DAY 1	l	TUFSDAY 22	NOVEMBER	
Time (Central Africa Time)	ROOM A	ROOM B		DOOM D
7:30 AM *Registration	RUUIVI A	KUUIVI B	ROOM C	ROOM D
8 - 9	INVITED WORKSHOP (7):			
9 - 10 *Tea/Coffee	Water and Sanitation	INVITED WORKSHOP (2):	INVITED WORKSHOP (3):	
10 - 11		Governance & Policy,	Environment, Agriculture, and	INVITED WORKSHOP (4): Manufacturing
	INVITED WORKSHOP (6):	Standards, and Ethics	Ecovillages	ivialiulacturing
11 - 12 PM	Energy and Materials			
12 - 1 *Lunch Break				
1-2	INVITED WORKSHOP (5):	INVITED WORKSHOP (1):		
2 - 3	Education, Knowledge, and Technology Transfer	Governance & Policy, Standards, and Ethics		
3 - 4 *Tea/Coffee	WELCOME RECEPTION			
4 - 5	KEYNOTE TALK (1)			
5 - 6	KEYNOTE TALK (2)			
DAY 2		WEDNESDAY	23 NOVEMBER	
Time (CAT)	ROOM A	ROOM B	ROOM C	ROOM D
7:30 AM *Registration				
8 - 9	OPENING SESSION			
9 - 10 *Tea/Coffee 10 - 11	KEYNOTE TALK (3)			
- 		D. D. D. D. C.	PAPER SESSION: Education,	PAPER SESSION: Health
11 - 12 PM	PAPER SESSION: Sustainability,	PAPER SESSION: Climate Change	Knowledge, and Technology	PAPER SESSION: Water and
	Social Inequality, and Human Wellbeing &	Change	Transfer (1)	Sanitation
10 1 * 1 0 1	Green Economy and Innovation			
12 - 1 *Lunch Break 1 - 2	PANEL: BEST PAPERS (1)			
2 - 3	KEYNOTE TALK (4)			
3 - 4 *Tea/Coffee	PAPER SESSION: Construction			
4 - 5	and Infrastructure & Cities and	TECHATHON	WORKSHOP: Education,	WORKSHOP: Governance &
4 - 5	Spaces (1)		Knowledge, and Technology Transfer (1)	Policy, Standards, and Ethics (1)
5 - 6			(=/	ν-/
6 - 7	CONFERENCE			
7 - 8	DINNER			
DAY 3		THURSDAY 2	4 NOVEMBER	
Time (CAT)	ROOM A	ROOM B	ROOM C	ROOM D
7:30 AM *Registration	I			
8 - 9 9 - 10 *Tea/Coffee	INAT MEETING KEYNOTE TALK (5)			
10 - 11	KETNOTE TALK (5)			PAPER SESSION: Peace,
	PAPER SESSION: Environment,	PAPER SESSION: Construction	PAPER SESSION: Education,	Security and Safety
11 - 12 PM	Agriculture, and Ecovillages	and Infrastructure & Cities and Spaces (2)	- ((a)	PAPER SESSION: Governance &
		Spaces (2)	Transfer (2)	Policy, Standards, and Ethics
12 - 1 *Lunch Break				
1 - 2 2 - 3	PANEL: BEST PAPERS (2) KEYNOTE TALK (6)			
3 - 4 *Tea/Coffee	KEINOTE TALK (0)			
4 - 5	FORUMA III	PAPER SESSION: Energy and	WORKSHOP: Education,	WORKSHOP: Governance &
	FORUM: Women in Appropriate Technology	Materials	Knowledge, and Technology	Policy, Standards, and Ethics
5 - 6	Appropriate recimology	PAPER SESSION: Technology R&D & Services Industry	Transfer (2)	(2)
			NOVEMBER	
DAY 4	DOCAL A		NOVEMBER	PO0*4 5
Time (CAT) 7:30 AM *Registration	ROOM A	ROOM B	ROOM C	ROOM D
8 - 9	l			
9 - 10 *Tea/Coffee	KEYNOTE TALK (7)			
10 - 11	PANEL: Innovation in Africa			
11 - 12 PM 12 - 1				
1 - 2		LUNCH & PRAYERS BREAK		
2 - 3	SCHOOL STUDENTS' SESSION	TECHFAIR SESSION	POSTER	SESSION
3 - 4 *Tea/Coffee		120W AIR 32331010		
4 - 5 5 - 6	KEYNOTE TALK (8) CLOSING SESSION			
J-0	CLOSING SESSION			

DAY 1: Tuesday 22 November

TIME	ROOM A	ROOM B	ROOM C	ROOM D
8 – 9 AM	INVITED WORKSHOP (7):	INVITED WORKSHOP (2):	INVITED WORKSHOP (3):	INVITED WORKSHOP (4):
	Water and Sanitation	Governance & Policy, Standards,	Environment, Agriculture, and	Manufacturing
		and Ethics	Ecovillages	
	WASH (WATER, SANITATION			
	AND HYGIENE) IN ELFASHER	WORKING WITH	ECOLOGICAL APPROACHES TO	3D PRINTING FUNDAMENTALS:
	O	UNDERREPRESENTED GROUPS TO	FOOD SECURITY AND PEACE IN	GETTING STARTED ON PRINTER
	Organizers : Mustafa Omer Mohammed,	INFORM TECHNOLOGY GOVERNANCE & POLICYMAKING	THE SAHEL FROM THE SMALL HOLDER FARMER UP	CONFIGURATION, TROUBLESHOOTING, AND CAD FILE
9 - 10 *Tea/Coffee	Mehad Khalil Adam Mohammed,	GOVERNANCE & POLICTIVIANING	HOLDER FARIVIER OF	TO OBJECT STEPS
J-10 rea/conee	Mayada Yousif Ibrahim Mansur,		Organizers:	10 003201 3121 3
	Mustafa Abdoalrhman	Organizer:	Brian Stephenson, Mariam	Organizers:
	Mohamed, and Saif Elislam Adam	Lassana Magassa	Olorundare, Marwan Awad, and	Jephias Gwamuri and William
	Musa Abdelkareem		Enayat Mohaker	Goriwondo
10 - 11	INVITED WORKSHOP (6):			
	Energy and Materials			
	COLLABORATIVE DESIGN AND			
	CONSTRUCTION WORKSHOPS			
	BUILD LOCAL CAPACITY IN			
	SOLAR OVENS AND SMALL WIND TURBINES ON SUMBA ISLAND,			
11 - 12 PM	INDONESIA - USEFUL OUTCOMES			
11 - 12 PIVI	FOR AUTONOMOUS			
	RENEWABLE ENERGY			
	GENERATION?			
	Organizer:			
	Tim Frodsham			
_				
12 – 1 *Lunch				

TIME	ROOM A	ROOM B	ROOM C	ROOM D
1 - 2	INVITED WORKSHOP (5): Education, Knowledge, and	INVITED WORKSHOP (1): Governance & Policy, Standards,		
	Technology Transfer	and Ethics		
	SUSTAINABLE COMPUTING	A GLOBAL ETHICS FOR APPROPRIATE		
2 - 3	USING THE RASPBERRY PI PLATFORM	TECHNOLOGY		
		Organizers:		
	Organizers:	Charles Verharen, John Tharakan,		
	Jesse Bemley, Bryan Bemley,	Gada Kadoda, George Middendorf,		
	Anthony Adedoyin, and Olaoluwa Adewoye	and David Schwartzman		
3 - 4	WELCOME RECEPTION Akram El Khalifa and Amel Bakhiet			
4 - 5	KEYNOTE TALK (1)			
	THE DELUSION OF (NEUTRALITY			
	OF TECHNOLOGY): A CRITIQUE			
	FROM A REGIONAL PERSPECTIVE			
	Speaker: Mohamed Abdelrahman Hassan			
	Moderator : Aya Aziz			
5 – 6 PM	KEYNOTE TALK (2)			
	TOWARDS A MORE CIRCULAR ECONOMY: RECYCLING ORGANIC WASTES INTO BIOGAS AND FERTILIZER			
	Speaker: Myron Williams			
	Moderator: John Trimble			

DAY 2: Wednesday 23 November

TIME	ROOM A	ROOM B	ROOM C	ROOM D
8 – 9 AM	OPENING SESSION			
	Gada Kadoda			
	Akram El Khalifa			
	Amel Bakhiet			
9 - 10 *Tea/Coffee	KEYNOTE TALK (3)			
	EVOLUTION OF SOLAR			
	CONCENTRATOR TECHNOLOGY IN			
	INDIA FOR THERMAL			
	APPLICATIONS LIKE SOLAR			
	COOKING, COOLING AND POWER			
	GENERATION			
	GENERATION			
	Speaker: Deepak Gadhia			
	Moderator: John Tharakan			
10 - 11		PAPER SESSION: Climate Change	PAPER SESSION: Education,	PAPER SESSION: Health
		Chair: Taurai Mutanda	Knowledge, and Technology	Chair: John Tharakan
			Transfer (1)	
		26: INCREASE ATMOSPHERIC	Chair: Marwan Adam	12: SIGN LANGUAGE GLOVES (ARABIC
		WATER GENERATING EFFICIENCY		SIGN LANGUAGE)
		BY USING THERMOELECTRIC	20: THE BAREFOOT WAY	Hamid Mohamed Hamid Mohamed,
		COOLERS CHIP AND ELECTROLYTE	TOWARD "FREEDOM, PEACE,	Mohamed Osama Omer Abuzaid,
		LIQUID	AND JUSTICE": A QUIET	Tahleel Mahmoud Idrees Abd-Alhafeez,
		Rumaisa Mohey Eldin Abd Elaziz	REVOLUTION	and Amin Galal Elhag Mohamed
		Miki, Tahleel Mahmoud Idrees	Gada Kadoda	
		Abdelhafeez, Mustafa Ibrahim		151: APPLICABLE INDUSTRY 4.0 –
		Yousif Ishaq, and Mohamed	220: AFRICAN ETHICS AND AN	TECHNOLOGIES IN HEALTH 4.0: A
		Ibrahim Salih Fadul	IDENTITY FOR GLOBAL	REVIEW
			SUSTAINABILITY	Meshack Mazibuko, Lagouge Tartibu,
		105: MULTIPLE-CRITERIA	Enrico J. Wensing and Alexia J.	and Robert Mutyavavire
		DECISION ANALYSIS	Wensing	

TIME	ROOM A	ROOM B	ROOM C	ROOM D
11 – 12 PM	PAPER SESSION: Sustainability, Social Inequality, and Human Wellbeing & Green Economy and Innovation Chair: Marcel J. Castro Sitiriche 66: INTEGRATED DEPRIVATION AREA MAPPING SYSTEM FOR DISPLACEMENT DURABLE SOLUTIONS AND SOCIO- ECONOMIC RECONSTRUCTION, SUDAN Nuha Eltinay, Monika Kuffer, Caroline Margaux Gevaert, Inas M.M. Ali, Charlotte Flasse4, Cheruiyot Onyambu, Maysoon Badi, Asgad Gummah, Kumi Julia, Ibrahim Kushieb, Wafa Sakhi, Taha	FRAMEWORK FOR WATER INFRASTRUCTURE DEVELOPMENT PRIORITIZATION IN SUDAN Eiman M. Karar and Bouran Awad Hassan 130: FACTORS AFFECTING SOLAR BOXCOOKER (SBC) TECHNOLOGY ADOPTION IN KHARTOUM STATE, SUDAN Mawahib E. Ahmed and Nouralla Y. Bakhiet 186: ECOVILLAGE MODELS AS SOLUTIONS TO COMMUNITY VULNERABILITY TO HUNGER, DISASTERS AND DEVELOPMENT CHALLENGES IN AFRICA George Atisa, Sharon McIntyre, and Cecilio Ortiz-Garcia 198: USING GEOSPATIAL TECHNIQUES TO ASSESS LANDUSE CHANGE DUE TO FLOOD HAZARD IN KOSTI LOCALITY, SUDAN Sona Mohammed 213: BUILDING THE ELECTRICITY SECTOR IN SUDAN: ADDRESSING FAULT SCENARIOS IN SMART GRID	ROOM C 72: RE-ENGINEERING ENGINEERING EDUCATION FOR SUSTAINABLE DEVELOPMENT John Tharakan 161: DEVELOPING RESILIENT COMMUNITIES: THE ROLE OF HIGHER EDUCATION INSTITUTES Walaa Ahmed and Akram Elkhalifa 192: EQUIPPING FUTURE DESIGN ENTREPRENEURS WITH APPROPRIATE SMALL-BATCH MANUFACTURING TECHNOLOGIES Oratile R. Mokgatla and Daniel Carstens 195: DETERMINANTS OF SUSTAINABLE COMPETITIVENESS IN AFRICA: ANALYSIS WITH THE OPEN QUINTUPLE HELIX MODEL Bernadin Géraud Comlan Ahodode 196: UNIVERSITY-INDUSTRY COLLABORATION, LEARNING, AND INNOVATION IN AFRICA Bernadin Géraud Comlan Ahodode and Joel Stephan Tagne	185: USING DATA ANALYTICS TO PREDICT COVID-19 CASES IN SUDAN Aisha Abdel Aziz Elhussien Ali, Marwa Olaish Ahmed Khalafallah, Rugia Ismail Mohamed Ahmed, and Izzeldin Kamil Amin 191: UNIVERSITY TO INDUSTRY: THE COMMERCIALISATION OF APPROPRIATE MEDICAL DEVICES IN THE SOUTH AFRICAN CONTEXT Dominic White and Ashton Margarete Moseley PAPER SESSION: Water and Sanitation Chair: Sahl Yasin 5: FLUORIDE REMOVAL FROM GROUND WATER IN THE EAST NILE AREA (SUDAN) USING LOCALLY AVAILABLE CHARCOAL Motwkel Mahmoud Ibraheem Alhaj and Bashir Mohammed Elhassan 157: WATER QUALITY MODEL FOR BLUENILE KHARTOUM STATE- SUDAN USING HEC-RAS APPLICATION Alwaleed Seif Aldeen Khider, Khalid Altegani Khalid Abdallah, Mohamed Elfatih Mohamed, and Michael Magdy Mounir Kamel
	_			93: MODIFIED CERAMIC POT FOR WATER PURIFICATION METHODS IN RURAL AREAS IN SUDAN

TIME	ROOM A	ROOM B	ROOM C	ROOM D
	162: APPROPRIATE METHODS TO			Sahl Yasin, Noha Almahi,
	ENSURE HOUSING PROVISION			Gameraldawola Mustfa, Haider Abaker,
	FOR THE LOW-INCOME GROUPS			Rabei Suliman
	IN KHARTOUM, SUDAN			
	Shaza Khatab and Mustafa, A/Bagi			
12 – 1 *Lunch				
1-2	PANEL: BEST PAPERS (1)			
	 Cities and Space & Construction and Infrastructure Energy and Materials Health Governance & Policy, Standards, and Ethics 			
	Moderator : Charles Verharen			
2-3	KEYNOTE TALK (4)			
	WASTEWATER TREATMENT AS IF			
	PEOPLE MATTERED!			
	Speaker: Lilia Abron			
	Moderator: Hattie Carwell			

TIME	ROOM A	ROOM B	ROOM C	ROOM D
3 – 4 *Tea/Coffee	PAPER SESSION: Cities and Space	TECHATHON	WORKSHOP: Education,	WORKSHOP: Governance & Policy,
	& Construction and Infrastructure	<i>Organizer</i> : Mjumbe Poe	Knowledge, and Technology	Standards, and Ethics (1)
	(1)		Transfer (1)	
	Chair: Amged O. Abdelatif			169: OPEN DATA SHARING PROTOCOL:
			10: PLASTIC-FREE PERIOD:	A SUDANESE EXPERIMENT
	53: EXPERIMENTAL ASSESSMENT		MENSTRUAL CUPS	Safa Suliman, Marwan Adam, Rofaida
	OF FABRIC- REINFORCED		Marwa Tageldin, Muna	El Zubair, Gada Kadoda
	CEMENTITIOUS MORTAR (FRCM)		Abdelrahman, Maisaa Dean, and	
	MECHANICAL PERFORMANCES		Aamir Dean	
	Alaa Mohammed Ali, Marco Di			
	Ludovico, and Costantino Menna			
	99: UTILIZING OF PLASTIC WASTE			
	INTO MANUFACTURING OF PAVER			
	TILES			
	Ali Hussein M. Ali and Abdelmonim			
4 - 5	Adam Haroun			
	167: THE EFFECT OF USING			
	CEMENT DUST ON THE			
	PROPERTIES OF MORTAR AND			
	CONCRETE			
	Ali Hussein M. Ali and Adel Salah A.			
	Alrahim			
	199: DESIGN OF PASSENGER CARS			
	ASSEMBLY FACTORY IN NORTH OF			
	KHARTOUM USING BUILDING			
	INFORMATION MODELLING (BIM)			
	Mohamed Elrashid Mohamed,			
	Ahmed Mohamed Doul, Mohamed			
	Yousif Mudawi, Naji Mohammed			
	Othman, Mohammed Tagelsir			
	Abdelsalam, and Aziz Fadoul			
	23: ARTIFICIAL INTELLIGENCE			
	APPROACH FOR PREDICTING THE			
	APPROACH FOR PREDICTING THE			

TIME	ROOM A	ROOM B	ROOM C	ROOM D
	COMPRESSIVE STRENGTH OF			
	CONCRETE MIXTURE			
	Alziber Mohammed, Ayman Salah,			
	Moayad Jamal, Omer Ali, and			
	Yousif Hummaida Ahmed			
	110: PREDICTION OF SOIL'S			
	COMPACTION CHARACTERISTICS			
	USING ARTIFICIAL NEURAL			
	NETWORKS (ANNs)			
	Mohamed Alhag Emad Mohamed,			
	Alzobair Mohammed, and Ahmed			
	Mohammed Elsharief			
5 – 6 PM				
6 - 7				
7 – 8 PM	CONFERENCE DINNER			

DAY 3: Thursday 24 November

TIME	ROOM A	ROOM B	ROOM C	ROOM D
8 – 9 AM	MEETING: INTERNATIONAL NETWORK ON APPROPRIATE TECHNOLOGY (INAT) Chair: John Trimble			
9 - 10 *Tea/Coffee	KEYNOTE TALK (5) APPROPRIATE SCALES OF ARCHITECTURE FOR THE AFRICAN ANTHROPOCENE Speaker: Sushma Patel Moderator: Akram El Khalifa			
10 - 11	PAPER SESSION: Environment, Agriculture, and Ecovillages Chair: Brian Stephenson 28: MUTUAL RELATIONSHIP BETWEEN LAND DEGRADATION AND POVERTY IN SUDAN Mohammed Abdalla Elsheikh and Eltayeb Suleiman Babikir 29: THE SMART JUBRAKA: A SUSTAINABLE HOME GARDEN FOR FOOD SECURITY Enayat Salih, Marwan Adam and Fatima Ali 33: ELECTROCOAGULATION OF CATTLE MANURE WASTEWATER Bianca Bailey, Rabin Bhattarai, Tony Grift, and Sharvi Goyal	PAPER SESSION: Cities and Space & Construction and Infrastructure (2) Chair: Aamir Dean 178: RECONSTRUCTION STRATEGIES IN THE SYRIAN ARAB REPUBLIC Munir Al-Atrash, Elham Badour, and Isam Mohammed Abdel- Magid 120: REMARKS ON IDENTIFICATION AND APPROACHES OF PROTOTYPE BUILDINGS IN SUDAN_THE CASE OF PUBLIC SERVICES BUILDINGS Razan Abdelgadir, Rami Zeinelabdein, and Tallal Saeed	PAPER SESSION: Education, Knowledge, and Technology Transfer (2) Chair: John Trimble 208: FOOD WASTE, NOT IN GOOD TASTE: AN INVESTIGATION OF THE CAUSES OF FOOD WASTE IN THE NATIONAL SCHOOL NUTRITION PROGRAMME Tressilia Mumba, and Hema Kesa 152: COVID-RESPONSIVE STUDIO MANAGEMENT SYSTEMS IN ARCHITECTURAL EDUCATION: THE CASE OF UNIVERSITY OF KHARTOUM Duaa Abdalhaleem, Akram Elkhalifa, and Malathe Hamid	PAPER SESSION: Peace, Security, and Safety Chair: Charles Verharen 17: KNOWLEDGE NETWORKING FOR EAST AFRICA CSO NETWORK FOR PEACEBUILDING AND CONFLICT PREVENTION (ECONET) Marwan Adam, Dalia Eissa, and Gada Kadoda 197: REGIONAL SPATIAL STRATEGY AS A TECHNICAL TOOL FOR PEACE CONSOLIDATION IN SUDAN Salah Mahmoud Osman 129: DECENT HOME DESIGN FOR RESETTLEMENT OF WAR DISPLACED IN DARFUR, SUDAN Fatimah Abubaker

TIME	ROOM A	ROOM B	ROOM C	ROOM D
11 - 12 PM	35: EFFICACY OF CONSTRUCTED WETLAND IN THE IMPROVEMENT OF EFFLUENT FROM SOBA STABILIZATION PONDS, KHARTOUM, SUDAN 2021 Ibrahim Ahmed Suliman Bdal, Babiker Ahmed Babiker, and Aziza abd Elgadir Mohammed Abd Ulla 205: DESIGNING A PORTABLE TREATMENT SYSTEM FOR EQUIDS IN RURAL SOUTH AFRICA IN A POSTHUMAN-CENTRED DESIGN FRAMEWORK Azél Viljoen and Martin Bolton	134: SOLVING THE URBAN PROBLEMS FROM WITHIN: THE CASE OF MAYOUP Mirametta Botrous and Akram Elkhalifa 206: ACHIEVING RESILIENCE IN COASTAL COMMUNITIES: A CASE STUDY OF JABAL AWLIYA LOCALITY, KHARTOUM-SUDAN Hanan Alswahli, Samah Tambal, and Mohammed Gismallah 13: THE ROLE OF SUDANESE PRIVATE SECTOR IN PEACEBUILDING IN WASH SECTOR: INITIATION OF INFRASTRUCTURE FOR PEACE PRACTICES Bouran Awad Hassan	52: CLOUDS OF LIES OBSCURE SUDAN'S SKY: POLITICS OF MISINFORMATION, DISINFORMATION, AND HATE IN TIMES OF TRANSITION Husam Mahjoub and Marwan Adam 90: AN ASSESSMENT OF THE EFFECTS OF SOCIAL MEDIA ON LEARNERS AT NUST IN BULAWAYO, ZIMBABWE Sibangiso Ngwenya and Khesani Richard Chilumani 207: PREDICTION AND ANALYSIS MODEL FOR ACADEMIC SCHOOL PERFORMANCE (SUDANESE PRIMARY SCHOOLS AS CASE STUDY) Safa Suliman, Asma Idris, Sara Mergani, and Duha Gaafar 190: AN ANALYSIS OF IMPACT OF SEO FOR SUDANESE UNIVERSITIES WEBMETRICS RANKING, CASESTUDY: UNIVERSITY OF KHARTOUM WEBSITES Nada Ali	PAPER SESSION: Governance & Policy, Standards, and Ethics Chair: Charles Verharen 203: A VISION OF LEED-LIKE ETHICAL STANDARDS FOR A GLOBAL CONSORTIUM OF ECOVILLAGES Charles Verharen, Flordeliz Bugarin, John Tharakan, George Middendorf, David Schwartzman, Peter Schwartzman, Gada Kadoda, Bekele Gutema, and Enrico Wensing 73: SUDAN ICT POLICY PLANNING: CITIZENS CENTRED, MULTI-STAKEHOLDER, AND MCDA FORMULATION FOR ICT POLICY Marwan Adam and Osama Khair 217: PEOPLE-CENTERED EVALUATION OF INDUSTRIAL POLICIES IN POST REVOLUTION SUDAN 2019-2021 Muzan Alneel
12 1 *1				
12 – 1 *Lunch 1 - 2	PANEL: BEST PAPERS (2)			
	 Climate Change Environment, Agriculture and Ecovillages Water and Sanitation 			

TIME	ROOM A	ROOM B	ROOM C	ROOM D
	• Education, Knowledge and			
	Technology Transfer			
	• Peace, Security, and Safety			
	Moderator: Taurai Mutanda			
2-3	KEYNOTE TALK (6)			
	NANO-MATERIALS FOR ENERGY			
	APPLICATIONS & WOMEN IN			
	STEM IN SUDAN			
	Speaker: Nashwa Eassa			
	Moderator : Amel Bakhiet			
3 - 4 *Tea/Coffee	FORUM: Women in Appropriate	PAPER SESSION: Energy and	WORKSHOP: Education,	WORKSHOP: Governance &
	Technology	Materials	Knowledge, and Technology	Policy, Standards, and Ethics (2)
	Chair: Hattie Carwell	Chair: Jephias Gwamuri	Transfer (2)	
	Burney & Birmondata ha	TAR COLAR DOWER FUTURES	T. HOW TO INCORDERATE A	2: SCIENCE, TECHNOLOGY AND
	Presenters & Discussants to be confirmed.	219 SOLAR POWER FUTURES: BOTTOM-UP POWER	7: HOW TO INCORPORATE A CITIZEN SCIENCE APPROACH INTO	INNOVATION APPLICATION TO BUILD GRAND HYDROELECTRIC
	commied.	Lyam Rivera, Javier Moscoso-	AT PROJECTS?	GENERATION DAMS IN AND FOR
		Cabrera, Alexis Burgos-Rivera,	ATTROJECIS:	AFRICA: THE CASE OF GERD
		Reiner Simshauser-Arroyo, and	Organizers:	
		Marcel Castro-Sitiriche	Gada Kadoda, Marwan Adam,	Organizers:
			Rofaida El Zubair, Safa Mohamed,	Mammo Muchie and Gada Kadoda
		216: MICROALGAL BIOMASS AS	Rawan Sharfi, Wadah Omer,	
		BIOFACTORIES FOR THE	Fatima Salah, Sahl Wasin, and	
		PRODUCTION OF BIOENERGY AND	Dalia Eissa	
		BIOFUNCTIONAL COMPOUNDS		
		FOR PHARMACEUTICAL		
		APPLICATIONS Taurai Mutanda, Nicole Pillay and		
		Akash Anandraj		
		7 ikusii 7 iiuliuluj		

TIME	ROOM A	ROOM B	ROOM C	ROOM D
4 - 5				
		79: RENEWABLE ENERGY		
		ALGORITHM TOOL FOR RURAL		
		ELECTRIFICATION AND		
		APPROPRIATE		
		Robert A. García Cooper and		
		Marcel Castro Sitiriche		
		184: REAL ENVIRONMENTAL		
		PROBLEMS REQUIRING REAL		
		SOLUTIONS: THE DEVELOPMENT		
		AND APPLICATION OF		
		INNOVATIVE BIOMATERIALS IN		
		NEW PRODUCT DEVELOPMENT		
		WITHIN INDUSTRIAL DESIGN		
		EDUCATION		
		Martin Bolton		
		175: ANALYSIS OF ROOFTOP GRID		
		CONNECTED SOLAR PV VS UTILITY		
		SCALE PV POWER PLANT, SUDAN		
		CASE STUDY		
		Mahmoud Hassan Onsa, and Iman		
		Onsa		
		144: INNOVATIVE METHODS TO		
		IMPROVE AERODYNAMIC		
		PERFORMANCE OF SAVONIUS		
		TYPE WIND TURBINE		
		Mai K. H. Mohamed, Hadia I. E.		
		Elhassan, and Eltayeb M. Eljack		
		153: CONTROL OF DYNAMIC		
		STALL ON A PITCHING AIRFOIL		
		USING A LEADING-EDGE		
		ROTATING CYLINDER		
		Munib Zain, Elasim Elhaj, and		
		Eltayeb Eljack		

TIME	ROOM A	ROOM B	ROOM C	ROOM D
		ALLEVIATION USING A ROTATING LEADING-EDGE CYLINDER Ahmed M. A. AbdAllah, Moayed S. M. Hassan, Eltayeb M. Eljack.		
5 – 6 PM		PAPER SESSION: Technology R&D & Services Industry Chair: Jephias Gwamuri		
		132: THE DEVELOPMENT OF AN APPROPRIATE ASSISTIVE DEVICE FOR WATER SAFETY TRAINING IN SOUTH AFRICAN SCHOOLS Wessel Wessels and Ashton Margarete Moseley		
		46: WASTE WATER TREATMENT VIA ACTIVATED FLY ASH ADSORBENT Afaf Ghais Abadi		

DAY 4: Friday 25 November

TIME	ROOM A	ROOM B	ROOM C	ROOM D	
8 – 9 AM					
9 - 10 *Tea/Coffee	KEYNOTE TALK (7)				
	APPROPRIATE TECHNOLOGY, AND				
	SUSTAINABLE PEACE AND				
	DEVELOPMENT: A REFLECTION ON				
	SUDAN				
	Speaker: Guma Kunda				
	Moderator: Gada Kadoda				
10 - 11	PANEL: Innovation In Africa				
	Discussants to be confirmed.				
11 - 12 PM					
12 – 1		LUNCH & PRAYERS BREAK			
1 - 2		ECNOTA TRATERO DREAR			
2 - 3	SCHOOL STUDENTS' SESSION:	TECHFAIR SESSION:	Andrea Dung, Martin Speth, and Clemens Bonnen 107: IMPROVING INCUBATION PROGRAMS MECHANISMS FOR CREATIVE IDEA TO ENHANCE PRODUCTION PROCESS Yahia Holi 18: GOLD DETECTION USING REMOTE SENSING AND ARTIFICIAL		
	STEM Sudan	8: DUNIA AL-MADARIS: A			
	Projects List to be confirmed.	PROJECT BLENDING APPROPRIATE			
		TECHNOLOGY AND CITIZEN SCIENCE			
		Gada Kadoda, Marwan Adam,			
		Rofaida El Zubair, Safa Mohamed			
		460 0011110111101111011111			
		160: CONTROLLING FLOOD AND			
		BENEFITING IN IRRIGATION PURPOSES AND IN GENERATION			
		ELECTRICITY IN THE RIVER NILE			

3 - 4 *Tea/Coffee	Enas Bushra Homaida Ahmed, Maab Mohamed Ahmed Omer,	94: THE USE OF RECYCLED SLAG STEEL POWDER IN FINGER PRINT PROCEDURE AFTER CHEMICAL TREATMENT
	and Maaz Omer Mohammedani Hamed	Abdelazem E.A. Mohamed, Sahl Yasin, Abdelsakhi Suliman, Sara Eljaile, Mohammed A. Halato, and Siddig T Kafi
	61: ONLINE ELECTION DASHBORAD FOR CANDIDATES VOTING Safa Mohammed Ahmed Suliman	148: NUMERICAL INVESTIGATION OF AIRFOIL DIPOLE NOISE DUE TO FLOW SEPARATION AND REATTACHMENT AT NEAR STALL CONDITIONS Mohamed G. H. Salih, Omer E. K. Mustafa, and Eltayeb M. Eljack
	and Iman Adam El Tayeb	154: NUMERICAL SIMULATION OF FLUID FLOW AND HEAT TRANSFER IN A PLANETARY GEARBOX
		Rawy J.M. Ibrahim, Ammar E.M. Elamin, and Eltayeb M. Eljack
		155: IMPROVEMENT OF AERODYNAMIC PERFORMANCE OF STRAIGHT- BLADED DARRIEUS WIND TURBINE USING BLADES EQUIPPED WITH MOVING SURFACE
		Abdelsalam Sharfy, Albraa S. S. Mohammed, and Eltayeb Eljack
		21: CAUSES OF DEGRADATION OF THE VEGETATION COVER IN THE WHITE NILE STATE-SUDAN (ELGETAINA AREA) Nuha Mutwali and Ahmed Salih
		111: THE USE OF ANIMAL SENSOR DATA FOR PREDICTING ANIMALS' ACTIVITIES USING MACHINE LEARNING
		Hiba ELjozouly AbdELwahab Mohamed
		60: DESIGN OF A PROSTHETIC KNEE-JOINT BASED ON 4BAR MECHANISM FOR AMPUTEES IN THE DEVELOPING WORLD
		Safa Elamin Mahmoud Hamad, Hanna Gasem Ahmed Abdalla, Mona Elemam Ali Sharf Aldeen, Fatima Galal Ahmed Elsayed, Mohamed Ibrahim Salih Fadul, and Altayeb Mobarak Altayeb Babeker
		103: USING OF A LOCAL HERB (CYMBOPOGON SCHOENANTHUS) AS APPROPRATE TECHNOLOGY FOR ENHANCE A HEALTH Salma Mohammed Alameen
		135: UNSATURATED FATTY ACID HINDERED PORPHYROMONAS GINGIVALIS PATHOGENICITY FACTORS Sara Ahmed Eltigani, Mohamed Mutasim Eltayeb, and Jiro Arima

		42: APPLICATIONS OF DNA FINGERPRINTING IN IDENTIFICATION OF DISASTER VICTIMS IN SUDAN Zeinab Adam Abakar Mohamed 131: A COMMUNIYY-ORIENTED MOBILE APPLICATION MODEL FRAMEWORK TO CONTROL PRODUCTS PRICE Mathani Hajali	
4 - 5	KEYNOTE TALK (8) APPROPRIATE TECHNOLOGY MANIFESTO AND TECHNOLOGY POLICY Speaker: John Trimble Moderator: Marcel J. Castro Sitiriche		
5 – 6 PM	CLOSING SESSION Chair: Gada Kadoda		

Saturday 26 November: CULTURAL PROGRAM