



**1st Workshop on Eco-Tanning processes in Kenya and the East African Region
17-18th August, 2023 Best Western Plus Meridian Hotel, Nairobi-Kenya**

PROGRAMME DAY 1

	REGISTRATION OF PARTICIPANTS Secretariat
OPENING SESSION	
	OPENING PRAYERS Dr. Richard Oruko Ongong' (Coordinator, Directorate of Veterinary Services)
0800 - 0850	WELCOMING REMARKS Dr. George Okwadha (Coordinator, The Technical University of Kenya (TUK)) Mr. Robert Njoka - Chairman, Kenya Tanners Association Mr. Glen Wilson, United Nations Conference on Trade and Development (UNCTAD) Elzette Henshilwood, South South North (SSN) Mr. Ivan Král', United Nations Industrial Development Organization (UNIDO) Dr. Menjo – Presidential Economic Advisor – Head of Agriculture Sector Prof. Austin Aluoch – Director of Research and Knowledge Exchange (TUK) Prof. Alfred Isaac Orina – Deputy Vice Chancellor- Research and Technology Development (TUK)
0850 - 0910	OPENING SPEECH The Vice Chancellor, The Technical University of Kenya (TUK) Permanent Secretary, State Department of Livestock
0910 - 0920	GROUP PHOTO
THEME I: Hides and skins production and eco-preservation technologies	
Chair/Rapporteur	Dr. Richard Oruko /Dr. Henry JO Ogola
0920 - 0930	Brief overview of hides and skins, and leather trade in Kenya and the EA region: Opportunities and challenges – <i>Mr. Joseph Mbogo (Director of Leather Development in Kenya)</i>
0930 - 0940	The future of the leather industry in Kenya and the EAC region – <i>Dr. Issack M. Noor (CEO - Kenya Leather Development Council (KLDC))</i>
0940 - 0950	Current status of the Livestock genetic pools, distribution and environmental impact on the quality and size of hides and skins and leather in Kenya and EAC region - <i>Dr. John Oloo Odiaga (Senior Lecturer - Jaramogi Oginga Odinga University of Science and Technology)</i>
0950 - 1000	Current eco-preservation practises of hides and skins and their environmental challenges – <i>Dr. Richard Oruko Ongon'g (Assistant Director Leather Development – State Department for Livestock Development, Kabete)</i>
1000 - 1010	Solid salt pollution management along the leather value chain (Preservation salt recovery and recycling) – <i>School of Chemistry (TUK)</i>
1010 - 1020	Question and Answer Session - Theme I
1020 - 1035	HEALTH BREAK
THEME II: Eco-tanning technologies and leather manufacturing strategies	
Chair/Rapporteur	Dr. George Okwadha / Ms. Marygoretty Chepng'etich
1035 - 1045	Innovative enzymatic removal and recovery of hair from a pelt (Beamhouses processes) - <i>Prof. Paul Shiundu (The Vice Chancellor & Professor of Chemistry, The Technical University of Kenya)</i>
1045 - 1055	Wet-white leather and Non -inorganic dyes (tan , crust and leather finishing) - <i>Dr. Arthur Onyuka (Assistant Pricipal Research Scientist - KIRDI)</i>



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1055 - 1105	Non-conventional and innovative leather tanning technologies (Organic tanning) – <i>Mr. Newton Owino (Director, Alisam Products Development and Design, Kisumu)</i>
1105 - 1115	Eco-sustainable footwear technology and leather products manufacturing – <i>Mr. John Otieno Okumu (Manager, Promotions and Marketing – KLDC)</i>
1115 - 1130	Question and Answer Session - Theme II
THEME III: Circular economy of tannery wastes/ modernization of tannery machinery	
Chair/Rapporteur	Dr. Henry Ogola /Kimari Wamaitha
1130 - 1145	Enzymatic degradation of hair wastes from tannery industries effluent - <i>Dr. Arthur Onyuka, (Assistant Pricipal Research Scientist - KIRDI)</i>
1145 - 1155	Microbial recovery of Lime from beamhouse effluent – <i>Dr. George Okwadha, Senior Lecturer (Water and Environmental Engineering, TUK)</i>
1155-1205	Recycling of solid leather wastes into fertilizer – <i>Dr. Joel Mwondo, (Leather Department, UON)</i>
1205-1215	Bioremediation of chromium effluent and biogas generation – <i>Dr. Henry JO Ogola, Senior Lecturer (School of food and Agricultural Sciences, JOOUST)</i>
1215-1225	Adsorption of beamhouse effluents using citrus/Lime wastes - <i>Dr. Richard Oruko Ongon’g, Assistant Director Leather Development (State Department for Livestock Development, Kabete)</i>
1225-1235	Sustainable modernization and upgrading of tanning machinery and integration renewable energy in leather industry - <i>Prof. Odera, Director (CEI&TF),TUK & Eng. Makaa, Sch. of Electrical & Electronic Engineering, TUK</i>
1235-1250	QA session- Theme III
1250-1330	LUNCH BREAK
FIELD VISIT	
Chair/Rapporteur	Dr. Richard Oruko / Mr Njoka
1400 -1630	Visiting Tannery/Leather goods factory
	END OF DAY ONE

PROGRAMME DAY 2

	ARRIVAL OF PARTICIPANTS Secretariat
	OPENING PRAYERS Dr. Richard Oruko Ongong’ (Coordinator, Directorate of Veterinary Services)
THEME IV: Governance and regulations for Tanneries	
Chair/Rapporteur	Mr Robert Njoka/Ms. Marygoretty Chepng’etich
	Kenya Revenue Authority (KRA) – Tax incentives for sustainable leather tanning, manufacturing or recycling (Green Technology) industries. – <i>Ms Grace Lekasi, Customs Department (KRA)</i>
	Sustainable manufacture of Leather, Environment protection and Management of tanneries – <i>Mr. David Ong’are, Director, Compliance, Enforcement & Field Operations (NEMA)</i>
	Sustainable Occupational Safety and Health Management in tanneries – <i>Dr. Andrew Muruka, (Deputy Director/ Head National Institute for Occupational Safety and Health - Ministry of Labour and Social Protection)</i>
0830 - 0930	Sustainable tannery effluent discharge and sludge disposal – <i>Eng. Nahason Muguna, Manager Director, Nairobi County Water & Sewerage Company (NCWSC)</i>



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	Sustainable integration of property rights and innovation protection for leather design/ products – Mr. John Onyango, (Director KIPi)
	Sustainable use of solar as alternative energy in the tanning Industry – Eng. Benson Mwakina (Director, Renewable Energy)
0930 - 1000	Question and Answer Ssession - Theme IV
1000 - 1020	HEALTH BREAK
THEME V: Tannery audit and certification for international leather/products trade	
Chair/Rapporteur	Dr. George Okwadha/ Ms. Kimari Wamaitha
1020 - 1050	<ul style="list-style-type: none"> a. Tannery audit and certification – Ms. Jennifer Thorpe, (Leather Working Group) b. Traceability and eco-certification of Livestock & their by-products (hides and skins, leather and leather products) (Use of GPS technology)- Dr. David Ojigo, African Leather and leather product Institute (ALLIPI)/ Dr. Okoth Ayugi, Senior Lecturer (Sch. of Surveying & Spartial Sciences, TUK) c. The green leather chemicals - ALLIPI
1050 - 1110	Question and Answer Ssession - Theme V
THEME VI: Marketing, Exportation and Auxiliary Support for Hides, Skins, Leather/products Trade and Industrial Growth Support	
Chair/Rapporteur	Dr. Richard Oruko Ongon’g/ Ms. Marygoretty Chepng’etich
1110 - 1230	<ul style="list-style-type: none"> a. Regional Trade and tarrifs in hides and skin, leather and leather products – Mr. Edward Owango, (Director of Economic Affairs, Ministry of East African Community-Kenya) b. Hides & Skins and leather marketing and export (branding)- KEPROBA c. Marketing of leather and leather products support- Mr. Kassim Were, Kenya National Chamber of Commerce & Industry (KNCCI) d. Policy lobby group for leather tanning and manufacturing industries in Kenya - Ms. Miriam Bomett, Deputy Head of Policy, Kenya Association of Manufacturers (KAM) e. International market for organic tanned leather/products- Mr. Newton Owino /Tasha Nathanson – (Founder 7Leagues.com-Canada) f. Sustainable integration of property rights and innovation protection for leather design/ products – Mr. John Onyango, Managing Director (KIPi) g. Beef and leather marketing in the pastoral regions in Kenya – Esther Kamau, Country Director (Heifer International-Kenya)
1230-1300	Question and Answer Session - Theme VI
1300-1400	LUNCH BREAK
TUK WORKSHOPS VISIT	
Chair/Rapporteur	Dr. George Okwadha / Ms. Kimari Wamaitha
1400-1600	The Technical University of Kenya Workshops (Mechanical and Electrical Departments)
	CLOSING THE WORKSHOP IN TUK MAIN HALL (The Vice Chancellor-TUK)