



THE AMERICAN UNIVERSITY IN CAIRO

الجامعة الأمريكية بالقاهرة

*AUC International Conference on Research in African Challenges (ICRAC)*

*Track S: Science contribution to alleviating poverty*

SUB-TRACK S1: WATER-ENERGY-FOOD NEXUS AND COMMUNITY EMPOWERMENT FOR  
NUTRITIONAL SECURITY (FOOD SECURITY, NUTRITION AND HEALTH)

**Chair: Dr. Hani Sweilam**

**Co-chair: Dr. Claudio Bogliotti**

In Africa and internationally, the water-energy-food nexus has gotten expanding thought from researchers, practitioners, and policy makers. African nations in particular, confront developing difficulties in taking care of the mounting demand for food, water, and energy for a rapidly growing population. An essential establishment of 'the nexus' is that water use is inter-reliant with energy and food production. Notwithstanding the intrinsic interconnections between water, energy, and food security, associations regularly work in a partitioned and confined way. Underprivileged sectorial management and institutional division have started an unsustainable utilization of assets and undermined the long haul maintainability of water, energy, and food security in the region, and furthermore disguised difficulties to accomplishing the Sustainable Development Goals (SDGs). More coherent strategy between the three sectors is precarious for decoupling expanding food production from water and energy intensity and moving to an effective and manageable utilization of assets. The nexus approach can upgrade understanding the bungle of the three sectors and fortify coordination among them. In any case, it requires a noteworthy move in the basic leadership process towards taking a comprehensive view and creating composed systems to organize activities and reinforce complementarities and cooperative energies among the three areas. The "ICRAC" gathering in September 2019 unites experts to examine these imperative issues, and what they mean for African economies and networks.

**Biographies**

**Hani Sweilam** joined AUC as a professor (tenure) for sustainable development and water resources management. Sewilam is the founding director of both the Center for Sustainable Development and the MSc in sustainable development at AUC. He coordinated the capacity development activities of the United Nations Water between 2010 and 2011. Sewilam works at the RWTH Aachen University in Germany as the academic director of the Department of Engineering Hydrology and executive director of the UNESCO Chair on Hydrological Changes and Water Resources Management. From 2002 to 2010, Sewilam worked as the deputy director for the Department of Engineering Hydrology at the RWTH Aachen University. He managed international research and capacity building projects in 21 countries.

In 2017, Sewilam founded the MSc in sustainable management – water and energy at the RWTH Aachen University. In 2008, he established the North African Regional Center of Expertise on Education for Sustainable Development (RCE Cairo), which is acknowledged by the United Nations University. Sewilam worked for the Egyptian National Water Research Center as a researcher and coordinator for development projects with several UN organizations.



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He has more than 25 years of academic and professional experience in the fields of sustainable development, water resources management, water-energy-food nexus, desalination and capacity building. He authored many peer-reviewed scientific papers and book chapters. Sewilam served as a consultant and reviewer for several international research and development organizations. Sewilam holds a PhD in water resource management from the RWTH Aachen University (Germany), a MSc in irrigation management from Southampton University (UK), as well as a graduate diploma and BSc in irrigation and environmental engineering.

**Dr. Claudio Bogliotti** is the Head of EU Research and Innovation Policies Unit at CIHEAM, 30 years professional experience of which 15 years devoted to European Union affairs in science and technology as well as research in water and land, climate, agriculture. More than 10 years' experience in managing EC funded research and development projects (DG Research, DG DEV, EU Structural Funds) and working also as policy officer (present position) at DG Research. The latter position gave me the opportunity to gain experience in policy and strategy development within the EU institutions, particularly in science and technology, environment, energy, climate, communication and education. The present position as policy officer at DG Research give me also the opportunity to work at diplomatic and senior officials level with EU (mainly Cabinets and European parliament), Member States, International Organizations and third countries (particularly Mediterranean partner countries and Sub-Saharan countries). The former working positions as researcher and practitioner (in the private sector) have contributed to consolidate the professional background in the technical sector, to develop a win-win analytical approach, to enhance multi-discipline and integrated models and strategies across the different thematic sectors, namely environment, climate and natural resources.