

The 4th Annual Assembly and INTERNATIONAL CONFERENCE of The Welding Federation

UEM, MAPUTO, MOZAMBIQUE | 22 - 24 JUNE 2026

"EXPLORING SUSTAINABLE MANUFACTURING IN AFRICA"

Anfitriões da Conferência



Em Colaboração com:

Patrocinadores:



sasol



Parcerias da Conferência:



Parcerias de Media:

PROGRAM DRAFT

TIME (hrs)	Pre-Assembly : Sunday y 21 st June 2026	VENUE
08:00-23:00	Guest Arrivals	
09:00 – 17:00	Warm Up- TWF Continental Welding Competition - Expanding Elasticity Welding Skills Africa	CFPM
	TWF Board Meeting	OH
	TWF Board- TWF Assembly 2026 Management Committee Meeting	OH
	TWF Board-AIMO Board Meeting	OH
	TWF -Assembly Technical Committee Meeting	OH
	TWF Competition Committee Meeting	OH
	TWF Education and Research Board Meeting	OH
	TWF Board visit to conference venue	OH

Day One: Monday 22nd June 2026

TIME	Program/Item	VENUE
08:30 -09:00	Arrival, Registration, Accreditation	UEM
08:00 – 09:30	TWF Education and Research Council Meeting	UEM
09:00 – 17:00	TWF Welding Competition 2026 - Expanding Elasticity of Welding Skills Africa	CFPM
09:15 - 10:45	Opening Ceremony	UEM
09:15- 09:20	Setting the Tone: President, Associação Industrial de Moçambique (AIMO)/Board-TWF Moz	UEM
09:20- 09:25	Welcome Remark Prof Manuel. G. Júnior Chancellor of University UEM	UEM
09:25- 09:40	Opening Address – TWF President	UEM
09:40-10:00	Industry Lecture – Review and Proposal of Strategic Policy Initiatives for Advancing African Manufacturing Content in Africa’s Energy Ecosystem Engr Wole Ogunsanya, President, African Local Content Association (ALCA)	
10:00-10:20	Introduction TWF Mozambique Rogerio Samo-gudo President, TWF Moz	UEM
10:20-10:40	Keynote Address: Unlocking Deeper Local Content Dimensions in Mozambique’s Energy Sector- Deploying Welding as a Tool for Increased Values Creations His Excellency Estêvão Pale, Hon Minister of Mineral Resources and Energy, Mozambique	
10:40-11:00	Official Opening / Declaration	UEM
11:00-11:20	Opening Remarks- TWF CWC 2026- Expanding Elasticity of Welding Skills Africa	UEM
11:20-11:30	Vote of Thanks & Closing Remarks	UEM
11:30-11:50	Group Photographs	UEM
11:50-12:00	Team Break	UEM
Session 1:		
12:30- 12:50	Invited Address: Welding Capacity in Gabonese Republic- Linking Training, Local Content and Economic Diversification Mr Javier Riera Hon Consul, Gabonese Republic	UEM
12:50- 14:00	Session 1: Deepening Materials Manufacturing Supply Chain Integration in Africa’s Industrial Ecosystem- Critical Review of Challenges and Proposals Moderator- Prof Iman El-Mahallawai	UEM
14:00 -15:00	Lunch Break	UEM
15:00- 16:00	Annual Assembly (Representative of Member Bodies/Chapters Only)	UEM
16:30- 20:30	Welcome Cocktail (By invitation only)	UEM

Day Two: Tuesday 23rd June 2026

TIME	Program/Item	VENUE
09:00 – 17:00	TWF Welding Competition 2026- Expanding Elasticity Welding Skills Africa	CFPM
Session 2: Materials Processes and Joining		UEM
Moderators: Doctor Paxis Roque, Eng. and Lic. Zefanias Mabote		
08:30 - 08:50	Hydrogen-Assisted Cracking in Weld-Adjacent ASTM A106 Carbon Steel Pipeline Exposed to Converted-Gas Service Hamed Abdel-Aleem ^{a*} , Mohamed Ragab ^b , A.M. Hanafy ^c	UEM
08:50 – 09:10	Cost Reduction in TIG Welding in Mozambique by Incorporating Local Blue Hydrogen into Shielding Gas Mixtures Presenter: José Luís Paulo Fernando & Afonso Daniel Macheuca Faculty of Engineering, Eduardo Mondlane University (UEM), Maputo, Mozambique	UEM
09:10 – 09:30	Analysis Of Corrosion Resistance Behavior In 300m Steel Welded Via Laser Process. Presenter: Rosinei Batista Ribeiro, Antonio Jorge Abdalla, Jorge Luiz Rosa, Jonas Valente Matsinhe	UEM
09:30 – 09:50	Mechanical Performance and Distortion Analysis of Car Chassis Steel Welded Using Gas Arc and Oxy-Acetylene Welding Presenter: S.U Idi , S.O .Okuma	UEM
09:50 – 11:10	Short Break	UEM
Session 3: Panel- Engineering of Materials		UEM
Moderator- Engr Marco Correia		
11:10-12:30	Topic- Exploring Materials Engineering Capabilities in Africa: A Critical Focus on Manufacturing of High Value Components for Offshore, Electric Vehicles and Mining Industries	UEM
12:30- 13:50	Lunch break	UEM
Session 4 : Digital Driven Manufacturing		UEM
Moderators: Doctor Gonçalves Doho, Eng. and Master Roxan Cadir, Eng.		UEM
13:50- 14:10	High-Performance Computing for Digital Twins used in Manufacturing Presenter: Calisters Hwendere	UEM
Session 5 : Governance, Policy and Entrepreneurship		UEM
Moderators: Professor João Chidamoio, PhD, Engineer, and Dr. Milagre Manhique, PhD, Engineer.		UEM
14:10 -14:30	Forging The Future-African Content Capacity Presenter- Ayo Adeniyi ,TWF Africa	UEM
14:30 -14:50	Building Local Capacity: Empowering Host Nations through Education and Project Synergy Presenter: Ivan Mijocevic, IDS Germany	UEM
14:50-15:10	Governance, Policy and ESG-Driven Entrepreneurship for Sustainable Manufacturing in Africa Presenter: Clever Matigimu	UEM
Session 6: Human Capacity Development		UEM
Moderators: Professor AbdulGaniyu Funsho Alabi		UEM
15:10-15:30	Welding Training Opportunities in Mozambique	UEM

	Presenter: IFPELAC	
15:30-15:50	Critical Concerns in Advancing NDT Practices in Africa's Manufacturing Landscape Presenter: Hennie de Wet, RITC Moz	UEM
15:50-16:10	Human Factors Capability Development for Industry 5.0 Manufacturing in Africa Presenter: Daniel Obioma Thomas ^{1*} , Kelechi Daniel Ekeke ⁴	UEM
16:10-16:30	Welded Arts & Crafts in Africa-Fire, Form & Forgotten Flame Presenter-Lanston Idris	UEM
16:10- 16:30	Tea Break	UEM
Session 7 : Sustainable Models in Manufacturing		UEM
Moderators: Professor Dr. Júlio Tsamba, Engineer and Dr. Idilson Nhamage, Engineer.		UEM
16:30- 16:50	Strategic Industrial Targeting (SIT) and Environmental Outcomes in African Manufacturing: Linking Energy Efficiency to Carbon Intensity Presenter: José Ngale	UEM
16:50-17:10	Strategic Development and Optimization of Manufacturing-Based SMEs in Africa Presenter: AbdulGaniyu Funsho Alabi	UEM
17:10-17:30	Utilisation of Carbonised Dry Coconut Waste for Briquette Production: A Sustainable Alternative to Charcoal Presenter: Jessica Ussumane Taqedir	UEM
17:30 – 17:50	The Failure Analysis Locally Manufactured Train screw coupling (Link Failure). Presenter: M.A. Morsy	UEM
17:50-18:00	Summary Day 1 and 2	UEM
18:00	Close	UEM

Day Three: Wednesday 24th June 2026

TIME	Program/Item	VENUE
09:00 – 17:00	TWF Welding Competition 2026 - Expanding Elasticity Welding Skills Africa	CFPM
08:00- 11:00	Industry Visitation (By invitation only)	LIMAC
Session 8: Materials Processes and Joining		
Moderators: Doctor Paxis Roque, Eng. and Lic. Zefanias Mabote		UEM
11:00 – 11:20	Examining Impact of materials Inclusion on the Fatigue failure of galvanized Bolts in Power Plant Fans Presenter: Hamed Abdel-Aleem	UEM
11:20 – 11:40	Effect of Phosphatizing as a Paint Pretreatment on the Corrosion Kinetics of Welded API 5L X65 Steel Joints for Pipelines Presenter: Massingue, Firmino; Cumbane, António and Manhique, Arão	UEM
11:40 – 12:00	Green-Synthesized Iron Oxide Nanoparticles for Sustainable Material Processing and Joining in Agro-Industrial Manufacturing Presenter: Evalyne Mary Kansiiime	UEM
12:00 -13:00	Lunch Break	Restaurant
Session 9: Sustainable Manufacturing		
Moderators: Professor Dr. Jonas Matsinhe, Engineer, and Dr. Emília Comé, Engineer.		UEM
13:20 – 13:40	Smart operations and Human Factors Engineering (HFE): catalysts for sustainable manufacturing transformation in Africa Presenter: Daniel Obioma Thomas	UEM

13:40 – 14:00	Proven Sustainable Advanced Manufacturing: For Africa, By Africans Presenter: Devon Hagedorn-Hansen, HH Industries	UEM
14:00 – 14:20	Strategic Pathway to Industrialization, Employment Creation, and Economic Transformation. Presenter: Ssezibwa Ronald, Herve Yimgna, Michael Vallez	UEM
14:20 – 14:40	ESG-DRIVEN Lifecycle Costing for Sustainable Manufacturing Systems Presenter: Benedict Anayochukwu Ozurumba, Chijindu Promise Ubah	UEM
14:40 – 15:00	Short break	UEM
Session 10 Materials Joining and Processing		
Moderators: Doctor Paxis Roque, Eng. and Lic. Zefanias Mabote		
15:00 – 15:20	Optimal FPSO system reliability to leakage risks due to environmental loads Presenter: José Alcebiádes Ernesto HLUNGUANE Eric CHATELET	UEM
15:20 – 15:40	Microstructural, Mechanical, and Economic Assessment of FCAW Dissimilar Butt Joints between AISI 1020 Carbon Steel and AISI 201 Stainless Steel under Different Heat Inputs Presenter: Hamed Abdel-Aleem ^{a*} , Mahmoud Abbas ^b , Gamal Bastawesy ^c ,	UEM
15:40 – 16:00	High-impact synergies and sustainability of green chemistry and artificial intelligence towards agricultural practice in Africa. Presenter: Anyanwu Chidinma Gogo	UEM
16:00 – 16:20	Fire Risk Analysis at Gigawatt Mozambique Thermal Power Plant, S.A. (2023-2024) Presenter: Hiani Francisco António Pondeca ¹ , Ramalho Joaquim Pondeca ^{2*}	UEM
16:20 – 16:40	Short break	UEM
Session 11 Sustainable Manufacturing		
Moderators: MSc Leila Jossias, Eng. ; Berino Silinto		
16:40 – 17:00	A Life Cycle and Energy-Based Framework for Sustainable Refrigerant Selection in Industrial Manufacturing Systems Presenter: Jorge Nhambiu, José António Nhacutove	UEM
17:00 – 17:20	Development of a multifunctional thermoelectric power plant prototype as an energy alternative for rural areas in Mozambique Presenter: Edilton I. Chitata ¹ and Zefanias Mabote	UEM
17:40 – 19:40	Closing Ceremony	UEM