

E-waste Academy for Scientists (EWAS) 2022

Managing valuable and hazardous materials in e-waste: the route to circularity

Final Programme

DAY 1 - Saturday, 27th August 2022

ALL DAY - Arrival of participants at Kilmurry Lodge Hotel Dublin Road, Castletroy, Limerick

H20:00 Welcome Dinner at Kilmurry Lodge Hotel, Flannagan's Restaurant

DAY 2 - Sunday, 28th August 2022 – Setting the Frame: An Introduction to operational, environmental, technical and public health aspects of the e-waste management

@UL Campus, Millstream Common Room

9:00 – 9:10	Housekeeping - EWAS 2022	UNITAR, UNIDO, UL
9:10 – 10:15	Roundtable of participants: <i>Research Topic & Main Expectations</i>	ALL
10:15 – 10:45	<i>Tea/Coffee break (at The Pavilion, UL)</i>	
10:45 – 12:30	Setting the scene: E-waste challenge Definitions, e-waste management, materials flow, legal overview.	Otmar Deubzer, UNITAR
12:30 – 13:30	LUNCH BREAK at The Pavilion, UL	
13:30 – 15:30	Environmental & public health issues (Process related emissions and impact + informal recycling processes related impacts and emissions. Also looking at 'worst practices' and risks associated)	Stefan Salhofer, BOKU
15:30 – 16:00	<i>Break</i>	
16:00 – 16:30	Pitch on E[co]work	Dea Wehrli, EMPA
16:30 – 17:30	Introduction of the <i>WEEEkathon</i> concept and method + introduction of the groups	BOKU + UNITAR + ALL

DAY 3 - Monday, 29th August 2022 - Valuable Raw materials / Hazardous materials in e-waste

@UL Campus, Millstream Common Room

9:00-9:15	Formal Opening of E-Waste Academy and Welcome Address from UL President	Prof Kerstin Mey, President, University of Limerick Colin Fitzpatrick, UL Otmar Deubzer, UNITAR / Carlos Hernandez, UNIDO
9:15 – 10:30	Recovering valuable raw materials in e-waste: Critical raw materials / Technological frontiers of e-waste recycling	Otmar Deubzer, UNITAR
10:30 – 11:00	<i>Tea/Coffee break – in room</i>	
11:00 – 11:30	Recovering valuable raw materials in e-waste [continue]	Otmar Deubzer, UNITAR
11:30 – 12:30	<i>E-waste in developing countries: E-waste management and value recovery</i> <i>Flat Panel Display plastics: Combining XRF & Data Extraction as a sorting tool</i>	Saman Ilankoon Cecilia Chaine
12:30 – 13:30	LUNCH BREAK at The Pavilion, UL	
13:30 – 15:00	Focus on POPs and hazardous materials - safety issues	Adrien Specker, WRF
15:00 – 15:30	<i>Break</i>	
15:30 – 16:30	<i>Proposal of thermal plasma technology as a destructive and irreversible transformation of WEEE brominated flame retarded plastics</i> <i>Biogenic synthesis of value-added metal-graphitic composites from electronic waste.</i>	Brenda Natalia Lopez Nino Astha Upadhyay
16:30 – 17:30	WEEEkathon group work: definition of topics and discussion	BOKU + UNITAR + ALL

DAY 4 - Tuesday, 30th August 2022 - Transboundary movements of e-waste / existing practices of e-waste management

@UL Campus, Millstream Common Room

9:00 – 10:00	Global transboundary movements of e-waste: The Basel Convention legal framework / quantification of global and regional flows / illicit trafficking	Elena D'Angelo, UNITAR
10:00 – 11:00	Trafficking of e-waste in roll-on roll-off vehicles Ireland - West Africa	Chidinma Muoneke, University of Limerick
11:00 – 11:30	<i>Tea/Coffee break – in room</i>	
11:30 – 12:30	<i>Sustainability transitions in electronic waste management: insights from field studies in Ghana, Brazil, and China</i> <i>Towards Responsible and Sustainable e-waste Management in Cuenca/Ecuador</i>	Alice Frantz Schneider Gabriela Carolina Sucozhañay Idrovo
12:30 – 13:30	LUNCH BREAK at The Pavilion, UL	
13:30 – 14:30	LATAM Regional Monitor	Michelle Wagner, UNITAR
14:30 – 15:00	<i>Estimation of E-waste generation in Honduras</i>	Nelly Cáliz Mendoza
15:00 – 15:30	<i>Break</i>	
15:30 – 16:30	<i>Management of E-waste in the Área Metropolitana de Buenos Aires, Argentina: problems and challenges</i> <i>E-waste management in Costa Rica: a perspective from Prosic</i>	Mariana Saidón Valeria Castro Obando
16:30 – 17:30	WEEEkathon: consultation session on research ideas / drafting of presentation	BOKU + UNITAR + ALL

DAY 5 - Wednesday, 31st August 2022 – Field trip

Bus to Cork - Collection from Kilmurry Lodge Hotel at 8:00 am

8:00 – 18:30	<p><i>Travel from Limerick to Cork</i></p> <p>Wisetek Glanmire Reuse Visit https://wisetek.net/</p> <p><i>Travel across Cork and eat packed lunch</i></p> <p>Wisetek Blackpool Refurbishment/Dismantling Visit</p> <p><i>Travel from Cork to Limerick</i></p> <p>Confirm (UL) visit for FPD Recycling visit. https://confirm.ie/</p> <p><i>LUNCH BOX will be provided to participants for the field trip</i></p>	

DAY 6 - Thursday, 1st September 2022 - Road to circularity: eco-design, data safety + informal sector

@UL Campus Millstream Common Room

9:00 – 10:00	Design for Sustainability at Logitech	Padraig Murphy, Logitech
10:00 – 11:00	R2 Standards - supporting circularity and the issue of data safety	Corey Dehmey – SERI
11:00 – 11:30	<i>Tea/Coffee break – in room</i>	
11:30 – 12:30	<i>The Role of Voluntary Standards for Transnational Governance of E-waste Management</i> <i>Repurposing of retired electric vehicle batteries in stationary storage systems</i>	Macy Toal Narjes Fallah
12:30 – 13:30	LUNCH BREAK at The Pavilion, UL	
13:30 – 15:00	<i>The role of standardization to improve the sustainable environmental performance on WEEE recyclers.</i> <i>Integrating the informal recycling sector into the discarded LCD/LED monitors management. The case study of Santiago de Chile</i> <i>Sociotechnical study of interventions to reduce chemical risks in the informal e-waste management sector: a case study in Buenos Aires, Argentina</i>	Luis Marín Roldán Nicolás Labra Cataldo Sofía Lara Schlezak
15:00 – 15:30	<i>Break</i>	
15:30 – 16:00	E[co]work – co-working spaces for (informal) dismantlers in the e-waste sector	Dea Wehrli, EMPA
16:00 – 16:30	<i>End-of-life LED lamps recycling using a heterotrophic microorganism grown on an inexpensive carbon source</i>	Mehdi Golzar Ahmadi
16:30 – 17:30	WEEEkathon group work: refining of ideas / consultation sessions	BOKU + UNITAR + ALL

SOCIAL ACTIVITY - H 17:30 – 20:30 Nature walk + BBQ at UL campus

DAY 7 - Friday, 2nd September 2022 - Road to circularity: consumers' behaviors, collection strategies

@UL Campus, Millstream Common Room

9:00 – 10:00	Consumer's recycling and disposal behaviour - modelling e-waste production perspectives EEE 2 WEEE project in Ireland - key findings	Yvonne Ryan, University of Limerick
10:00 – 10:30	<i>Tea/Coffee break – in room</i>	
10:30 – 12:00	Practical examples of- take-back systems or returning devices: experiences from countries / regional level	Stefan Salhofer, BOKU + (European perspective / Michelle Wagner, UNITAR ; Ireland / Colin Fitzpatrick- UL ; Switzerland / Dea Wehrli EMPA; LATAM perspective / Carlos Hernandez UNIDO)
12:00 – 12:30	<i>You Only Demanufacture Once (YODO): WEEE retrieval using unsupervised learning</i>	Chuangchuang Zhou
12:30 – 13:30	LUNCH BREAK at The Pavilion, UL	
13:30 – 15:00	<i>Exploring Circular Economy Opportunities in E-waste Management</i>	Constanza Berron
	<i>Smart cities and E-waste Management: Way Forward</i>	Harveen Kaur
	<i>Electrolytic recovery of LiCoO₂ from spent battery waste</i>	Rocío Estefani Condori Ventura
15:00 – 15:30	<i>Break</i>	
15:30 – 16:30	<i>Contributions of university research in promoting the management of WEEE in Venezuela</i>	Vanessa Hernández Quijada
	<i>Value Recovery from e-waste: A potential opportunity towards a circular economy for end-of-life Mobile Phones</i>	Moises Gómez Soto
16:30 – 17:30	WEEEkathon group work: consolidation of final ideas / finalization of presentations	BOKU + UNITAR + ALL

SOCIAL ACTIVITY H 19:00 – 21:00 Evening at CASK – Kilmurry Lodge Hotel

DAY 8 - Saturday, 3rd September 2022 - Conclusion of the WEEEkathon: final presentation by participants' groups + award ceremony

@UL Campus, Millstream Common Room

9:00 – 9:15	Introduction to experts' panel and winner selection criteria	Stefan Salhofer, BOKU
9:15 – 12:00	WEEEkathon groups' presentations	ALL
12:00 – 12:30	Feedback from jury, certificates and wrap up Conclusion of the event	UNITAR, BOKU, UNIDO, University of Limerick
12:30 – 13:30	LUNCH BREAK at The Pavilion, UL	
	DEPARTURE OF PARTICIPANTS	

DAY 9 - Sunday, 4th September 2022

DEPARTURE OF PARTICIPANTS (ALL DAY)

LOGISTICS NOTES:

Meals

All participants and speakers will be staying at the Kilmurry Lodge Hotel in Limerick

Breakfast + dinners at the hotel are covered by the organizers from 27th August (only dinner) to 4th September (only breakfast). Social events are also covered by the organizers

Any other extra activity is not included and will be at participants' own expense

Lunches will be provided at the Pavilion, UL – participants will be provided with a token for each meal. The lunch box on the Field Trip Day will be provided by the hotel – and is also covered by the organizers.

Tea/Coffee breaks in the morning will be served either in the room or at the Pavilion.

Breaks in the afternoon will be free - there is a small grocery shop on campus at the student centre. You can see the detailed map attached (grocery shop is point 16 on map; the Millstream Common Room is point 46 and the Pavilion is point 36).

Transportation

From the Kilmurry Lodge Hotel to the UL campus is walking distance (about 20-25 minutes walking) – we'll be meeting every morning at the hotel entrance at 8.15am to walk together to the Campus, for those who wish to join, especially on the morning of 28th to guide you to the conference room!

Public transportation is not needed for the purpose of the Academy – should you wish to go to the center you can buy tickets upon boarding the bus. A single trip to the city center costs less than €2.50

Transportation from/to the airport

<https://www.eireagle.com/>

<https://www.transportforireland.ie/>

Internet Access

For those from universities, please active your EDUROAM account before your visit see: [Home - eduroam.org](https://www.eduroam.org)

If you do not have access to EDUROAM the visitor account set up for UL Connection located at: [Guest Connection | University of Limerick \(ul.ie\)](https://www.ul.ie/guestconnection)

Dress Code at the EWAM

Participants & experts are recommended to wear comfortable business casual clothes. For the field trip comfortable clothes are preferable. Ireland can experience variable weather conditions, it is advisable to bring appropriate footwear for walking, a raincoat and umbrella are advisable.

Electrical appliances

Voltage: Please bring a UK travel adapter 320 Volts AC

Please bring any adapters if required.

Laptop

Please bring your own laptop as it will be required for group work exercises during the EWAS.

Currency

Official currency in Ireland is EURO

Pharmacies

Scanlon's Pharmacy is located across the road from the hotel and opens until 10pm

Free time

The University has a 50-metre swimming pool, climbing wall, gym etc. see:

<https://www.ulsport.ie/ularena/>

Across the road from the Kilmurry Lodge is a shopping centre <https://castletroytowncentre.com> and cinema <https://www.odeoncinemas.ie/cinemas/limerick/>.

Useful contacts

Full Name	Description	e-mail	telephone number
Michelle Wagner	EWAS 2022 Organizer-UNITAR	michelle.wagner@unitar.org	
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Adrien Specker	EWAS 2022 Organizer - WRF	adrien.specker@wrforum.org	
Local Hospitals	Emergency		999 or 112
Local police	Emergency on Campus		+35361213333
UL Campus Security	General Assistance		+35361202700
Local Hospital	Emergency	University Hospital Limerick Dooradoyle, Limerick	+35361 301 111

Map of Locality: Killmurry Lodge Hotel, University of Limerick and Public Transport Points

