

**Chair:** Fran Kerton (fkerton@mun.ca) **Secretary:** Oleg Demchuk **Titular Members:** R. Adhikari, Z. Lerman, E. Lokteva, M. Park, H. Yashima, L. Zhuang **Associate Members:** R. Anand, V. Beschkov, S. Borsacchi, R. Burks, M. Peruzzini, B. Ranu **National Representatives:** Y. Choo, V. Kaucic, I. Mamun, B. Saha, L. Sydnes **Webpage:** E. Carignani

CHEMRAWN (Chemical Research Applied to World Needs) is a standing committee of IUPAC established in 1973

We focus on strategic activities related to IUPAC goals:

1. Address global issues incl. sustainability, health and equality
2. Advance research through scientific discussion
3. Assist industry towards sustainable development, wealth creation, and improvement of quality of life
4. Foster communication among chemists & organisations with emphasis on needs in emerging economies worldwide
5. Enhance education and the application of chemistry globally
6. Increase the diversity in IUPAC bodies, and enhance interdivisional collaborations

Sydney  
*Chem. International*  
Iss. 2, 2021, pp. 20



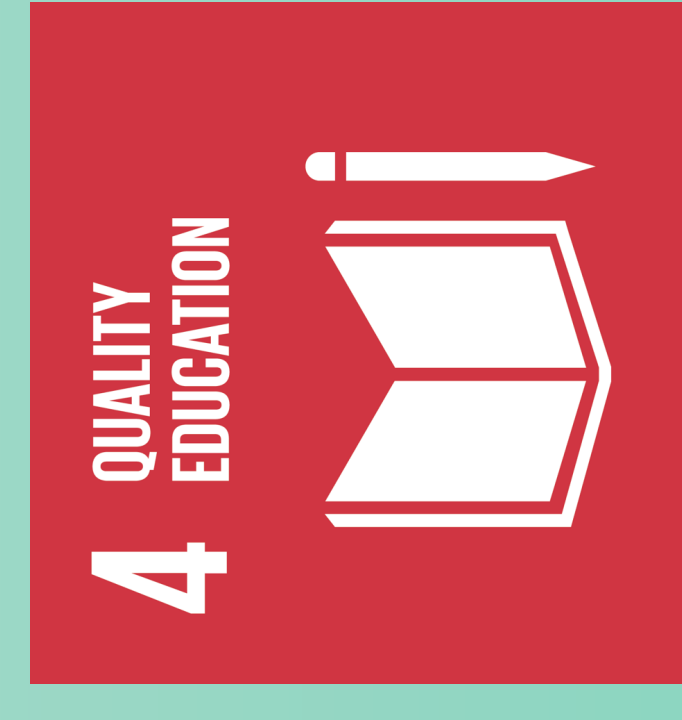
IUPAC CHEMRAWN XXII: E-waste in Africa  
Lagos, November 2021  
ELECTRONIC WASTE MANAGEMENT –  
RECYCLING AND DISPOSAL  
In partnership with the Chemical Society of Nigeria

- CHEMRAWN has organized many one of a kind cross-disciplinary events over the past 50 years
- They have been tied to the UN Sustainable Development Goals
- The recent conference was run in partnership with the Chemical Society of Nigeria in 2021
- Informing stakeholders on the complexity of e-waste and guidance as to how to address it
- Academic, industry, NGO and government involvement is critical for real change to be achieved

- Future Actions Committees work before, during and after conferences to develop project ideas that can be followed up as a contribution to solve the problem(s) discussed e.g. e-waste in 2021. This led to:

1. IUPAC e-waste resource page, <https://iupac.org/e-waste/> (scan QR code)
2. E-waste education project with Div. II, Div. VI, CCE, and COCI

- A special issue of *Chemistry Teacher International* will be published



SCAN ME

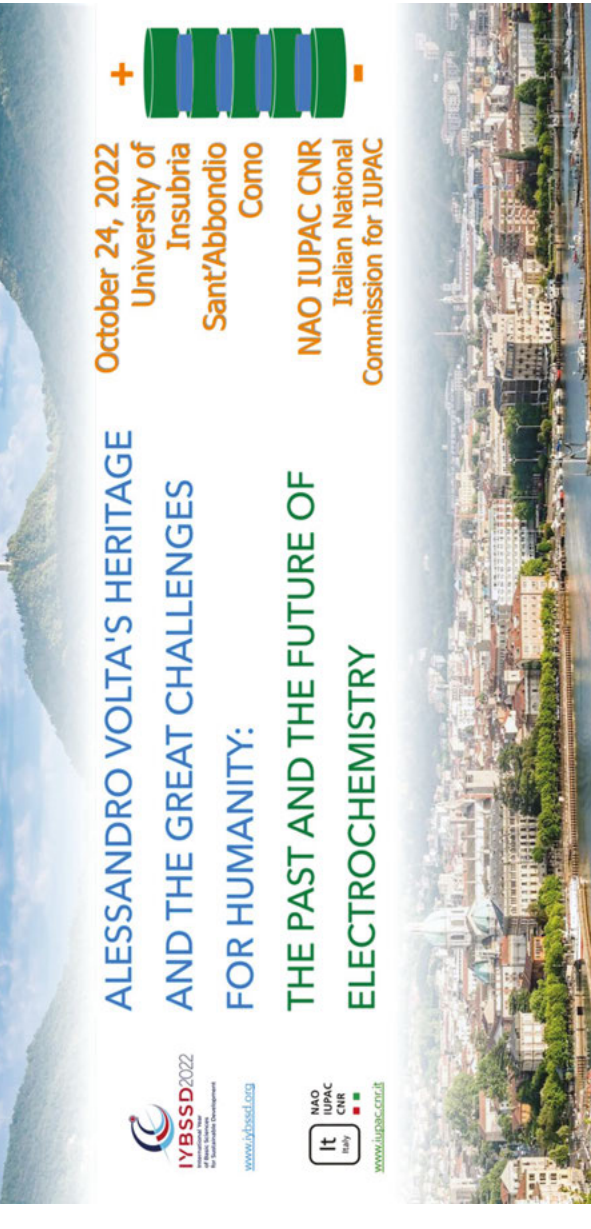
## Alessandro Volta: Still Fully Charged After 200 Years

By S. Borsacchi, M. Guidetti, A. Saracò,  
A. Mirazziti, A. Pizzi, A. M. Pizzi, F. Kerón,  
M. Peruzzini

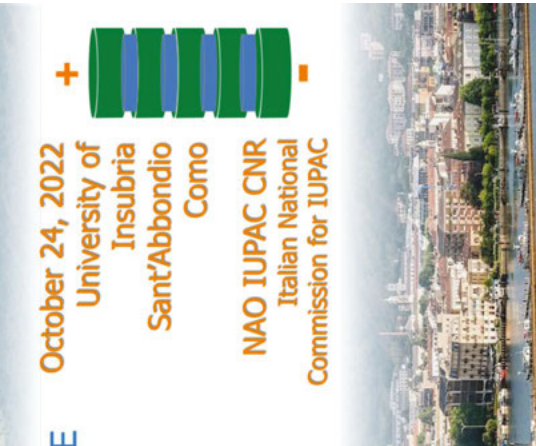
In the framework of the International Year of Chemistry (IYC2023), the Italian IUPAC IMC organized an open and seasonal conference (IUPAC CHEMRAWN XXII) on chemistry for humanity. The great challenges of the future, designed to highlight the role of chemistry as a key discipline in the development of society, are the most important scientific fields including two important scientific fields including chemistry and its Committee on Chemical Research (COCR) and its Commission on Chemical Research (CCR) (2018-2023), and in collaboration with the International Science Council.

At the center of the event was the great and creative scientific legacy of Alessandro Volta, who provided the first continuous and reproducible source of electricity and its applications. This great legacy had an impact on the development of chemistry and physics over the last two centuries and will continue to play an even more important role in the coming years.

The event was held on 24 October 2022, in Como, Italy.



Alessandro Volta's Heritage  
and the Great Challenges  
for Humanity:  
The Past and the Future of  
Electrochemistry



Chemistry International 4 (2023) 17

## OTHER RECENT PROJECTS

2022-018-1-021 “Alessandro Volta's heritage: the past and the future of electrochemistry” collaboration with Italian National Commission for IUPAC To celebrate Volta's anniversary and to highlight the role of chemists in sustainable development and energy research and tie in with the IYBSSD. S. Borsacchi et al. *Chem. International*, iss. 2, 2023, pp. 17

2022-020-1-021 “Workshop and Panel Discussion of Conference Ideas at Malta X”

The “Importance of trust for the future implementation of the Chemical and Biological Weapons Conventions” workshop and the “Challenges surrounding water access and security in the Middle-East” panel discussion were run by CHEMRAWN. Our planned CHEMRAWN XXIII conference on ‘Safe and Secure Water Access’ will impact developing countries and also lead to new teaching materials on this topic. The foundations for this conference were set at Malta X and the project further developed during the 2023 General Assembly. For more on Malta X see: Y. Shevah et al. *Chem. International*, iss. 2, 2023, pp. 44



## LOOKING FORWARD TOWARDS 2024/25

- Organize and hold CHEMRAWN XXIII on ‘Safe and Secure Water Access’ at a location in the Middle East
- Advance plans for ‘Heavy Metals in Environment – Sources, Effects and Probable Solution’ and ‘Elements at Risk’ CHEMRAWN conferences
- More legacy projects from CHEMRAWN XXII e-waste Africa e.g. social media activities, ‘Ask an Expert’, ‘Infographics’
- Enhance interactions with others in IUPAC and IYCN e.g. Entrepreneurship (with COCI), Guidelines for Citizen Science in Chemistry-related Disciplines (with CCE), GCS Day (with IYCN)



Register an event  
Save the Date  
Sept. 25, 2023



SCAN ME



Thank you to all CHEMRAWN members past & present, & all of our supporters and collaborators  
Please get in touch and share your ideas with us! We are happy to collaborate and work together