



IAHR UTEC Water and Environmental Research Young Professionals Network

2021 Annual Report of Activities

1. Introduction

IAHR UTEC Water and Environmental Research YPN was born in 2018 with the goal to channel the interests of students and young professionals in environmental issues, through academic and recreational activities, as well as research projects. The YPN chapter started out with 20 members, all of them from an undergraduate program at UTEC, mainly from the environmental engineering department. Nowadays, the members are from different undergraduate engineering programs and are more involved in the direction and organization of the YPN, sharing the same interests and knowledge from one peer to another. The organization is divided into 4 subdivisions: Research, Academic Activities and Sustainability, Social Activities and Citizen Science.

2. 2021 main goal and key objectives

The main objective for the 2021 period was to achieve an effective adaptation of our face-to-face activities and meetings, to a digital format, giving emphasis to online academic activities and social media publications. Other important goals were to identify and establish an active schedule to ensure the continuity of academic and recreational activities, to increase the number of active members of the organization and prepare the actual members for the directive translation in 2021, and to develop activities in conjunction with other YPNs in Peru and Latin America. Also, the development of an area within the organization related to social responsibility and citizen science was an important objective.

3. Composition

Officers

President

Mariana Macarachvili Doig





Vice President

Marco Cordova Puglianini



Academic Activities Coordinator

Alejandra Lopez Ponte



Internal Relationships Coordinator

Joaquin Espinoza



Advisor

Daniel Horna Muñoz



List of members

2021 Annual Report of Activities

Name	Surname	Country	Membership category (student or professional affiliate)
Mariana	Macarachvili	Perú	Active Membership /Directive Student
Marco	Cordova	Perú	Active Membership /Directive Student
Joaquín	Espinoza	Perú	Active Membership /Directive Student
Alejandra	López	Perú	Active Membership /Directive Student
Daniel	Horna	Perú	Active Membership /Advisor (Professional)
María	García	Perú	Active Membership /Support Student
Chiara	Manassero	Perú	Active Membership /Support Student
Camila	Timaná	Perú	Active Membership /Support Student
Rodrigo	Cuya	Perú	Active Membership /Support Student
Ariana	Sotelo	Perú	Active Membership /Support Student
Adriana	Marchan	Perú	Active Membership /Support Student
Claudia	Estrada	Perú	Active Membership /Support Student
Marian	Poblete	Perú	Active Membership /Support Student
Nathaly	Dongo	Perú	Active Membership /Support Student
Noemi	Miguel	Perú	Active Membership /Support Student
Sergio	Plasencia	Perú	Active Membership /Support Student
Tamarah	Acevedo	Perú	Active Membership /Support Student

4. Communications


Website	https://www.iahr.org/index/committe/76
Facebook	https://www.facebook.com/werypn
Twitter	None
Instagram	https://www.instagram.com/werypnutec/
Linkedin	None
Other	https://www.tiktok.com/@wer_ypnutec

Newsletter/s	None
Publication/s	None
Other	<p>Diverse Information Posts available on Instagram</p> <ul style="list-style-type: none"> - Children Sustainable Workshop - 2021 Environment and Presidential candidates (13) - International Day of Women and Girls in Science - Forest Fires - International Women Day - World Water Day - Earth Day - Soil Pollution and Edaphology - Fundraising WER Anniversary Event - Environmental Engineering Q&A

	<ul style="list-style-type: none"> - World Environment Day CITA Webinar - R for Hydrology Introductory Workshop - National Tree Day - 2021 WER-YPN Team presentation - World Day of Migratory Birds - Mercury Pollution Action Day - OpenFOAM for Hydraulic Design Webinar - Reaching A New World With Synthetic Biology
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5. Activities


Activity 1

	Children Sustainable Workshop
	January
	<p>Objectives</p> <p>To reinforce and to generate interest in the little ones for the environment and water resources caring</p>
	<p>Description</p> <p>The program is focused on boys and girls between 8 and 12 years old from the Barranco district located in Lima, Peru</p> <p>Each week there a theory and a practice module (experiments at home) were provided to complete a dynamic learning.</p>


Activity 2

	2021 Environment and Peruvian Presidential Candidates
	From February to March
	Objectives To present a candidate's environmental proposals
	Description 13 Candidate's environmental proposals were published through instagram weekly posts. The information presented was not for political or promotional purposes for any of the aforementioned parties.

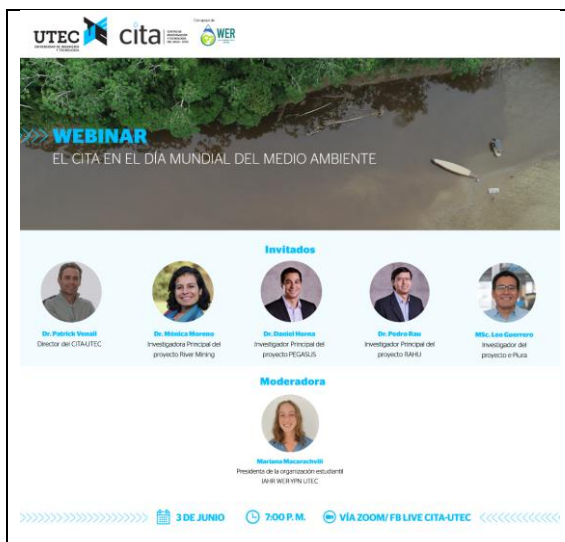
Activity 3

	Fundraising WER Anniversary Event
	May 8th
	Objectives Raise funds for future intern research projects
	Description People from our campus, outsiders and relatives will buy tickets so they can participate in winning prizes. Therefore, they are contributing to our cause.

Activity 4

<p>WER - YPN PRESENTA:</p> <p>Q&A INGENIERÍA AMBIENTAL</p> <p>¡Te invitamos a conocer un poco más acerca de la carrera en este Q&A! Esperamos con ansias resolver todas tus dudas.</p> <p>LUNES 31 DE MAYO A LAS 7 PM LINK DE INSCRIPCIÓN EN NUESTRA BIO</p> 	<p>Questions and Answers about the Environmental Engineering career at UTEC</p> <p>31st May</p> <p>Objectives Motivating membership for new environmental engineer students.</p> <p>Description All WER YPN members respond to questions about the career, the organization and professional development from new undergraduate students.</p>
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Activity 5

 <p>WEBINAR EL CITA EN EL DÍA MUNDIAL DEL MEDIO AMBIENTE</p> <p>Invitados</p> <ul style="list-style-type: none"> Dr. Patricia Novelli Directora del CITA/UTEC Dr. Patricia Novelli Investigadora Principal del proyecto River Mining Dr. Daniel Novelli Investigador Principal del proyecto PEGASUS Dr. Patricia Novelli Investigadora Principal del proyecto RANU MSc. Leo Guerrero Investigador del proyecto e-Plus <p>Moderadora</p> <ul style="list-style-type: none"> Marlene Rodríguez Presidenta de la organización estudiantil WER YPN UTEC <p>3 DE JUNIO 7:00 P.M. VÍA ZOOM/ FB LIVE CITA-UTEC</p>	<p>World Environment Day CITA Webinar</p> <p>June 3rd</p> <p>Objectives To celebrate World Environment Day</p> <p>Description Projects were presented as part of the work that has been carried out related to the preservation of different peruvian ecosystems</p>
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Activity 6

	<p>R for Hydrology Introductory Workshop</p> <p>September 2nd & 3rd</p> <p>Objectives To teach fundamental concepts of hydrological modelling in engineering and hydrology</p> <p>Description RStudio platform was employed to run hydrological models and its implications in engineering and hydrology</p>
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Activity 7

	<p>OpenFOAM for Hydraulic Design Webinar</p> <p>November 14th</p> <p>Objectives To design hydraulic works using a free software</p> <p>Description OpenFoam platform was employed to test different variables to design hydraulic works</p>
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6. Partnerships and collaborations

Partner organisations and/or interaction with related national organisations

Organisation	Description of partnership
RUA UTEC	Development of academic activities related to presidential candidates proposals
BIOUTEC	Development of a post about synthetic biology to raise funds to participate in iGem Design League.
CITA- Centro de Investigación y Tecnología del Agua	Both organisations planned the fifth activity of the year. The presentation had five speakers that work at CITA and a moderator with the aim to present projects related to the World Environment Day

Collaboration with other YPNs

In 2021 an alliance has been formulated with the vast majority of the YPNs (Mentioned below) at a national level. Two activities were organized by this alliance, one of them was a conference that lasted three days aiming to inform the public about Glaciers and Climate Change.

YPN name	Description of collaboration
IAHR Universidad Nacional Agraria La Molina CIDRHI Young Professionals Network	Organization, diffusion, and presentation of the activity: R for Hydrology Introductory Workshop. One of the expositors of the activity was proposed by the organization (IAHR UTEC WER YPN). Members of the organization participated in the activity
IAHR Peru Young Professionals Network	Organization, diffusion, and presentation of the activity: OpenFOAM for Hydraulic Design Webinar. Members of the organization participated as moderators by giving introductions and conclusions

7. Contributing to the strategic plan

7.1. Please describe how your activities in 2021 have contributed to and advocated for IAHR's vision and strategic plan (<https://www.iahr.org/index/detail/101>)

Water and Environmental Research YPN is committed to amplifying the collective knowledge of the global Hydro-Environment community in other students, professionals and population in general with the online webinars about important issues that happen in Peru in terms of water systems and environment. In addition, the organization is interested in inspiring and disseminating knowledge to everyone who wants to listen, as an example we aim to educate children in water resources with the new Citizen Science division. For the organization it is very important to give a great member experience and develop a network with other YPNs in Peru



for organizing events and networking with new professionals in the field of water management and environment.

7.2. Please describe how your YPN contributes to the IAHR YPN high-level aims

The YPN is committed to networking and sharing experiences from our members, collaborates and pairs with neighboring YPNs, and receives training and opportunities for mentoring from other professionals. And most importantly, to communicate all the knowledge and information to others for raising awareness and motivating them in research and sustainability.