</small>
	15h05					
	15h45	IS THE SCIENCE CENTRE MOVEMENT COLONIALIST? <small>(Auditorium 2)</small>	SCIENCE CENTRES FACILITATING EDUCATION WITH SCIENTISTS <small>(Meeting Room 1.4a)</small>	BEYOND GEN Z AND BEYOND CLIMATE CHANGE: WHO ARE THE NEW AUDIENCES AND ISSUES WE WILL NEED TO BE DEALING WITH? <small>(Meeting Room 1.4b)</small>	ASTRONOMY IN SCIENCE CENTRES AND COMMUNITY DEVELOPMENT <small>(Meeting Room 1.6a)</small>	CO-OPERATION WITH THE FORMAL EDUCATION SECTOR <small>(Meeting Room 1.6b)</small>
17h15						
19h00						

THURSDAY, 8 SEPTEMBER	07h00					
	09h00					
	10h30					
	11h00	SCIENCE CENTRES: CO-OPERATION WITH OTHER CULTURAL INSTITUTIONS <small>(Auditorium 2)</small>	VIEWS ON SCIENCE IN A GLOBAL WORLD <small>(Meeting Room 1.4a)</small>	COLLABORATING ACROSS THE SCIENCE CENTRE-UNIVERSITY CULTURES: COMPARING PERSPECTIVES <small>(Meeting Room 1.4b)</small>	KNOWING THE ANCIENTS' WORLD: HOW SCIENCE CENTERS CAN HANDLE ARCHAEOLOGY, PROJECTS, EXPERIENCES AND PRACTICES <small>(Meeting Room 1.6a)</small>	RELEVANCE OF SCIENCE AND TECHNOLOGY CENTERS TO SOCIAL-CULTURAL INCLUSION AND ACCESSIBILITY <small>(Meeting Room 1.6b)</small>
	12h15					
	13h30	TOWARDS THE GREATER GOOD: HOW SCIENCE CENTRE LEADERS CHANGE SOCIETY <small>(Auditorium 2)</small>	THE ROLE OF INDIGENOUS KNOWLEDGE SYSTEMS (IKS) IN CROSS-CULTURAL COMMUNICATION OF SCIENCE BY THE INTERNATIONAL COMMUNITY OF SCIENCE CENTRES <small>(Meeting Room 1.4a)</small>	SOCIAL MEDIA IN SCIENCE CENTRES – LIKE? <small>(Meeting Room 1.4b)</small>	EXPLORING THE RELEVANCE OF THE CONCEPT OF THIRD PARADIGM MUSEUMS <small>(Meeting Room 1.6a)</small>	AGENTS FOR CROSS-CULTURAL DIPLOMACY <small>(Meeting Room 1.6b)</small>
	14h45					
	15h15					
17h00						

COLOUR KEY

 ADMINISTRATION/SOCIAL	 RECOGNISING THE MULTI-CULTURAL ROOTS OF SCIENCE AND TECHNOLOGY
 PLENARY SESSIONS	 THE VALUE OF INDIGENOUS KNOWLEDGE SYSTEMS
 DEMONSTRATIONS/WORLD CAFÉS/FILM SCREENINGS/MEETINGS	 SCIENCE ACROSS CULTURES
 GENERAL INTEREST	 BUILDING COMMUNITIES THROUGH SCIENCE: THE ROLE OF SCIENCE CENTRES

15h00 – 18h00	Registration	Gallery
16h00 - 18h00	NETWORK MEETING: CAPE TOWN DECLARATION (BY INVITATION)	Meeting Room 1.55
18h00 – 22h00	WELCOME RECEPTION SPONSORED BY SAP Namkelekile e Afrika (You are welcome in Africa!)	Ballroom West
MC: Soli Philander		
Welcome Address: Executive Mayor Patricia de Lille, City of Cape Town Welcome Address: Derek Kudsee, SAP Africa		

MONDAY, 5 SEPTEMBER

07h00 – 08h45	Registration	Gallery
08h45 – 10h30	I.1 OPENING PLENARY SESSION Chair and Welcome: Mike Bruton, 6SCWC Chair, MTE Studios, South Africa	Auditorium 2
Presenters: Mike Bruton ¹ ; Hubertus Külps ² ; Minister Naledi Pandor ³ ¹ 6SCWC Chair, MTE Studios, South Africa; ² SAP, Germany; ³ Department of Science and Technology, South Africa		
Delegates and accompanying persons are invited to attend the 6SCWC Opening Plenary Session. This session will open the congress with some lively African entertainment, followed by a welcome from the 6SCWC Chair and a presentation by SAP, the 6SCWC Commercial Partner. The Honourable Minister of Science and Technology, Naledi Pandor, will then deliver the Welcome Address and officially open the Congress and Exhibition.		
Performance Chair and Welcome: Mike Bruton Plenary Address 1: Hubertus Külps Welcome Address and Congress and Exhibition Opening: Honourable Minister of Science and Technology, Naledi Pandor		

10h30 – 11h10	Refreshment break Posters Exhibition	Khoroni
---------------	--	---------

11h10 - 12h25 CONCURRENT SESSIONS

11h10 - 12h25	1.2a BUILDING CAPACITY ACROSS AFRICA: NEXT STEPS AFTER THE PRE-CONGRESS WORKSHOP	Auditorium 2
Session Convenor: Mohamed Hassan, IAP - Global Network of Science Academies, Italy		
Presenters: Graham Durant ¹ ; Susan Stocklmayer ² ; Julie Cleverdon ³ ; Alejandra León-Castellá ⁴ ; Isaac Ramovha ⁵ ¹ Questacon, Australia; ² Australian National University, Australia; ³ Cape Town Science Centre and SAASTE, South Africa; ⁴ CIENTEC, Costa Rica ⁵ Department of Science and Technology, South Africa		
At the opening of the 2009 African Science Communication Conference, Professor Mohamed Hassan stated "Africa's sustainability problems can only be solved by science-based solutions, and effective communication must play a key role in this." His key recommendations for strengthening science communication in Africa included creating at least one science centre in each African country to bring science closer to society. The Pre-Congress Workshop is part of a strategic, long-term programme to develop the future leaders and managers of the science centre field in Africa. This session reflects on the workshop outcomes and considers follow-up partnerships and initiatives to build further capacity.		

11h10 - 12h25	1.2b TWO-WAY SCIENCE LEARNING IN MULTI-CULTURAL COMMUNITIES	Meeting Room 1.4a
Session Convenor: Chevy Humphrey, Arizona Science Centre, USA		
Presenters: Linda Silver ¹ ; Mikko Myllykoski ² ; Hooley McLaughlin ³ ¹ Technology Development Committee, United Arab Emirates; ² Heureka - The Finnish Science Centre, Finland; ³ Ontario Science Centre, Canada		
Science provides an opportunity to incorporate multi-cultural perspectives. Topics may come up in the context of the classroom or community where both the teacher and the community can learn together. This session will help participants become more aware of the curriculum policies and the knowledge and understanding outcomes associated with teaching in these communities. Each participant will review the following: how different multi-cultural communities might view the world in valid and different ways; how to avoid making judgments when contrasting views; how to ensure that their perspectives lead to an understanding of their culture, without being superficial; and how to integrate the concept that knowledge production is socially based, and that there is no one true way of understanding and explaining the world: explanations arise from culture. The panelists will provide four examples that will include challenges, pitfalls, and insights as to how each organization integrates their programming into a multi-cultural perspective.		

11h10 - 12h25	1.2c USING THE NEW CULTURE OF SOCIAL MEDIA TO CREATE SCIENCE EXHIBITIONS	Meeting Room 1.4b
Session Convenor: Wayne LaBar, Liberty Science Center, USA		
Presenters: Wayne LaBar ¹ ; Michael Harvey ² ; Luigi Amodio ³ ; Ann Follin ⁴ ¹ Liberty Science Center, USA; ² Australian Museum, Australia; ³ Fondazione Idis-Città della Scienza, Italy; ⁴ Swedish National Museum of Science and Technology, Sweden		
Worldwide there is a new culture that has regional qualities and is shared across international boundaries - social media as personified by such sites as Facebook, Twitter and others. These communities allow for science topics to be discussed and incorporated into culture. The power and popularity of this new form of community is one that science centers have begun to utilize in terms of marketing as well as a means to engage the public on the web. But how can this culture as well as its access to other areas of our society make changes in the physical world of the science centre? This session will explore how organizations in different cultures are utilizing this phenomenon and culture as part of creating science exhibitions. Increasingly access to individuals from all walks of life allows science center the chance to make exhibitions that are more relevant, of more interest and in fact perhaps even created by the public. Surrounding this idea there will also be discussion on the sharing of authority, the verification of content, and the management of expectations through different projects.		
11h10 - 12h25	1.2d SCIENCE AND ITS ROLE IN SOCIAL DEVELOPMENT	Meeting Room 1.6a
Session Convenor: Vera Adams, Rhodes University, South Africa		
Presenters: Lorenzo Dalvit ¹ ; Greg Ruiters ² ; Lynn Dierking ³ ; Colleen Chisita ⁴ ; Valerie Corfield ⁵ ¹ Rhodes University, South Africa; ² University of the Western Cape and Rhodes University, South Africa; ³ Oregon State University, USA; ⁴ Harare Polytechnic, Zimbabwe; ⁵ University of Stellenbosch and Medical Research Council, South Africa		
Billions are spent annually on scientific innovations to empower countries to become "knowledge societies" capable of contributing to global economic, social and cultural transformation. However, the development of new technologies must take into account what is appropriate to a social situation at a particular point of time and should be free from adverse effects like environmental imbalances. Scientists should develop innovative technologies through engaging more closely with communities in an effort to understand their basic needs, traditional technologies, cultures and values. This interaction should benefit communities by providing skills development, employment and an opportunity to utilise their indigenous knowledge and resources. This session will explore how applicable and practical this is for communities with different socio-economic, political and cultural practices.		
11h10 - 12h25	1.2e THE ROLE OF SCIENCE FESTIVALS IN SCIENCE AWARENESS AND SCIENCE CENTRE PROGRAMMES	Meeting Room 1.6b
Session Convenor: Anja Fourie, Scifest Africa, South Africa		
Presenters: Anja Fourie ¹ ; Rudi Horak ² ; Pichai Sonchaeng ³ ; Robert Firmhofer ⁴ ¹ Scifest Africa, South Africa; ² Sci-Enza, South Africa; ³ National Science Museum, Thailand; ⁴ Copernicus Science Centre, Poland		
Science festivals advance the public awareness, appreciation and understanding of science through a programme of high-profile interactive events hosted in one location over a short period of time. The objectives of science festivals are the same as those of science centres, and each one plays an important role in its relevant community, whether it be in developing or developed countries. But science festivals also offer science centres the opportunity to take science to the people, engage with new audiences, and raise the profile of their science centre through the media coverage generated by such high-profile events. The status, roles and impact of science festivals around the world will be evaluated and international best practice defined. The future role of science festivals, the pros and cons of their partnerships with science centres, and the concept of "co-opetition" will be debated.		
12h25 - 13h50	Lunch Posters Exhibition Demonstration	Khoroni
12h45	1.3 DEMONSTRATION: MOUTHMUSIC AND CLAPPING: CULTURE ACROSS SCIENCES	Khoroni
Demonstrator: Michael Bradke MobilesMusikMuseum, Germany		
Music programs can combine input from several sciences. Musical instruments are an outcome of intense long-time technical evolution, including of the basics of physics, using local materials and natural resources. Playing music needs the development of communication skills and social game rules. Getting the option to start with making music in a science centre/exhibition context draws, and brings together different audiences: parents with young kids, teenagers and interested adults. Interactive Music programs can create an atmosphere of creativity and openness for social and cultural learning. This demonstration will show examples together with some practical musical input from the rich collections of the MobileMusicMuseum. Come and join some great musical games, learn about ClappingCulture and MouthMusic.		
13h50 - 15h05	CONCURRENT SESSIONS	
13h50 - 15h05	1.4a INTERNATIONAL APPROACHES TO THE DEVELOPMENT OF SCIENCE CENTRES AND NON-FORMAL SCIENCE EDUCATION	Auditorium 2
Chair: Anthony (Bud) Rock, ASTC, USA		
Presenters: Mohamed Hassan ¹ ; Thebe Medupe ² ; Robert Firmhofer ³ ¹ IAP - Global Network of Science Academies, Italy; ² University of Cape Town, South Africa; ³ Copernicus Science Centre, Poland		
This session will include a selection of invited speakers to present on international approaches to the development of science centres and non-formal science education.		
Invited Speaker: Mohamed Hassan, African Academy of Sciences, global action to promote STI in Africa Invited Speaker: Thebe Medupe, African Indigenous Knowledge Systems and science centres Invited Speaker: Robert Firmhofer, Engaging, enhancing motivation and empowering – European approaches to contextual learning in science centres Discussion		

13h50 – 15h05	1.4b BRIDGING INDIGENOUS ASTRONOMY AND WESTERN SCIENCE	Meeting Room 1.4a
Session Convenor: Victoria Coats, Oregon Museum of Science and Industry, USA		
Presenters: Nancy Maryboy ¹ ; David Begay ¹ ; Chad Kalepa Baybayan ² ; Ka'iu Kimura ² ; ¹ Indigenous Education Institute, USA; ² Imiloa Astronomy Center of Hawaii, USA		
Engage with presenters from innovative informal science projects that explore Indigenous Astronomy. See and hear thought-provoking ideas, images, and challenges from projects collaborating across cultures to create reciprocal learning experiences. Collaborations among indigenous knowledge holders and western science educators can increase our understanding of the natural world and foster mutually beneficial relationships between multiple perspectives. Indigenous Astronomy can bring new insights to Western Astronomy and a more balanced way to know the universe. Informal science education projects in many different settings are collaborating with indigenous educators, scientists, elders and communities to create richer learning experiences for diverse audiences.		

13h50 - 15h05	1.4c PROMOTING WOMEN IN SCIENCE ACROSS CULTURES: THE CONTRIBUTION OF SCIENCE CENTRES	Meeting Room 1.4b
Session Convenor: Anne-Marie Bruyas, Fondazione Idis-Città della Scienza, Italy		
Presenters: Diana Malpede ¹ ; Valerie Corfield ² ; Alejandra León-Castellá ³ ; Sheena Laursen ⁴ ¹ UNESCO, France; ² University of Stellenbosch and Medical Research Council, South Africa; ³ CIENTEC, Costa Rica; ⁴ Experimentarium, Denmark		
The representation of women in the field of science is differing across cultures and societies in the world, but in most regions the share of women in research and technology careers is still extremely low. The general aim of the session is to understand how science centres and museums can convey a new image of science and of women in science, to arouse the interest of young people and make scientific careers more appealing to girls, promoting positive and counter-stereotype role models of women in science and technology. The session will take advantage of the multicultural dimension of the session, taking into consideration the role of women in contemporary societies from different regions of the world such as, for example, for health or environmental issues.		

13h50 - 15h05	1.4d A CAPACITY BUILDING PROGRAMME FOR SCIENCE CENTRES IN SOUTH AFRICA: EXPERIENCES OVER FIVE YEARS	Meeting Room 1.6a
Session Convenor: Anthony Lelliott, University of the Witwatersrand, South Africa		
Presenters: Shadrack Mkansi ¹ ; Susan Stockmayer ² ; Anthony Lelliott ³ ; Mike Gore ² ; Walter Staveloz ⁴ ; Rosalia Vargas ⁵ ¹ South African Agency for Science and Technology Advancement (SAASTA), South Africa; ² Australian National University, Australia; ³ University of the Witwatersrand, South Africa; ⁴ ASTC, USA; ⁵ The Pavilion of Knowledge - Ciência Viva, Portugal		
This forum discussion examines capacity building for science centres across two continents. In South Africa, the science centre community identified skills development needs at science centres, and engaged institutions to develop capacity. Workshops included exhibit building, communicating science, conference presentation and financial management. Ciencia Viva (in Portugal) discusses a network of science centres in a close relationship between local authorities, universities and companies. In this network regular meetings and training sessions are organized in order to share best practices, experiences and exhibitions. The forum discusses the changes at science centres in the two countries which have resulted from the interventions described, and plans for the future.		

13h50 - 15h05	1.4e ARE WE DEVELOPING LEADERS THROUGH NOYCE?	Meeting Room 1.6b
Session Convenor: Chee Kuen Yip, Macao Science Center, China		
Presenters: Linda Silver ¹ ; Kim Gladstone Herlev ² ; Ronen Mir ³ ; Guy Labine ⁴ ; Sharon Ament ⁵ ; Chee Kuen Yip ⁶ ; Lynn Dierking ⁷ ¹ Technology Development Committee, United Arab Emirates; ² Experimentarium, Denmark; ³ MadaTech - The Israel National Museum of Science, Israel; ⁴ Science North, Canada; ⁵ Natural History Museum, UK; ⁶ Macao Science Center, China; ⁷ Oregon State University, USA		
The Noyce Leadership Fellows program, organized by the Noyce Leadership Institute with the support of ASTC, started in 2008 for a group of 17 Noyce executives from science centers around the world. Up to early 2011, three cohorts comprising more than 50 science center leaders and senior staff attended the training program. A key part of the program is the "strategic initiative" chosen by the participants. The strategic initiative is essential work that an institution undertakes to address current challenges and that serves as a focal point for applying new knowledge and leadership skills. A number of fellows coming from the three cohorts will gather together to share their experience with such a leadership program particularly geared for science center leaders, including their effects with respect to their communities.		

15h05 – 15h45	Refreshment break Posters Exhibition	Khoroni
---------------	--	---------

15h45 – 17h00 CONCURRENT SESSIONS

15h45 - 17h00	1.5a RETHINKING THE SCIENCE CENTRE MODEL	Auditorium 2
Session Convenor: Per-Edvin (Pelle) Persson, Heureka - The Finnish Science Centre, Finland		
Presenters: John Falk ¹ ; Linda Conlon ² ; Alan Brien ³ ¹ Oregon State University, USA; ² Centre for Life, UK; ³ Scitech, Australia		
Science centres tend to think too much inside the box: we study our visitors when they are inside the buildings, we focus on our products in our venues and maintain our buildings. Do we really listen to our stakeholders (visitors and others) and find out what they need? And do we really try to meet those needs in our offerings? New insights from research about visitors and their needs raise questions about the effectiveness of many standard science centre practices.		

15h45 - 17h00	I.5b UNDERSTANDING AND ACCEPTANCE OF EVOLUTION	Meeting Room 1.4a
	Session Convenor: Martin Weiss, New York Hall of Science, USA	
<i>Presenters: Martin Weiss¹; Nelio Bizzo²; Sharon Ament³</i>		
<i>¹New York Hall of Science, USA; ²School of Education, University of Sao Paulo, Brazil; ³Natural History Museum, UK</i>		
All citizens should grasp the unifying role of evolution in 21st century life science, if only to be privy to modern worldviews that form the basis for our cultural heritage. While public understanding and acceptance of evolution is partially determined by cultural factors and religious beliefs, cognitive factors also play a critical role. Studying evolution is an excellent way for students and the public to learn about the process of scientific inquiry. Evolution offers countless and diverse examples of the ways scientists gather and analyze information, and come to a consensus about explanations for natural phenomena. This session will discuss ways of countering impediments to an understanding of evolution; cultural constraints on acceptance of critical thinking and acceptance of evolution.		
15h45 - 17h00	I.5c A CHALLENGE FOR SCIENCE COMMUNICATION: ENGAGING THE UNENGAGED	Meeting Room 1.4b
	Session Convenor: Craig Cormick, Department of Innovation, Australia	
<i>Presenters: Craig Cormick¹; Luisa Massaran²; Rudi Horak³</i>		
<i>¹Department of Innovation, Australia; ²Museu da Vida (Museum of Life), Brazil; ³Sci-Enza, South Africa</i>		
Not everybody is excited by science, and not everybody attends science education events. But everybody has a right to have science education provided in a form that is most relevant to them. This session will discuss research into unengaged members of the community, why they are not interested in science and how science can sometimes be framed in new ways to communicate with them, and will also look at relevant and innovative ways to reach difficult to reach audiences with science communications activities.		
15h45 - 17h00	I.5d INTEGRATING CULTURAL DIFFERENCES IN UNIVERSAL SCIENCE ACTIVITIES	Meeting Room 1.6a
	Session Convenor: Catherine Franche, Ecsite, Belgium	
<i>Presenters: Clare Wilson¹; Hooley McLaughlin²; Hans Gubbels³</i>		
<i>¹Otago Museum, New Zealand; ²Ontario Science Centre, Canada; ³Discovery Center Continium, The Netherlands</i>		
Science is universal which might imply we can develop a global standard on communicating science in museums and science centres. Every country, every region however has its own cultural setting, history, roots. We will explore how cultural practices, differences and norms have, are and can be integrated in the visitor's experience of science exhibitions and activities within centres around the world. Three speakers will share their experience tackling questions like "Do norms make exhibits more impactful, or do they encourage initial participation to achieve the impact of an exhibit or activity?" or "Do science and cultural protocols blend like the finest wine, or do they sit like oil and water?" The first part of the session will trigger imagination and opinions in order to stimulate discussion as to whether cultural protocols make (or not) a difference to the effectiveness of the exhibition messages.		
15h45 - 17h00	I.5e TACKLING HIV/AIDS THROUGH SCIENCE CENTRES	Meeting Room 1.6b
	Session Convenor: Derek Fish, UNIZUL Science Centre, South Africa	
<i>Presenters: Derek Fish¹; Terry Hutter²; Graham Walker³; Barbara Streicher⁴</i>		
<i>¹UNIZUL Science Centre, South Africa; ²CESLA, USA; ³CPAS at ANU, Australia; ⁴ScienceCenter-Netzwerk, Austria</i>		
HIV/AIDS is amongst the greatest human health issues in the world today:- widely declared as a priority for action, which science centres are well placed to take. In line with the Congress's main theme, this session will showcase how science centres can become active participants in the fight against HIV/AIDS, equipping visitors with skills, knowledge and motivation to stay safe. The session will cover different media science centres can utilise (i.e. shows, exhibitions, etc.), issues around evaluation and effectiveness, and the moral and ethical issues when engaging with this controversial topic. Speakers from Austria, Australia, South Africa and the USA will present unique perspectives on how their Centres are tackling the issue in different contexts.		
17h15 – 18h15	I.6 FILM SCREENING: THE ANCIENT ASTRONOMERS OF TIMBUKTU	Auditorium 2
Modern day astronomers explore for the first time the great manuscript archives of Timbuktu. Manuscript owners and conservation experts fight a formidable climate to preserve the papers before this valuable history is buried forever in the sands of the Sahara. This one hour documentary film follows astrophysicist Dr Thebe Medupe and a group of noted international academics as they explore the astronomy contents of the great manuscript archives of Timbuktu. They discover how astronomers centuries ago tracked the positions of the sun, moon and stars to determine direction, tell the time and propose a model of the universe. They reveal the importance of Islam on the history of astronomy and the astronomical knowledge that existed in the Middle East and across North and West Africa to Timbuktu in the Middle Ages. Filmed in High Definition and with French and Arabic sub titles, The Ancient Astronomers of Timbuktu has been broadcast on television networks across North, West and East Africa, Asia, the Middle East, Australia and New Zealand. For more information, please visit www.astronomersoftimbuktu.com		
17h15 – 18h15	NETWORK MEETING: RIO+20 SUMMIT (BY INVITATION)	Meeting Room 1.55
From 18h00	Coach departures to the Evening Excursion	CTICC coach departure area
19h00 – 22h00	EVENING EXCURSION	Two Oceans Aquarium
	MC: Rufus Wesi, Osizweni Education & Development Centre	
	Welcome Address: Patrick Garratt, Two Oceans Aquarium	

COLOUR KEY

 ADMINISTRATION/SOCIAL	 RECOGNISING THE MULTI-CULTURAL ROOTS OF SCIENCE AND TECHNOLOGY
 PLENARY SESSIONS	 THE VALUE OF INDIGENOUS KNOWLEDGE SYSTEMS
 DEMONSTRATIONS/WORLD CAFÉS/FILM SCREENINGS/MEETINGS	 SCIENCE ACROSS CULTURES
 GENERAL INTEREST	 BUILDING COMMUNITIES THROUGH SCIENCE: THE ROLE OF SCIENCE CENTRES

07h00 - 09h00	Registration	Gallery
---------------	--------------	---------

07h00 - 09h00	2 WC THE WORLD CAFÉ SCIENTIFIQUE – CONVERSATION AS A CATALYST FOR CHANGE	Khoroni
---------------	--	---------

Session Convenor: Melanie Kiley, Symphonia, South Africa

Café Hosts: Penny Haworth¹; Vera Adams²; Vanessa Rouhani¹

¹South African Institute for Aquatic Biodiversity (SAIAB), South Africa; ²Rhodes University, South Africa

Table Hosts: To be determined during the session

Introduction to the World Café methodology. Melanie Kiley will introduce delegates to the nuts and bolts of the World Café method and what we intend to cover on Wednesday and Thursday mornings. The theme of the 6th Science Centre World Congress – ‘Science across Cultures’ – encourages reconciliation and respect in an increasingly divided world. This session will provide an opportunity to discuss various forms of effective public engagement with science, the World Café method being one, discover common points of departure and explore the question at the heart of this congress: *What is Culture?*

09h00 - 10h30	2.1 SECOND PLENARY SESSION: WHAT CAN CULTURE DO FOR SCIENCE AND TECHNOLOGY?	Auditorium 2
---------------	---	--------------

Chair: Alejandra León-Castellá, CIENTEC, Costa Rica

Presenters: Lidia Brito¹; Ron Eglash²; Yonah Seleti³

¹UNESCO, France; ²Rensselaer Polytechnic Institute, USA; ³Department of Science and Technology National Indigenous Knowledge System Office (NIKSO), South Africa

This plenary session will include a selection of invited speakers to present on what culture can do for science and technology.

Plenary Address 2: Lidia Brito, *Presentation Title TBC*

Plenary Address 3: Ron Eglash, *Computational models of indigenous design in math, computing, and science education*

Plenary Address 4: Yonah Seleti, *The value of indigenous knowledge*

Discussion

10h30 – 11h10	Refreshment break Posters Exhibition	Khoroni
---------------	--	---------

11h10 - 12h25	CONCURRENT SESSIONS	
---------------	----------------------------	--

11h10 - 12h25	2.2a THE RESEARCH SHOWS.....	Auditorium 2
---------------	------------------------------	--------------

Session Convenor: Lesley Lewis, Ontario Science Centre, Canada

Presenters: Lesley Lewis¹; Per-Edvin (Pelle) Persson²; Sabine Lehmann³; Brigitte Coutant⁴

¹Ontario Science Centre, Canada; ²Heureka - The Finnish Science Centre, Finland; ³Table Mountain Aerial Cableway, South Africa; ⁴Universcience, France

Science centres around the world undertake a variety of research initiatives. While research on science centre impact is often discussed at conferences, we rarely discuss and compare our “market research”. Such studies can be qualitative and/or quantitative and use a variety of methodologies addressing topics including visitor satisfaction, motivations to visit, demographics and branding. Research comparisons to other cultural attractions can contribute to a better understanding of visitor perception. In this session, speakers from Finland, Mexico, South Africa, France and Canada will review the approach of their organizations to market research, outline some of their most significant findings and explain how market research can contribute to a significantly improved visitor experience.

11h10 - 12h25	2.2b OPPORTUNITIES CREATED BY ACKNOWLEDGING THE MULTI-CULTURAL ROOTS OF SCIENCE	Meeting Room 1.4a
---------------	---	-------------------

Session Convenor: Mike Bruton, MTE Studios, South Africa

Presenters: Ludo Verheyen¹; Ron Eglash²; Yonah Seleti³; Mike Bruton⁴

¹MTE Studios, Dubai; ²Rensselaer Polytechnic Institute, USA; ³Department of Science and Technology National Indigenous Knowledge System Office (NIKSO), South Africa; ⁴MTE Studios, South Africa

Western civilisation tends to take the credit for most modern science, and the Industrial Revolution in Western Europe (1760-1850) is regarded by many to have been the most important incubator of modern technological innovation. In fact, science and technology have longer, much more interesting, multi-cultural roots. There have been many scientific and technological revolutions, going back millennia in societies in Asia, the Middle East, Africa, Oceania, the Americas and Europe. We examine the role that science centres can and should play in acknowledging and exploring the multi-cultural roots of science and technology, and address the challenges and opportunities that this endeavour has presented to the non-formal science education sector. We demonstrate that a true appreciation of the multi-cultural roots of science and technology has a strong potential to add interest, context and improved understanding to science awareness programmes across all cultures

11h10 - 12h25	2.2c IT'S THE INTERNATIONAL YEAR OF "X"... SO WHAT DO WE DO?	Meeting Room 1.4b
<p>Session Convenor: Michael Harvey, Australian Museum, Australia</p> <p><i>Presenters: Robert Bloomfield¹; Mikko Myllykoski²; Pedro Russo³</i> <i>¹The Natural History Museum, UK; ²Heureka - The Finnish Science Centre, Finland; ³Universe Awareness, Germany</i></p> <p>Darwin Year and International Year of Astronomy in 2009, International Year of Biodiversity in 2010, International Year of Chemistry this year, and Earth Summit year in 2012. Great opportunities for museums and science centres to connect with new partners, and to become part of a global push for understanding in some of the big themes of science. In such a year museums and science centres can explore a theme from many different angles (with a whole year to play with, a varied program is a must). In this session, presenters who have led or coordinated efforts across the last three years, and who are planning future programs, discuss how to get the most from an "International Year of X"</p>		
11h10 - 12h25	2.2d THE INITIATION OF SCIENCE CENTERS IN THE NAMES REGION	Meeting Room 1.6a
<p>Session Convenor: Mijbil Almutawa, The Scientific Center, Kuwait</p> <p><i>Presenters: Mijbil Almutawa¹; Serif Kaynar²; Maissa Azab³; Ayman El Sayed³</i> <i>¹The Scientific Center, Kuwait; ²Turkey Science Centers Foundation, Turkey; ³Planetarium Science Center (PSC), Egypt</i></p> <p>The role of science centers within our communities has become vital in providing knowledge, which we urgently need in our region to regain our status as producers, rather than consumers, of science and technology, in an innovative and attractive way. In the NAMES region, more and more individuals are starting to recognize how science centers contribute to setting up knowledge-based communities and are looking forward to the initiation of science centers to help foster the desire to learn within future generations. The initiation of science centers requires local, regional and international collaboration, so in essence it involves a wide range of people willing to work together and share their experiences in order to establish a cohesive entity worthy of providing science and knowledge in its best form to the community. There are many aspects involved in setting up a science center; and through this panel discussion we will focus attention on the more important aspects involved; namely fund-raising, fabrication of exhibits, staffing and training, international collaborations, and raising public awareness of the importance of these science centers. Each founding member of the NAMES network will share a different aspect of their organizations' experiences, thus showing the involvement of their different communities, and providing a comprehensive but diversified picture of the effort involved in initiating a science center.</p>		
11h10 - 12h25	2.2e INTERNATIONAL COLLABORATIONS - WHAT DOES IT TAKE TO BUILD SUSTAINABLE COLLATERAL?	Meeting Room 1.6b
<p>Session Convenor: Beverley Damonse, South African Agency for Science and Technology Advancement (SAASTA), South Africa</p> <p><i>Presenters: Jennifer Correa¹; Susan Stockmayer²; Maritza Macdonald³; Beverley Damonse⁴</i> <i>¹New York Hall of Science, USA; ²Australian National University, Australia; ³AMNH, USA; ⁴South African Agency for Science and Technology Advancement (SAASTA), South Africa</i></p> <p>Collaborative relationships across the science and education systems can arise out of either individual commitments, organisational projects or programmes or even country to country agreements. There are several critical issues that need attention in these collaborative relationships and amongst these are issues such as cultural and organisational adaptations: open communication and a willingness to question implicit assumptions; leadership development within the collaboration and building capacity for sustainability. This session will use the international collaborative relationships established at individual, organisational and country to country levels between the South African Agency for Science and Technology Advancement (SAASTA) and international partners to explore the issue of building sustainable collateral.</p>		
12h25 - 13h50	Lunch Posters Exhibition Demonstration	Khoroni
12h45 - 13h05	2.3 DEMONSTRATION: SCIENCE GRAFFITI - STREET-TOUGH SCIENCE FOR INTERCULTURAL LEARNING	Khoroni
<p><i>Demonstrators: Jeanette Mueller¹; Barbara Streicher²</i> <i>¹Trustroom, Austria; ²ScienceCenter-Netzwerk, Austria</i></p> <p>SCIENCE GRAFFITI allows us a low-threshold and quite "street-tough" communication of scientific content at public space, schools, prisons, museums, festivals and congresses. It works like an empowerment for diverse participants to use their curiosity, knowledge, expertise and everyday-experience to discover different subjects and links to their personal life and cultures for a deeper understanding and interest for science. Creativity, hands-on cooperation and fun are the ingredients of SCIENCE GRAFFITI to create a collective artwork and to learn from each other and together. Let's create and paint a Science Graffiti for the 6SCWC!!</p>		

13h50 - 15h05		CONCURRENT SESSIONS
13h50 - 15h05	2.4a FROM THE MILLENNIUM DEVELOPMENT GOALS (MDG) TO THE TORONTO DECLARATION: WHICH CONTRIBUTION OF SCIENCE CENTRES FOR GLOBAL CHALLENGES (PART I)	Auditorium 2
	Session Convenor: Lesley Lewis, Past Chair, 5SCWC	
<i>Presenters: Anthony (Bud) Rock¹; Brenton Honeyman²; Alejandra León-Castelló³; Mijbil Almutawa⁴</i>		
<i>¹ASTC, USA; ²ASPAC, Australia; ³Red-POP, Costa Rica; ⁴NAMES, Kuwait</i>		
<p>In June 2008 during the Fifth SCWC, 400 delegates from 51 countries endorsed the Toronto Declaration to enhance their role in the society today, also in response to the MDGs priorities. Since that time many science centres have engaged in actions, individually at the local level as well as collectively at the regional level. In September 2010, during the UN Summit in New York, leaders of sciences centres and museums worldwide called on the delegates to recognise the valuable role that informal science education platforms can play in the education of youth and adults concerning global challenges. The session proposes to discuss among the different representatives of regional networks ways for our community to pursue the commitments of the Toronto Declaration and/or support the MDGs. Representatives of each network will state their approaches to contribute to the MDGs with related experiences from science centres and networks, as well as enouncing actions and steps for the future.</p>		
13h50 - 15h05	2.4b CREATING AWARENESS ON THE VALUE OF TRADITIONAL KNOWLEDGE DIGITAL LIBRARY (TKDL) IN FIGHTING UNDUE CLAIMS OF PATENTS	Meeting Room 1.4a
	Session Convenor: Subhabrata Chaudhuri, National Council of Science Museums Central Research and Training Laboratory, India	
<i>Presenters: Yonah Seleti¹; Palaniappillai Iyemperumal²; Subhabrata Chaudhuri³; Victoria Coats⁴</i>		
<i>¹National Indigenous Knowledge System Office (NIKSO), Department of Science and Technology, South Africa; ²Tamilnadu Science & Technology Centre, India; ³National Council of Science Museums Central Research and Training Laboratory, India; ⁴Oregon Museum of Science and Industry, USA</i>		
<p>Scientists, until recently, used to reject the traditional knowledge of indigenous peoples. Being an easily accessible treasure, it has always been susceptible to misappropriation worldwide. Its scientific importance is now recognized and valued by the scientists.</p> <p>Science Centres can play a responsible role in safeguarding these treasures through diverse activities. There are instances where a traditional knowledge system is the central theme of science centre galleries. Conducting elaborate in-situ research to learn and identify the process of indigenous scientific practices on prospective zones may enrich the society immensely. It will also be of relevance if a proper public awareness forum is constituted within and outside the science centres globally. The session is expected to bring out the role of science centres and other like-minded institutions in exploring country-specific indigenous knowledge systems and creating mechanisms for awareness.</p>		
13h50 - 15h05	2.4c BREAKING INTO A NEW MARKET: DEVELOPING A GLOBAL SCIENCE CENTRE CULTURE	Meeting Room 1.4b
	Session Convenor: Thandi O'Hagan, Sci-Bono Discovery Centre, South Africa	
<i>Presenters: Thandi O'Hagan¹; Robert Firmhofer²; Speaker TBC</i>		
<i>¹Sci-Bono Discovery Centre, South Africa; ²Copernicus Science Centre, Poland</i>		
<p>Globally, science centres aim to foster science literacy and increase public engagement with science. Centres in developing countries often encounter the challenge of introducing to a new audience an understanding of what science centres are and what can be gained by visiting them. Representatives will explore a variety of tactics each of our centres have employed in an attempt to break into a new and diverse target market. The session will conclude with a participatory brainstorming session exploring how science centres across the world are building a science centre culture within their cities.</p>		
13h50 - 15h05	2.4d SCIENCE GARDENS TO DEMOCRATIZE SCIENCE	Meeting Room 1.6a
	Session Convenor: Ronen Mir, MadaTech - The Israel National Museum of Science, Israel	
<i>Presenters: Julia Tagüeña¹; Ganga Rautela²; Mikko Myllykoski³; Antonio Pavao⁴; Moshe Rishpon⁵</i>		
<i>¹Universidad Nacional Autónoma de México, Mexico; ²National Council of Science Museums, India; ³Heureka - The Finnish Science Centre, Finland; ⁴Espaço Ciência - The Science Museum of Pernambuco, Brazil; ⁵Clore Garden of Science, Israel</i>		
<p>This session presents Science Garden projects from around the world: Brazil, Finland, India, Israel and Mexico. These Outdoor Science Parks focus on exhibits related to Energy, Motion, Water, Wind and Environmental Education. Science communication models that make Science Parks contribute to the scientific culture of our surrounding community are also presented. Most science museums tend to be indoors. Yet today there are more Science Parks designed for open spaces around the world. These Science Parks serve as a democratic tool for general public, where science is approached in a very relaxed and free atmosphere. Our evaluation demonstrates that students and young visitors learn and have a good time experimenting and experiencing science in the Outdoors.</p>		
13h50 - 15h05	2.4e NETWORKING INSTEAD OF CENTRE-ING: MORE DIVERSE, BROADER REACH, CHEAPER	Meeting Room 1.6b
	Session Convenor: Barbara Streicher, ScienceCenter-Netzwerk, Austria	
<i>Presenters: Barbara Streicher¹; Francisco Julián Betancourt Mellizo²; Owain Davies³; James Bell⁴</i>		
<i>¹ScienceCenter-Netzwerk, Austria; ²Universidad Nacional de Colombia Museo de la Ciencia y el Juego, Colombia and LiliputNet; ³Techniquet, UK; ⁴Center for the Advancement of Informal Science Education (CAISE), USA</i>		
<p>Many regions in the world still lack permanent science centres as important places of informal science education. Science centre activities do not rely on permanent physical spaces, many outreach activities have been successfully developed and implemented. Within this session, four complementary approaches from three continents will illustrate how networks of science centre actors can improve quality and quantity of activities. The structure of ScienceCenter-Netzwerk Austria mirrors the creativity and innovation that science centre activities themselves try to achieve. LiliputNet in Columbia supports the start of new small science centers. Techniquet in Cardiff, UK, links up with teachers offering a large scale outreach for schools. The US-based Center-for-Advancement-of-Informal-Science-Education connects, convenes and supports the field of informal science education sectors</p>		

15h05 – 15h45	Refreshment break Posters Exhibition	Khoroni
15h15 - 15h35	2.5 DEMONSTRATION:TEACHING MAGNETISM IN EXPERIMENTAL FORM	Khoroni
<p><i>Demonstrator: Jose Triano UNER-PUERTO CIENCIA, Argentina</i></p> <p>Surely sometimes we have played with magnets in the form of toy magnets of balance or adhered to our refrigerator. But, we have wondered ourselves why they stick or no. Although magnetism is a phenomenon that is present in our surroundings, its nature and daily use in diverse apparatuses, to face its education and understanding is, often, a task non-trivial and little intuitive. We consider it important to contribute to the improvement of education and to obtain that the scientific work, can be transferred, accompanying the formation by the students and to foment the learning from the active participation, through the observation and experimentation, helping to include/understand and to interpret the surroundings, its elements and interactions..</p>		

15h45 - 17h00	CONCURRENT SESSIONS	
15h45 - 17h00	2.6a FROM THE MILLENNIUM DEVELOPMENT GOALS (MDG) TO THE TORONTO DECLARATION:WHICH CONTRIBUTION OF SCIENCE CENTRES FOR GLOBAL CHALLENGES (PART 2)	Auditorium 2
<p>Session Convenor: Vincenzo Lipardi, Fondazione Idis-Città della Scienza, Italy</p> <p><i>Presenters: Hans Gubbels¹; Julie Cleverdon²; Xu Yanhao³; Ganga Rautela⁴ ¹Ecsite, The Netherlands; ²SAASTEC, South Africa; ³ASPAC, China; ⁴DCSM, India</i></p> <p>In June 2008 during the Fifth SCWC, 400 delegates from 51 countries endorsed the Toronto Declaration to enhance their role in the society today, also in response to the MDGs priorities. Since that time many science centres have engaged in actions, individually at the local level as well as collectively at the regional level. In September 2010, during the UN Summit in New York, leaders of sciences centres and museums worldwide called on the delegates to recognise the valuable role that informal science education platforms can play in the education of youth and adults concerning global challenges. The session proposes to discuss among the different representatives of regional networks ways for our community to pursue the commitments of the Toronto Declaration and/or support the MDGs. Representatives of each network will state their approaches to contribute to the MDGs with related experiences from science centres and networks, as well as enouncing actions and steps for the future.</p>		

15h45 - 17h00	2.6b WHAT ARE SCIENTISTS TRYING TO TELL ME AND SHOULD I CARE?: INVOLVING YOUTH AND FAMILIES IN SCIENCE COMMUNICATION	Meeting Room 1.4a
<p>Session Convenor: Helga Nordhoff, University of Pretoria, South Africa</p> <p><i>Presenters: Helga Nordhoff¹; Susan Stockmayer²; Julia Tagüeña³; Lynn Dierking⁴ ¹University of Pretoria, South Africa; ²Australian National University, Australia; ³Universidad Nacional Autónoma de México, Mexico; ⁴Oregon State University, USA</i></p> <p>"Science Communication" is generally understood as a process by which scientists share what they know with the public, often non-scientists. However, why should the public, particularly youth who want to actively engage, care? Are there programmes aimed at older youth that support them in learning to be effective "science communicators?" In this session the panel will share the activities of different programmes aimed to help youth discover their scientific interests, act as teachers and facilitators of science and technology in their community and improve family interactions with older youth interested in science. Can trained young adults be effective science communicators helping community members understand issues such as energy, pollution, water supply, global warming, biodiversity? Can they motivate talented children?</p>		

15h45 - 17h00	2.6c SCIENCE AND RELIGION:A HISTORICAL, CURRENT, AND FUTURE PERSPECTIVE	Meeting Room 1.4b
<p>Session Convenor: George Ellis, University of Cape Town, South Africa</p> <p><i>Presenters: Dennis Bartels¹; Mijbil Almutawa²; George Ellis³ ¹Exploratorium, USA; ²The Scientific Center, Kuwait; ³University of Cape Town, South Africa</i></p> <p>Science centres need to consider how to handle issues regarding the relation of science and religion. Will they say anything on the topic at all? If they do, what stand will they take? It would be inappropriate for a science centre to take a specific religious stand, but more broadly it may be suggested that they should take no stand at all on religious issues, precisely because science is agnostic about them. However questions will be likely to arise inter alia about evolution, "Intelligent Design", the origin of the universe, and the existence of free will and a soul. Directors need to consider how to approach these issues in a multicultural and multi-faith context. They may have to handle problems arising because of aggressive atheistic statements by some scientists.</p>		

15h45 - 17h00	2.6d STRENGTHENING OUTREACH:THE POWER OF PEOPLE, PEERS, AND PARTNERSHIPS	Meeting Room 1.6a
<p>Session Convenor: Tengku Nasariah Ibrahim, Petrosains, Malaysia</p> <p><i>Presenters: Noel Jackson¹; Alan Brien²; Tengku Nasariah Ibrahim³; Mbulaheni Fannie Matumba⁴ ¹Centre for Life, UK; ²Scitech, Australia; ³Petrosains, Malaysia; ⁴Sci-Bono Discovery Centre, South Africa</i></p> <p>Outreach efforts extend a Science Centre's commitment to serve communities and groups beyond its vicinity, often impactful, yet challenging. This session outlines four approaches towards successful outreach initiatives; getting the right person for the job; using staff exchange programs for capability development; strategic partnerships with other organisations; and developing scientific capacity of communities through unique, interactive ways linked to the formal syllabus. These approaches have enriched the Outreach initiatives of the respective Science Centres and the presenters will provide a practical framework for emulation and discussion. Powerful Outreach initiatives that leverages on its people, peers, and partnerships will not just survive but thrive and potentially contribute significantly to the mission success of Science Centres the world over.</p>		

15h45 - 17h00	2.6e WHAT IS THE RESPONSIBILITY OF THE SCIENCE CENTER OF THE FUTURE?	Meeting Room 1.6b
Session Convenor: Robert West, Informal Learning Experiences, Inc, USA		
Presenters: Luisa Massarani ¹ ; David Kramer ² ; Derek Fish ³ <i>¹Museu da Vida (Museum of Life), Brazil; ²Sci-Bono Discovery Centre, South Africa; ³UNIZUL Science Centre, South Africa</i>		
The science center of the future, regardless of its location/culture, budget, history, or mission, must confront the multiple realities of the 21st Century. This session will, in varying contexts, ask very provocative questions. How do science centers present current issues and controversies? How do science centers effectively engage different audiences? How do science centers respect and reflect their national identities? What are the differences between centers in developing and developed countries? What responsibilities do science centers in developed countries have for their colleagues in the developing world? How do science centers remain independent when confronted with pressures from governments and funders? Presenters will discuss their personal and institutional intersections with these and other important issues for the future science center.		
17h15 – 18h15	2.7 FILM SCREENING: COSMIC AFRICA	Auditorium 2
Not long ago, Africa was a land without borders and fences. The earth, water and sky were its natural boundaries. There was power in the sky, a time when ancient sky-watchers looked to the heavens for the meaning, guidance and inspiration. Out of these observations came rich legends and sacred ceremonies. In many parts of Africa today, the sacred alliance between earth and sky is still replayed in time-honoured ceremonies, that were handed from generation to generation. At the age of 13, Thebe Medupe built his first telescope in his remote African village. Today, as a qualified astronomer, Thebe hopes to reunite the origins of celestial knowledge with modern astronomy. While technology has increased our knowledge of the 'heavens', it has also distanced us from the cosmos and its influence on our daily lives. In Cosmic Africa we join Thebe on his celestial quest into the heart of the Egyptian Sahara; the precipitous cliffs of Dogon country in Mali; and the ancestral land of Namibia's hunter-gatherers, the Ju'haansi. His experiential journey weaves together past, present and future, combining astronomical perception and history in a rich cosmic tapestry. By exploring the various stages of human awareness and development, Cosmic Africa takes viewers into the world of shamans, sky lore experts and diviners, where spiritual and practical knowledge is intertwined. Visit www.senseafrica.com for more information.		
From 18h00	Coach departures to the Evening Excursion	CTICC coach departure area
19h00 – 22h00	EVENING EXCURSION	Iziko South African Museum
MC: Derek Fish, UNIZUL Science Centre Welcome Address: Rooksana Omar, Iziko Museums		

COLOUR KEY

 ADMINISTRATION/SOCIAL	 RECOGNISING THE MULTI-CULTURAL ROOTS OF SCIENCE AND TECHNOLOGY
 PLENARY SESSIONS	 THE VALUE OF INDIGENOUS KNOWLEDGE SYSTEMS
 DEMONSTRATIONS/WORLD CAFÉS/FILM SCREENINGS/MEETINGS	 SCIENCE ACROSS CULTURES
 GENERAL INTEREST	 BUILDING COMMUNITIES THROUGH SCIENCE: THE ROLE OF SCIENCE CENTRES

07h00 - 09h00	Registration	Gallery
---------------	--------------	---------

07h00 - 09h00	3 WC THE WORLD CAFÉ SCIENTIFIQUE – CONVERSATION AS A CATALYST FOR CHANGE	Khoroni
---------------	--	---------

Session Convenor: Melanie Kiley, Symphonia, South Africa

Café Hosts: Penny Haworth¹; Vera Adams²; Vanessa Rouhani¹

¹South African Institute for Aquatic Biodiversity (SAIAB), South Africa; ²Rhodes University, South Africa

Table Hosts: To be determined during the session

Transcending Regional Boundaries. Drawing on their collective expertise, delegates can use this session as a platform to meet and through the conversation process share insights and experiences with delegates from various countries. The question to be explored: How can science centres use their collective expertise and experience to expand the science centre network worldwide, and especially in the host continent?

09h00 - 10h30	3.1 THIRD PLENARY SESSION: MEGATRENDS AND THE NEED FOR RESILIENCE	Auditorium 2
---------------	---	--------------

Session Convenor: Erik Jacquemyn, Technopolis® - the Flemish Science Center, Belgium

Presenters: Maciej Soltynski¹; Michael John Gorman²; Christina Scott³; Graham Durant⁴; Bryce Seidl⁵; Clive Barrows⁶; Mamoru Mohri⁷; Linda Conlon⁸

¹Trends, South Africa; ²Science Gallery, Ireland; ³South African Science Journalists Association, South Africa; ⁴Questacon, Australia;

⁵Pacific Science Center, USA; ⁶Education Coalition of South Africa (EDCOSA), South Africa; ⁷Miraikan, Japan; ⁸Centre for Life, UK

Modern day science centers constantly need to anticipate and respond to new trends in order to accomplish their mission and sometimes simply to survive. After a brief introduction two speakers from outside of the science center field will present their ideas on future trends such as social media, the sharp rise in the ageing population, etc. These ideas will afterwards be placed in a science center context and discussed by an international panel of experts from within the science center field. Examples of trends are: diverging demographics and aging population; social media; the increased accessibility to information and on-line experiences; increased competition for the hands-on brand from retail establishments, restaurants etc.; increased competition from numerous leisure attractions.

Speakers: Maciej Soltynski; Michael John Gorman

Panel Discussion

Moderator: Christina Scott

Panelists: Graham Durant; Bryce Seidl; Clive Barrows; Mamoru Mohri, Linda Conlon

10h30 – 11h10	Refreshment break Posters Exhibition	Khoroni
---------------	--	---------

11h10 - 12h25	CONCURRENT SESSIONS	
---------------	----------------------------	--

11h10 - 12h25	3.2a DEALING WITH CONTENTIOUS TOPICS	Auditorium 2
	Session Convenor: Catherine Franche, Ecsite, Belgium	

Presenters: Sharon Ament¹; Craig Cormick²; Michel Groulx³; Rob Adam⁴

¹Natural History Museum, UK; ²Department of Innovation, Australia; ³Centre des sciences de Montréal, Canada; ⁴NECSA, South Africa

Every science centre should position itself in the political arena and face the dilemma as to whether or not it should engage in debates and propose contentious subjects to its audiences, particularly today when authority is under question, shared values are less apparent and debates occur daily. Genetic engineering and stem cell research, AIDS, sexuality and evolution nuclear power: Attitudes and responses to these subjects depend on the collective and individual cultures of the audiences. Yet many studies demonstrate that the public wants science centres and museums to engage in controversial topics by presenting different points of view, and by giving visitors the opportunity to reach their own conclusions. What added value will a science centre bring to a sensitive topic in comparison with other public media? How can science centres accommodate the views of their different stakeholders in their planning processes? From providing information and facts, up to advocating a stance: In which zones can science centres play and how? Don't they risk losing some of their adult audiences? This session will discuss the strategic value and risks of presenting exhibitions and developing activities about sensitive and controversial topics.

11h10 - 12h25	3.2b INFORMING AND ENGAGING CITIZENS ON CLIMATE CHANGE ISSUES	Meeting Room 1.4a
	Session Convenor: Luigi Amodio, Fondazione Idis-Città della Scienza, Italy	

Presenters: Luigi Amodio¹; Walter Staveloz²; Joaquin Fargas³

¹Fondazione Idis-Città della Scienza, Italy; ²ASTC, USA; ³Centro Científico Tecnológico Exploratorio, Argentina

Climate change is a growing concern for the public today. In recent years, people have received a great deal of information from media on causes and consequences of climate changes, but depending on countries and world regions the understanding and engagement in these topics is still varied. Communication professionals are making efforts to communicate the messages correctly. This panel session proposes to contribute to a global effort to develop new tools and actions on climate change from an "informative" to a more "active" attitude, through the exchange and dissemination of practices that involve citizens in actions and dialogue.

11h10 - 12h25	3.2c INTERACTION OF SCIENCE AND CULTURE IN SCIENCE CENTRES AND MUSEUMS	Meeting Room 1.4b
Session Convenor: Shimrath Paul, Otago Museum Discovery World, New Zealand		
Presenters: Ganga Rautela ¹ ; Michael John Gorman ² ; Goery Delacote ³ ¹ National Council of Science Museums, India; ² Science Gallery, Ireland; ³ At Bristol, UK		
In developing a scientifically literate community, how much attention should be paid to culture? We will explore the following stimulating Forum Discussion. 1-What is and has been the influence of culture onto science 2-What is and has been the influence of science onto culture? (World perspectives) 3-If Human experience and emotions are integral to the visitor relationship, how do we design our centres and our programs to take these into consideration? Will a focus on emotion change the way we communicate science? 4-How much should we illustrate through exhibits or activities or demonstrations the scientific prowess of past or traditional cultures in our centres? 5-How do we use historical perspectives to address these questions? Do they matter or is the future a new model altogether?		
11h10 - 12h25	3.2d AGENCY, IDENTITY AND CAREER ASPIRATIONS: OUTCOMES OF ENTRY-LEVEL SCIENCE CENTRE WORK	Meeting Room 1.6a
Session Convenor: Andrea Motto, Virginia Tech University, USA		
Presenters: Andrea Motto ¹ ; Rufus Wesi ² ; Catherine Price ³ ; Luz Lindegaard ⁴ ¹ Virginia Tech University, USA; ² Osizweni Education & Development Centre, South Africa; ³ Thinktank Trust, UK; ⁴ Mirador Interactive Museum(MIM), Chile		
They are known by different names- explainers, guides, facilitators- but to visitors, they are the face of the institution and the voice of science. Where do staff come from, where do they want to go, how do they define their roles (educators? communicators? scientists?) Do their perceptions align with the expectations of visitors? What are some implications for the field? We frame staff as an important, but sometimes overlooked, part of our audience. Presenters will share ways that front-line science center staff come to know science and themselves in new ways. We will discuss how the everyday practice of science center work has influenced the career choices of current and former staff, and discuss some mechanisms for transformative workplace learning.		
11h10 - 12h25	3.2e NOT JUST FOR KIDS: HOW CHILDREN'S MUSEUMS PROMOTE INTERCULTURAL UNDERSTANDING	Meeting Room 1.6b
Session Convenor: Joerg Ehtreiber, FRida & freD - The Graz Children's Museum, Austria		
Presenters: Lynn McMaster ¹ ; Amparo Leyman Pino ² ; Derek Fish ³ ; Joerg Ehtreiber ⁴ ¹ Children's Museum, Canadian Museum of Civilization, Canada; ² Papalote Museo del Niño, Mexico; ³ UNIZUL Science Centre, South Africa; ⁴ FRida & freD - The Graz Children's Museum, Austria;		
Can children's museums promote intercultural understanding and soft skills that are essential in a global and knowledge-based economy? What are the outcomes of programming and exhibitions aimed at young children that particularly emphasise multiculturalism? Can conventional and larger science museums learn from approaches often undertaken with younger audiences in mind? Children's museums have tended to emphasise co-operation and togetherness. Seen in this light, they are powerful instruments for promoting teamwork, respect for others as well as a foundation for scientific literacy. This session examines the role of children's museums in fostering intercultural understanding and in doing so, prompting a deeper understanding and appreciation for world cultures in young visitors.		
12h25 - 13h50	Lunch Posters Exhibition Demonstration	Khoroni
12h45 - 13h05	3.3 DEMONSTRATION: WOW, I DIDN'T EXPECT THAT TO HAPPEN!	Khoroni
Demonstrators: Catherine Fudurich ¹ ; Linda Organ ¹ ; Derek Fish ² ¹ The Discovery Center of Science and Technology, USA; ² UNIZUL Science Centre, South Africa		
A discrepant event is something that surprises, startles, puzzles, or astonishes the observer. Often, a discrepant event is one that does not appear to follow basic rules of nature and challenges a learner's preconceptions. The observer is engaged with a wanting to know feeling. Discrepant scientific events present students with surprising facts about familiar topics. Discrepant events inspire curiosity, intrinsic motivation and critical thinking. This demonstration session is useful for science centers of all sizes and budgets. Presenters will share inexpensive, easy to replicate, useful-tomorrow ideas (also great for parties). Join us for a fun, high energy, organized, meaningful use of lunch time break. Come, get discrepant, you'll be happy that you did.		

13h50 - 15h05		CONCURRENT SESSIONS
13h50 - 15h05	3.4a TOWARDS RIO+20, A GREEN AND SOCIAL CROSS CULTURE TRAVELLING EXHIBITION	Auditorium 2
Session Convenor: Joaquin Fargas, Centro Cientifico Tecnologico Exploratorio, Argentina		
Presenters: Lidia Brito ¹ ; Walter Staveloz ² ; Derek Fish ³ ; Andrew Giger ⁴ ; Mijbil Almutawa ⁵		
¹ UNESCO, France; ² ASTC, USA; ³ UNIZUL Science Centre, South Africa; ⁴ Science Centre Singapore, Singapore; ⁵ The Scientific Center, Kuwait		
<p>The Earth Summit 2012, called Rio+20 would be the last change the world has to tackle the big issues regarding sustainability. We from the science centers field have a strong responsibility on disseminating the message of what science, technology and specifically everyone of us can do, as we are not just part of the problem, but we are also part of the solution. The green and social cross cultured traveling exhibition will be a great opportunity to bring communities closer through science, technology and the environment. During the workshop we will discuss the progress of the development and design of a multicultural exhibition that will show what science centers can do for the awareness on issues like climate change, overpopulation, green economy, etc. The development and design will start during the Red Pop conference, that will be held in San Pablo, Brasil by the end of May 2011 and continue all year round. The objective is to finish part of the exhibition that will be installed in Rio de Janeiro for the Earth Summit in 2012. The workshop, "Towards Rio+20, a green and social cross cultured traveling exhibition" will encourage people from different continents to share ideas and join the project.</p>		
13h50 - 15h05	3.4b CULTURAL PRACTICES TOOLS - EFFECTIVE MODES OF SCIENCE COMMUNICATION!	Meeting Room 1.4a
Session Convenor: Kozimuttam Kumar, National Council of Science Museums, India		
Presenters: Subhabrata Chaudhuri ¹ ; Maria Ines Nogueira ² ; Wayne LaBar ³ ; Luigi Amodio ⁴		
¹ National Council of Science Museums Central Research and Training Laboratory, India; ² Estacao Ciencia da Universidade de Sao Paulo, Brazil; ³ Liberty Science Center, USA; ⁴ Fondazione Idis-Città della Scienza, Italy		
<p>Science centres use exhibits and demonstrations to communicate science to visitors. Since the visitor demography varies in each science centre depending upon the location, socio-economic background, language and level of formal education etc. It is therefore, necessary for the Science Centres to incorporate these considerations while designing their exhibits and demonstrations. Using theatre, science circus, mobile science exhibitions, local cultural art forms like dance, drama, poetry, etc can become effective tools of communication. Can the Science Centres use these formats to bridge culture and science to build audiences and reduce the communication divide? This session will showcase successful practices in diverse forms of communication that are in practice and that have helped to widen the reach of the science centres in order to remain relevant and inclusive.</p>		
13h50 - 15h05	3.4c SPORT AND SCIENCE EXIST IN TWO DIFFERENT WORLDS... OR DO THEY?	Meeting Room 1.4b
Session Convenor: Michael Peter, Sci-Bono Discovery Centre, South Africa		
Presenters: Ronen Mir ¹ ; Alan Brien ² ; Michael Peter ³		
¹ MadaTech - The Israel National Museum of Science, Israel; ² Scitech, Australia; ³ Sci-Bono Discovery Centre		
<p>Science centres are constantly challenged to find new and innovative ways to teach science through interactive exhibitions. What then could be more interactive than sport? The need to develop exhibitions that have marketing potential, science engagement potential, community relevance and impact all play a part in shaping what we choose to do. This session will focus on the work of three science centres: Scitech, in Perth, Australia; MadaTech, in Haifa, Israel; and Sci-Bono Discovery Centre, in Johannesburg, South Africa. Each of these centres has produced unique science of sport exhibitions – and all three presentations will demonstrate how each science centre has developed and adapted creative and innovative processes to achieve public engagement, business outcomes and science centre relevance.</p>		
13h50 - 15h05	3.4d SCIENCE CENTRES AND POLICY MAKING	Meeting Room 1.6a
Session Convenor: Graham Durant, Questacon, Australia		
Presenters: Karen Bultitude ¹ ; Un Woo Lee ² ; Anthony (Bud) Rock ³ ; Graham Durant ⁴ ; Phyllis Lam ⁵		
¹ University of the West England, UK; ² National Science Museum, Republic of Korea; ³ ASTC, USA; ⁴ Questacon, Australia; ⁵ National Science Centre, Malaysia		
<p>Science centres exist as part of a broader landscape of national or regional science communication activities and have to compete for funds within that broader landscape. Science communication in general also has to compete for funds with investments in a national science base and education system. National policies for science communication are emerging in various countries in recognition for the societal need for community engagement in science. Understanding these policies is essential to the positioning of science centres and in the demonstration of their value to funding bodies. Approaches to the development of national policies in several countries will be examined and the opportunities and challenges for the science centre sector will be discussed.</p>		
13h50 - 15h05	3.4e TEENS: A CULTURE ALL THEIR OWN	Meeting Room 1.6b
Session Convenor: Erik Jacquemyn, Technopolis® - the Flemish Science Center, Belgium		
Presenters: Erik Jacquemyn ¹ ; Bafedile Kgwadi ² ; Nils Olander ³ ; Rob van Hattum ⁴		
¹ Technopolis® - the Flemish Science Center, Belgium; ² South African Agency for Science and Technology Advancement (SAASTA), South Africa; ³ The Swedish National Museum of Science and Technology, Sweden; ⁴ NEMO, The Netherlands		
<p>This session will present a strategic approach to working with teens as a cultural sub-group in our science centres. While this age group is often a target audience for our science centres, too often it is easier to create separate programs rather than include them in the mainstream of our centres. It takes everyone from the executive and board level to the staff on the front line to expand our comfort zone and to fully engage. The panellists will begin this session by presenting relevant research with a core set of models, strategies, universalities across cultures, and lessons learned - and then offer an opportunity for participants to explore ways we can more fully engage this important audience in our centres.</p>		

15h05 – 15h45	Refreshment break Posters Exhibition	Khoroni
15h15 - 15h35	3.5 DEMONSTRATION: EXPERIMENTING WITH ATTRACTIVE OBJECTS	Khoroni
<p><i>Demonstrator: Jose Triano</i> <i>UNER-PUERTO CIENCIA, Argentina</i></p> <p>Many forms of energy are present in our life, and with some of the following experiences we can only see. It energetically rubs a plastic spoon in the sweater and acércala to a small water spurt. You will see that it is attracted by the spoon and it tends to move towards her. It proves another experiment: it rubs with the finger a tape piece of the Teflon (used to seal pipes) and will see that one irresistibly sticks to its finger and any object that you approach him. What happens between these two bodies. Because they stick. The children and adolescents, who not always learn sciences, due to the deficiency of the equipment in the schools, have the possibility of undergoing these phenomena and of being educated.</p>		

15h45 - 17h00 CONCURRENT SESSIONS

15h45 - 17h00	3.6a IS THE SCIENCE CENTRE MOVEMENT COLONIALIST?	Auditorium 2
<p>Session Convenor: Hooley McLaughlin, Ontario Science Centre, Canada</p> <p><i>Presenters: Mike Bruton¹; Mikko Myllykoski²; Ganga Rautela³; Orna Cohen⁴</i> <i>¹MTE Studios, South Africa; ²Heureka the Finnish Science Centre, Finland; ³National Council of Science Museums, India; ⁴Dialogue Social Enterprise, Germany</i></p> <p>Do we ignore those not interested in our basic hands-on approach to learning? Do we reject teaching approaches that require the use of community elders as authority figures? Do we consider the needs of young people from historically-disadvantaged communities who may not have the self-confidence to engage interactively with our displays? Do we initiate dialogues with colleagues from our many world communities? Perhaps most importantly, as we begin to reach into all parts of the world, are we going in as missionaries or as respectful collaborators? Should we not allow people from our many world cultures into the inner sanctum - into the high priesthood of science centres and science museums - as we attempt to write the script for the twenty-first century science centre?</p>		

15h45 - 17h00	3.6b SCIENCE CENTRES FACILITATING EDUCATION WITH SCIENTISTS	Meeting Room 1.4a
<p>Session Convenor: Daniel Schaffer, TWAS - The Academy of Sciences for the Developing World, Italy</p> <p><i>Presenters: Jean-Pierre Ezin¹; Mohamed El-Faham²; Julie Cleverdon³; Penny Haworth⁴</i> <i>¹African Union, Ethiopia; ²Bibliotheca Alexandrina, Egypt; ³Cape Town Science Centre and SAASSTEC, South Africa; ⁴South African Institute for Aquatic Biodiversity (SAIAB), South Africa</i></p> <p>This session will explore recent efforts to promote the establishment of additional science centres in Africa and the challenges that lie in the path of success. What factors account for the lack of science centres in Africa? Why have some African countries been successful in building such science centres while others have not? What can African nations learn from the success of others in their efforts to build science centres? Are cross-border regional science centres a realistic option? How can outside donors help? A special focus will be placed on the policies, particularly at the national and supranational regional levels, that need to be put in place to move the science centre agenda forward.</p>		

15h45 - 17h00	3.6c BEYOND GEN Z AND BEYOND CLIMATE CHANGE: WHO ARE THE NEW AUDIENCES AND ISSUES WE WILL NEED TO BE DEALING WITH?	Meeting Room 1.4b
<p>Session Convenor: Craig Cormick, Department of Innovation, Australia</p> <p><i>Presenters: Craig Cormick¹; Maggie Koerth²; Bafedile Kgwadi³; Claudia Urrea⁴</i> <i>¹Department of Innovation, Australia; ²BoingBoing.net, USA; ³South African Agency for Science and Technology Advancement (SAASTA), South Africa; ⁴One Laptop per Child, USA</i></p> <p>Not only is science uncool for many people, for others it openly criticises their heart-felt beliefs in pseudo-science and paranormal phenomena. So why would we expect these people to ever like science? A better understanding of the trends amongst young people's thinking, and also the values that lead to increased belief in pseudo-sciences are vital to bridge the growing gaps between traditional science thinking and members of the public who are isolated by, or sometimes hostile towards, science thinking.</p>		

15h45 - 17h00	3.6d ASTRONOMY IN SCIENCE CENTRES AND COMMUNITY DEVELOPMENT	Meeting Room 1.6a
<p>Session Convenors: Beverley Damonse, South African Agency for Science and Technology Advancement (SAASTA), South Africa; Pedro Russo, Universe Awareness, Germany</p> <p><i>Presenters: Kevindran Govender¹; Maritza Macdonald²; Sivuyile Manxoyi³</i> <i>¹South African Astronomical Observatory (SAAO) and International Astronomical Union (IAU), South Africa; ²AMNH, USA; ³South African Astronomical Observatory (SAAO), South Africa</i></p> <p>The scholar distinction between formal education (classroom) and informal education (museums, science centres, planetaria, observatories, internet, community classes, affinity groups, etc.) is one that is both inequitable and outdated. We believe that there should be multiple providers of educational experiences, and standard discovery mechanisms that allow great experiences to spread virally as well as standard ways to give students a credit for what they know and can do rather than for what classes they've sat through. The observatories, science centres and planetaria present one of the most important communities in this view. In this panel session we want to highlight the role of informal astronomy education in the capacity building of science literacy and present some lessons learned and future plans to use observatories, science centres and planetaria as multiple providers of astronomy educational experiences. This session will also discuss in detail the uniqueness of the Southern Africa Large Telescope Collateral Benefits Programme as a best practice of astronomy education and public outreach in the capacity building in the African context.</p>		

15h45 - 17h00	3.6e CO-OPERATION WITH THE FORMAL EDUCATION SECTOR	Meeting Room 1.6b
Session Convenor: David Kramer, Sci-Bono Discovery Centre, South Africa		
Presenters: Dennis Bartels ¹ ; Jose Triano ² ; Noel Jackson ³ ; Mwananyanda Mbikusit Lewanika ⁴ ¹ Exploratorium, USA; ² UNER (Universidad Nacional de Entre Ríos) and PUERTOCIENCIA, Argentina; ³ Centre for Life, UK; ⁴ STEM Education Centre, Zambia		
<p>Formal education has been set demanding targets as a result of the Millennium Development Goals and by emerging national education policies. Government increasingly seeks the achievement of improved levels of performance in mathematics, science and technology education. This pressure on schools and educational institutions presents science centres with a range of opportunities to achieve their own goals. By strengthening the way that they support formal education, science centres might well increase their impact and their own sustainability. Science centres can use this situation to strengthen their relationships with formal education. The session explores the processes for establishing relationships with formal education, the benefits, pitfalls and issues that face science centres in having relationships with government and the formal education sector.</p>		
17h15 – 18h15	SAASTEC BOARD MEETING (BY INVITATION)	Meeting Room 1.4a
From 18h30	Coach departures to the Gala Dinner	CTICC coach departure area
19h00 – 23h00	GALA DINNER	Moyo Stellenbosch at Spier Wine Estate
MC: Busi Maqubela, ArcelorMittal Science Centre Dinner Address: George Ellis, University of Cape Town		

COLOUR KEY

 ADMINISTRATION/SOCIAL	 RECOGNISING THE MULTI-CULTURAL ROOTS OF SCIENCE AND TECHNOLOGY
 PLENARY SESSIONS	 THE VALUE OF INDIGENOUS KNOWLEDGE SYSTEMS
 DEMONSTRATIONS/WORLD CAFÉS/FILM SCREENINGS/MEETINGS	 SCIENCE ACROSS CULTURES
 GENERAL INTEREST	 BUILDING COMMUNITIES THROUGH SCIENCE: THE ROLE OF SCIENCE CENTRES

07h00 - 09h00	Registration	Gallery
---------------	--------------	---------

07h00 - 09h00	4 WC THE WORLD CAFÉ SCIENTIFIQUE – CONVERSATION AS A CATALYST FOR CHANGE	Khoroni
---------------	--	---------

Session Convenor: Melanie Kiley, Symphonia, South Africa

Café Hosts: Penny Haworth¹; Vera Adams²; Vanessa Rouhani¹

¹South African Institute for Aquatic Biodiversity (SAIAB), South Africa²; Rhodes University, South Africa

Table Hosts: Clifford Nxomani¹; Judy Mann²; Michael Ellis³

¹National Zoological Gardens (NZG), South Africa; ²uShaka Sea World, South Africa; ³Sci-Bono Discovery Centre, South Africa

Who's who in the zoo? The African Association of Zoos and Aquaria (PAAZAB), represented by Dr Clifford Nxomani, puts the focus on visitor studies research. Delegates from science centres, zoos, aquaria, museums, art galleries, theme parks and festivals can meet to discuss developing and enhancing capacity and resource sharing as well as to create productive, ongoing partnerships. The question to be explored: *What research questions are pertinent to visitor studies in South African and continental institutions?*

07h00	SAASTEC AGM	Meeting Room 1.4a
-------	-------------	-------------------

09h00 - 10h30	4.1 FOURTH PLENARY SESSION: LEARNING AND SOCIAL ENGAGEMENT IN SCIENCE AND MATHS OUTSIDE OF SCHOOL	Auditorium 2
---------------	---	--------------

Chair: Lesley Lewis, Ontario Science Centre, Canada

Presenters: John Falk¹; Claudia Urrea²; Bakary Diallo³

¹Oregon State University, USA; ²One Laptop per Child, USA; ³African Virtual University (AVU), Kenya

This plenary session will include a selection of invited speakers to present on learning and social engagement in science and maths outside of school.

Plenary Address 5: John Falk, *Evidence of impact of science centres on public understanding of science: a US case study*

Plenary Address 6: Claudia Urrea, *The potential of non-formal environments towards an engaging science learning*

Plenary Address 7: Bakary Diallo, *Developing collaboratively math and science open educational resources: the experience of the African Virtual University*

Discussion

10h30 – 11h00	Refreshment break Posters Exhibition	Khoroni
---------------	--	---------

11h00 – 12h15	CONCURRENT SESSIONS	
---------------	----------------------------	--

11h00 – 12h15	4.2a SCIENCE CENTRES: CO-OPERATION WITH OTHER CULTURAL INSTITUTIONS	Auditorium 2
---------------	---	--------------

Session Convenor: Rosalia Vargas, The Pavilion of Knowledge - Ciência Viva, Portugal

Presenters: Dennis Bartels¹; Per-Edvin (Pelle) Persson²; Jorge Wagensberg³; Joaquin Fargas⁴

¹Exploratorium, USA; ²Heureka - The Finnish Science Centre, Finland; ³CosmoCaixa, Spain; ⁴Centro Científico Tecnológico Exploratoria, Argentina

If we consider that culture is the collection of knowledge, techniques, traditions and values acquired, shared and transmitted within a special social group, then science definitely fits in this definition. However, the general public associate culture to arts, literature or popular knowledge more easily than science. This idea is extremely pernicious, since culture can be viewed as being of general interest while science is only a subject for specialists. In this session we will present strategies adopted by different science centres to establish links between science and other cultures with the main purpose of reinforcing the idea of science as culture itself.

11h00 – 12h15	4.2b VIEWS ON SCIENCE IN A GLOBAL WORLD	Meeting Room 1.4a
---------------	---	-------------------

Session Convenor: Walter Staveloz, ASTC, USA

Presenters: Julien Anfruns¹; Michael Cherry²; Elaine Reynoso³

¹ICOM France, France; ²University of Stellenbosch, South Africa; ³Universum Science Center and UNAM, Mexico

One of the main messages we get these days about the strategic objectives for science centers is that they should become more relevant to, and better serve their communities. Although there is nothing wrong with that, the concept when applied as such, has some potentially unwanted side effects. Not so long ago, inspired by the work of the Earth Summit in Rio (1992) the message to the world was "Think global, act local". Today we seem to lose the global approach to focus on what matters locally. This session will both try to redefine why "global" matters to everyone and how our science centers can rebuild the right balance between local and global.

11h00 – 12h15	4.2c COLLABORATING ACROSS THE SCIENCE CENTRE-UNIVERSITY CULTURES: COMPARING PERSPECTIVES	Meeting Room 1.4b
	Session Convenor: Elsa Bailey, Elsa Bailey Consulting, USA	
Presenters: Carl Hoagland ¹ ; Robert West ² ; Shimrath Paul ³ ; Asger Høeg ⁴ ; Goery Delacote ⁵ Russell Stevens ⁶		
¹ University Missouri St. Louis (UMSL), USA; ² Informal Learning Experiences, Inc, USA; ³ Otago Museum Discovery World, New Zealand; ⁴ Experimentarium, Denmark; ⁵ At Bristol, UK; ⁶ Two Oceans Aquarium, South Africa		
Science centres often need to join forces with universities to effectively achieve their goals. The idea of “working together,” even when entered upon with the best of intentions and shared goals, faces multiple challenges. This session will examine the various aspects that come into play when science centres and universities choose to (or are required to) work together. We begin with two case studies of partnership projects and a focus on the inter-institutional communications, coordinations, and management approaches during those projects. We follow this with small group discussions where participants will consider and develop a tool, or check list, of items collaborators should think about and discuss as they plan and initiate a project across these two educational cultures.		

11h00 – 12h15	4.2d KNOWING THE ANCIENTS' WORLD: HOW SCIENCE CENTERS CAN HANDLE ARCHAEOLOGY, PROJECTS, EXPERIENCES AND PRACTICES	Meeting Room 1.6a
	Session Convenor: Vincenzo Lipardi, Fondazione Idis-Città della Scienza, Italy	
Presenters: Vincenzo Lipardi ¹ ; Philippa Haarhof ² ; Ou Jiancheng ³ ; Rudi Horak ⁴		
¹ Fondazione Idis-Città della Scienza, Italy; ² West Coast Fossil Park, South Africa; ³ China Science and Technology Museum, China; ⁴ Sci-Enza, South Africa		
Science centres can run projects about archaeology, and use its modern methodology, exhibits and new technologies, to catch attention and comprehension toward the world of the ancient. The session will discuss how different institutions all over the world present this theme to a public of families and children. During the session some case studies will be presented: the project of Fondazione Idis-Città della Scienza at Pompei Archaeological site, ancient sites in China, Cradle of Humankind and the West Coast Fossil Park in South Africa.		

11h00 – 12h15	4.2e RELEVANCE OF SCIENCE AND TECHNOLOGY CENTERS TO SOCIAL-CULTURAL INCLUSION AND ACCESSIBILITY	Meeting Room 1.6b
	Session Convenor: Maria Ines Nogueira, Estacao Ciencia da Universidade de Sao Paulo, Brazil	
Presenters: Maria Ines Nogueira ¹ ; Luz Lindegaard ² ; Mdumiseni Nxumalo ³ ; Tengku Nasariah Ibrahim ⁴		
¹ Estacao Ciencia da Universidade de Sao Paulo; ² Mirador Interactive Museum (MIM), Chile; ³ UNIZUL Science Centre, South Africa; ⁴ Petrosains, Malaysia		
Science is made by Man for Man (Fourez, 1997), but is humankind developing actions to assure men benefits from an understanding of science and technology? The Estação Ciência concerned with socio-cultural inclusion in S&T, have developed programs to children, in vulnerable condition, named “Clicar”, where they are involved in digital games, drawing and in hands on science activities supervised by specialists. For senior citizens there are two programs: Clicar 3rd Age” for digital inclusion and “Only with Experience” in which they are involved in theatre, preparing or developing a play. Also, children and adults are invited to explore the Science Center, share their experiences, resulting in self-confidence, rescue of dignity and social engagement, besides the opening of new perspectives in life.		

12h15 – 13h30	Lunch Posters Exhibition Demonstration	Khoroni
---------------	--	---------

12h35 - 13h05	4.3 DEMONSTRATION: CHEMISTRY IS ALL AROUND!	Khoroni
Demonstrators: Anna Gunnarsson ¹ ; Hans Hällman ² ; Wayne LaBar ³ ; Sookram Ramsaroop ⁴		
¹ NAVET, Sweden; ² Molekylverkstan, Sweden; ³ Liberty Science Center, USA; ⁴ New York Hall of Science, USA		
Chemistry is all around! This session will show that Chemistry is so much fun that it should be presented in every science centre! Three different science centres will show some of their best experiments and Chemistry activities for different age groups. The purpose of the session is to show the importance of an early start of Chemistry and to show the possibilities of creating exciting activities with everyday materials. It will illustrate topics through activities beyond the classroom and explore Chemistry in integrated, real-world themes. There are so many exciting experiments just waiting to be explored – let’s take a closer look at them– in the wonderful world of Chemistry!		

13h30 - 14h45	CONCURRENT SESSIONS	
---------------	----------------------------	--

13h30 - 14h45	4.4a TOWARDS THE GREATER GOOD: HOW SCIENCE CENTRE LEADERS CHANGE SOCIETY	Auditorium 2
	Session Convenor: Lesley Lewis, Ontario Science Centre, Canada	
Presenters: Lesley Lewis ¹ ; Julia Tagüeña ² ; Linda Conlon ³		
¹ Ontario Science Centre, Canada; ² Sociedad Mexicana para la Divulgación de la Ciencia y la Técnica, Mexico; ³ Centre for Life, UK		
Science centres have the potential to positively influence society, extending beyond their institutional walls to contribute to the greater good of their communities, their countries and the world. Today’s science centre leaders can be way-finders, guiding their institutions beyond organizational sustainability to be both relevant and accessible. The session will explore the next step in the leadership journey and consider some of the skills, behaviors and personal ethics that contribute to such success? A panel of societally oriented science centre leaders will reflect on their personal commitments to accessibility, relevance and sustainability and their Centre’s goals to embrace the greater good, go beyond established norms and encourage risk taking and exploration.		

13h30 - 14h45	4.4b THE ROLE OF INDIGENOUS KNOWLEDGE SYSTEMS (IKS) IN CROSS-CULTURAL COMMUNICATION OF SCIENCE BY THE INTERNATIONAL COMMUNITY OF SCIENCE CENTRES	Meeting Room 1.4a
Session Convenor: Mdumiseni Nxumalo, UNIZUL Science Centre, South Africa		
Presenters: Victoria Coats ¹ ; Tom Suchanandan ² ; Nancy Maryboy ³ ; David Begay ³ ¹ Oregon Museum of Science and Industry, USA; ² Department of Science and Technology National Indigenous Knowledge System Office (NIKSO), South Africa; ³ Indigenous Education Institute, USA		
Science communication needs to be understood as building a culture of scientific literacy. Locating it in the societies' different cultures will benefit it with support by local community leaders...A culture of science for developing nations' scientific thinking needs to be developed across all people groups so that societies can be part of informed decision making processes pertaining to human existence and the environment they live in. While there is a great deal of misunderstanding that still exists pertaining IKS, research has revealed its value in stimulating interest and ownership of development in different regions. How can IKS support science communication to break through cultural barriers, political scepticism and the myths that undermine knowledge development into scientific reasoning for all?		
13h30 - 14h45	4.4c SOCIAL MEDIA IN SCIENCE CENTRES – LIKE?	Meeting Room 1.4b
Session Convenor: Fikiswa Majola, Hartebeesthoek Radio Astronomy Observatory, South Africa		
Presenters: Bakary Diallo ¹ ; Denise Amyot ² ; Michael John Gorman ³ ; Lynne Smit ⁴ ¹ African Virtual University, Kenya; ² Canada Science and Technology Museums Corporation, Canada; ³ Science Gallery, Ireland; ⁴ Hippo Communications, South Africa		
Facebook, Twitter, e-Newsletters, blogging, Flickr, YouTube, LinkedIn – follow? Social media have changed the way in which young people communicate, and have become an important consideration for the development of a science centre's communication strategy. Perhaps we should use social media more in our educational and outreach programmes, in our communications with stakeholders, even maybe in our labelling and workshops? Join in the discussion as we explore how social media are currently being used by science centres and how they could be used in the future.		
13h30 - 14h45	4.4d EXPLORING THE RELEVANCE OF THE CONCEPT OF THIRD PARADIGM MUSEUMS	Meeting Room 1.6a
Session Convenor: Mike Bruton, MTE Studios, South Africa		
Presenters: Mike Bruton ¹ ; Xu Yanhao ² ; Jorge Wagensberg ³ ; Judy Mann ⁴ ¹ MTE Studios, South Africa ² CSTM, China; ³ CosmoCaixa, Spain; ⁴ uShaka Sea World, South Africa		
The purpose of science centres, compared to traditional artefact-orientated museums, is not the transfer of information to a receiver, but rather to encourage the visitor to construct his/her own meaning through physical interaction with "scientific phenomena". We will present and discuss examples of how principles and ideas from hands-on science centres have impacted on artefact-oriented museums, based on examples from Europe, Asia and Africa. We discuss the so-called "third paradigm museum", i.e. a museum that uses the best exhibition concepts from both museums and science centres. This coming together is of benefit to both kinds of institutions.		
13h30 - 14h45	4.4e AGENTS FOR CROSS-CULTURAL DIPLOMACY	Meeting Room 1.6b
Session Convenor: Brenton Honeyman, Questacon, Australia		
Presenters: Brenton Honeyman ¹ ; Mamoru Mohri ² ; Ou Jiancheng ³ ; Un Woo Lee ⁴ ; Vincenzo Lipardi ⁵ ; Elaine Reynoso ⁶ ¹ Questacon, Australia; ² Miraikan, Japan; ³ China Science and Technology Museum, China; ⁴ National Science Museum, Republic of Korea; ⁵ Fondazione Idis-Città della Scienza, Italy ⁶ Universum Science Center and UNAM, Mexico		
Science centres and museums have knowledge, contacts and professional skills to foster the cross-cultural understanding essential for strengthening connections and relationships between countries. They do this by exchanging their distinctive content or expertise with communities in other countries, by opening their visitors' eyes to different cultures and by promoting partnerships with other countries. This cooperation builds trust, understanding and capacity between countries. This panel discussion features case studies of partnering between science centres and museums in different countries around the world.		
14h45 - 15h15	Refreshment break Posters Exhibition	Khoroni
15h15 – 16h45	4.5 CLOSING PLENARY SESSION: THE WAY FORWARD	Auditorium 2
Chair and Welcome: Mike Bruton, 6SCWC Chair, MTE Studios, South Africa		
Presenters: Isaac Ramovha ¹ ; Mike Bruton ² ; Erik Jacquemyn ³ ; Camille Pisani ⁴ ¹ Department of Science and Technology, South Africa ² 6SCWC Chair, MTE Studios, South Africa; ³ Technopolis® - the Flemish Science Center, Belgium; ⁴ Royal Belgian Institute of Natural Sciences, Belgium		
This closing plenary session will launch the Cape Town Declaration, announce new initiatives, briefly reflect on the outcomes of the 6SCWC and launch the upcoming Science Center World Summit 2014. Launch of the Cape Town Declaration: Mike Bruton Announcement of new initiatives: Isaac Ramovha 6SCWC World Congress Wrap Up: Mike Bruton Launch of the Science Center World Summit 2014: Erik Jacquemyn and Camille Pisani		
17h00 – 19h00	IPC MEETING: SCIENCE CENTER WORLD SUMMIT 2014 (BY INVITATION)	Meeting Room 1.4a