



**1<sup>st</sup> Workshop on Eco-Tanning processes in Kenya and the East African Region  
19-20<sup>th</sup> July, 2023 Best Western Plus Meridian Hotel, Nairobi-Kenya**

**PROGRAMME DAY 1**

	<b>REGISTRATION OF PARTICIPANTS</b> Secretariat
<b>OPENING SESSION</b>	
	<b>OPENING PRAYERS</b> Dr. Richard Oruko Ongong' (Coordinator, Directorate of Veterinary Services)
0800 - 0850	<b>WELCOMING REMARKS</b> 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) Kaarl Evan, 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	<b>OPENING SPEECH</b> <b>Vice Chancellor, The Technical University of Kenya (TUK)</b> <b>Permanent Secretary, State Department of Livestock</b>
0910 - 0920	<b>GROUP PHOTO</b>
<b>THEME I: Hides and skins production and eco-preservation technologies</b>	
<b>Chair/Rapporteur</b>	<b>Dr. Richard Oruko /Dr. Henry JO Ogola</b>
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	<b>HEALTH BREAK</b>
<b>THEME II: Eco-tanning technologies and leather manufacturing strategies</b>	
<b>Chair/Rapporteur</b>	<b>Dr. George Okwadha /</b>
1035 - 1045	Innovative enzymatic removal and recovery of hair from a pelt (Beamhouses processes) - <i>Prof. Paul Shiundu (Professor of Chemistry &amp; VC (Ag. 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>
1055 - 1105	Non-conventional and innovative leather tanning technologies (Organic tanning) – <i>Mr. Newton Owino (Director, Alisam Products Development and Design, Kisumu)</i>



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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 I
<b>THEME III: Circular economy of tannery wastes/ modernization of tannery machinery</b>	
<b>Chair/Rapporteur</b>	<b>Dr. Henry Ogola /Kimari Wamaitha</b>
1130 - 1145	Enzymatic degradation of hair wastes from tannery industries effluent - <i>Dr. Arthur Onyuka (Assistant Principal 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, Eng. Makaa, TUK)</i>
1235-1250	QA session- Theme III
1250-1330	<b>LUNCH BREAK</b>
<b>FIELD VISIT</b>	
<b>Chair/Rapporteur</b>	<b>Dr. Richard Oruko / Mr Njoka</b>
1400 -1630	Visiting Tannery/Leather goods factory/
	<b>END OF DAY ONE</b>

**PROGRAMME DAY 2**

	<b>ARRIVAL OF PARTICIPANTS</b> Secretariat
	<b>OPENING PRAYERS</b> Dr. Richard Oruko Ongong' (Coordinator, Directorate of Veterinary Services)
<b>THEME IV: Governance and regulations for Tanneries</b>	
<b>Chair/Rapporteur</b>	<b>Mr Robert Njoka</b>
0830 - 0930	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 &amp; 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>
	Sustainable tannery effluent discharge and sludge disposal – <i>Eng. Nahason Muguna (Manager Director, NCWSC (Nairobi County Water &amp; Sewerage Company)</i>
	Sustainable integration of property rights and innovation protection for leather design/ products – <i>Mr. John Onyango, Director KIPI</i>



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