

NEWS letter

September 2023 • Issue 6

WAITRO



WORLD
ASSOCIATION OF
INDUSTRIAL &
TECHNOLOGICAL
RESEARCH
ORGANIZATIONS

EDITORIAL

Participation in associations and networks is essential for achieving scientific-technological objectives

Mayra Villatoro - Head Of Technical Laboratories

Ministry of Energy and Mines -Guatemala



In a globalized world, characterized by great interdependence, without a doubt, international cooperation, through its various actors and modalities, is key for scientific and technological development, and therefore for the development of centers and institutions that fulfill a technical-scientific mission. This benefits the development of societies. In this context, the exchange of knowledge, experiences and information through associations, networks or other international figures is of fundamental importance for achieving the objectives set within our institutions.

In 1998, our institution had the opportunity to learn of the existence of WAITRO. In this context, the idea arose and at the same time the opportunity to become members of this organization. Since then, we have participated in different activities developed by WAITRO.

From our experience at WAITRO we can say that it has been quite interesting. We have had the opportunity to make the world aware of the existence of our institution and what we do in the field of laboratories related to nuclear applications, minerals and hydrocarbons.

We have had the opportunity to publish our profile, as well as our activities in WAITRO magazines. We have participated in some of the events organized by WAITRO. Likewise, recently, we have published research proposals on the SAIRA platform and we are currently participating in the activities of the work plan for the region, coordinated by CTA, RFP for Latin America. In this sense, we have had the opportunity to exchange knowledge and experiences with the different members of WAITRO. All of which has been thanks to the cooperation provided by WAITRO, which has been beneficial for our institution.

It is important to mention that the coordinated action of WAITRO in conjunction with its RFPs, through different mechanisms and tools, allows the connection and association of the different members, which in turn allows the establishment of joint actions to achieve common objectives. in science, technology and innovation. In this context, it is important to take advantage of those mechanisms and tools that WAITRO offers us. One of these tools is the SAIRA platform, which provides the opportunity to publish our applied research proposals, in order to find partners who may have common interests.

WAITRO and its RFPs provide the opportunity to coordinate and promote cooperation among its members, as well as the connection with international collaborators for the exchange of knowledge and experiences, and also for the execution of joint projects in scientific-technological research. It is also necessary that as members we have active participation to achieve specific objectives. In this context, the benefits of cooperation in its different practices are perceived.

ABOUT US

CAPACITY BUILDING PROGRAM FOR LATIN AMERICA AND THE CARIBBEAN

We continue working to consolidate the Waitro network and generate better connections to strengthen the collaborative work of our institutions. Our next webinar is to learn more about the Saira platform and its functionalities.

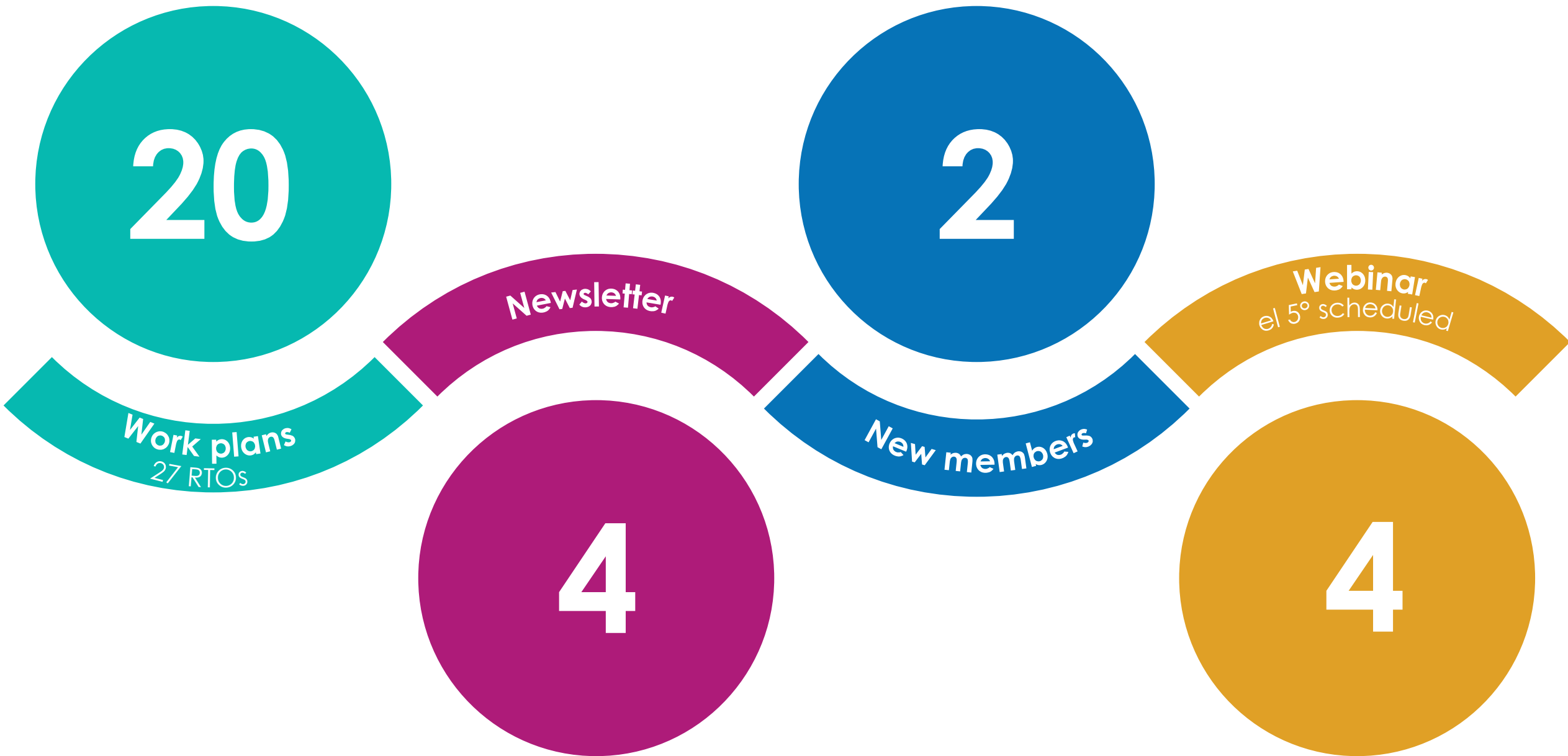


First big SAIRA training: Exploring the platform and its generalities
Dominik Reinertz

28
SEPTEMBER

PROGRESS OF CTA'S WORK AS RFP 2023

In its work to promote and dynamize the articulation of research and technology organizations in Latin America and the Caribbean, CTA continues to carry out actions and articulating the network. These are the actions we have been carrying out.



MEET OUR NEW RR WAITRO -LAC

Our new RR is María Eugenia Suárez, Assistant Manager of Institutional Relations at INTI - Argentina. Thanks to her extensive experience in institutional relations and in the management, monitoring and presentation of projects at international level, she will contribute greatly to our network, strengthening our knowledge every day.

In recent days our new RR was elected for a period of 2 years, during which she will have among other responsibilities, to develop and promote activities and memberships at regional level, generate reports of the activities carried out in the region and address issues of regional interest in the meetings of the Executive Committee.

NETWORK

THE XXXI AAPRESID CONGRESS ENDED WITH RECORD PARTICIPATION



The XXXI AAPRESID Congress ended with a record participation, attracting more than 7,800 attendees from all over the country and the world.

The event focused on sustainability, innovation, and trends in the agricultural sector, with the participation of outstanding referents and specialists.

One of the highlights of the congress was the presentation of a joint survey between AAPRESID and Syngenta, which revealed that agricultural land in Argentina is only using 46% of its soil organic carbon sequestration capacity (COS).

A map showing the potential of Argentine soils to increase COS stocks up to 56%, which could help mitigate between 50% and 64% of agriculture-related emissions, was also presented.

In addition, the XXV International Oilseed Producers' Dialogue (IOPD) was held, which brought together representatives of oilseed producers' associations from several countries. Discussions focused on the challenges facing the international oilseed industry, including policies, regulations and market access.

In the area of cooperation, CAAPAS and IICA signed an agreement to improve the competitiveness of the agrifood sector in Latin America through sustainable and regenerative practices, such as no-till farming and soil conservation.

The congress took place from August 9 to 11, 2023, in the city of Rosario, Santa Fe province, Argentina.

WE WELCOME CIDT TO OUR NETWORK

We are very pleased to be part of Waitro, we are motivated by the opportunity to generate synergies and find international collaboration to develop projects related to Industry 4.0.

The CIDT (Center for Innovation and Technological Development) is attached to the Technological University of Pereira, is a center for Innovation and Productivity, is recognized by MINCIENCIAS, *its purpose is to energize, articulate and enhance capabilities and knowledge services, state, business and society*, to encourage technological development, entrepreneurship and innovation, in order to contribute to the productive and social transformation of the territory, with a focus on solutions from Industry 4.0.

This center provides support in applied research, technological development and innovation for entrepreneurs and companies of society, articulating the capabilities of research groups and providing solutions to the challenges faced by industry.

To this end, *it identifies challenges and business challenges, which can be solved through advisory services, consultancies, project formulation, strategic alliances and/or participation in national and international calls for proposals.* It also focuses on the social appropriation of knowledge from the generation of spaces for collaboration and synergy for the exchange of knowledge and experiences between researchers, companies, and society.

In its trajectory, the CIDT has gained experience in the development of science, technology and innovation projects related to the ICT industry and 4.0 technologies and from the articulated work with different departmental actors, has influenced the agenda for the development of the innovation ecosystem from the strategy Network of Innovation, Science and Technology Nodes where the differentiation of strategic sectors towards a sustainable and intelligent territory is promoted.



TASKS

SAIRA OPPORTUNITIES

These are some of the projects that are available in Saira for us to work in alliance, you can find more projects by entering: <https://saira.eco/saira2/pub/>.

Final disposal of chemical reagents from the mineral area warehouse of the technical laboratories of the Ministry of Energy and Mines



Ministry of Energy and Mines of Guatemala

Cleaning the chemical reagent warehouse, eliminating chemical waste and expired reagents for this we need training and furniture to have our warehouse in an orderly manner.

Partner search for projects related to bio-conservation and smart agriculture



Centre for Climate Change and Environment Management

Biodiversity conservation and smart agriculture are intertwined for sustainable future. By integrating advanced technologies like precision farming, AI and IoT, we can optimize resource use, reduce environmental impacts, and promote biodiversity. This synergy holds great promise in achieving food security while preserving our ecosystems.



R&D of ultra-high-speed hydrostatic air-flotation electric spindles



JITRI-Jiangsu Industrial Technology Research Institute

With the increase in the application requirements of high-end IC substrates such as BGA, CSP, and flip chip (FC), and the development of new tool technology, the demand for drilling processes with specifications below 0.1mm is increasing.

Development of a point-of-care device for electrochemical detection of toxic heavy metals



North West University

The detection of metal ions in water sources at low concentration levels continues to be one of the most important issues in environmental monitoring. Heavy metal concentrations in drinking water are still beyond the recommended limits set by regulatory authorities. This research aims to develop a portable electronic unit using miniaturized sensors for the detection of toxic heavy metals.



Development of new services in the external dosimetry laboratory to provide adequate surveillance of exposed workers



Ministry of Energy and Mines of Guatemala

The increase in the use of nuclear applications in Guatemala demands also the parallel development of new techniques to adequately monitor the exposed workers to ionizing radiations in the course of their daily work. Because of that, External Dosimetry Laboratory need to develop the dosimetry for extremities and for the lens of the eye for medical and industrial workers to adequate monitoring.



WHAT IS NEWS AT WAITRO?

In the constantly evolving world of research and innovation, our institutions make advances or are part of projects that are of interest to all, so we remind you that you can share articles to build together our monthly newsletter. Here we leave you some topics that we can address in this publication:

• **Strategic alliances:** Alliances represent a fundamental pillar in the fabric of WAITRO, we can share news related to the collaborations formed between our members, which not only strengthen our global network, but also drive innovation and research in key areas. We believe that joining forces is the key to addressing the most pressing challenges of our time.

• **Relevant events:** For WAITRO, events are opportunities for knowledge sharing and mutual inspiration, so we want to highlight events organized by our member institutions that are in sync with our mission, where they also drive research and innovation forward.

• **Projects with a shared vision:** The realization of projects that have a significant impact is a central objective for WAITRO and its members, these demonstrate our commitment to solving global challenges and creating a better future through research and technology.

WAITRO Secretariat

211800, No.7 Huafu Road, R&D Park, Jiangbei New District
Nanjing, Jiangsu, China
info@waitro.org

