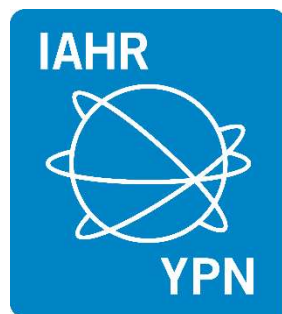


# **IAHR UTEC Water and Environmental Research Young Professionals Network**

## **2020 Annual Report of Activities**



UTEC Water and  
Environmental Research  
**Young  
Professionals  
Network**

# IAHR UTEC Water and Environmental Research Young Professionals Network

## 2020 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. 2020 main goal and key objectives

The main objective for the 2020 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. Communications

Newsletter/s	None
Publication/s	<p>Two (2) articles in the 1st IAHR Young Professional Congress:</p> <ul style="list-style-type: none"> <li>- Initial development of a citizen science-based river flood monitoring and forecasting for the Rimac river in Lima Peru</li> <li>- Initial findings of microplastics concentration in three coastal environments: A case study in the Peruvian coast</li> </ul>

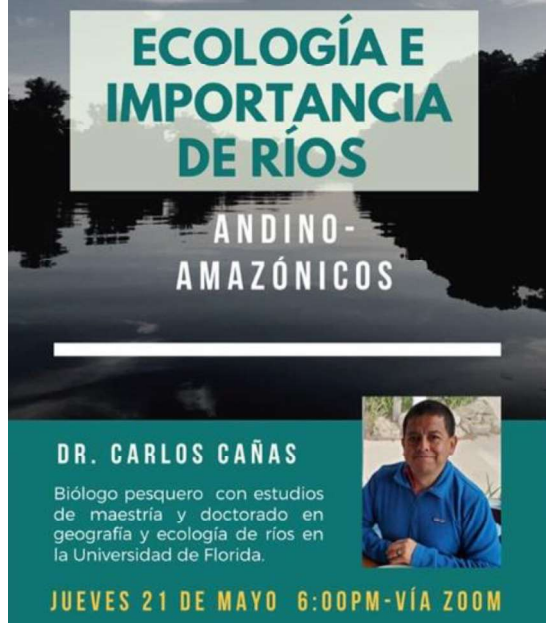
Other	<p>Diverse Information Posts available on Instagram</p> <ul style="list-style-type: none"> <li>- Earth week</li> <li>- Eutrophication</li> <li>- Glaciers and gloffs</li> <li>- Evapotranspiration</li> <li>- Atmospheric gases</li> <li>- Underground water</li> <li>- Global warming, climate change and greenhouse effect</li> <li>- Myth of Amazonian uniformity</li> <li>- The Rímac river</li> <li>- Amazon connectivity</li> <li>- Microplastics</li> <li>- Wetlands</li> <li>- Escazú Agreement</li> <li>- Impact of the amunas</li> </ul>
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#### 4. Activities

##### Activity 1

  	Sustainable Camp
	January
	<p><b>Objectives</b></p> <p>Integrate the YPN community in a nature environment and enhance awareness about coast pollution by plastics.</p>
	<p><b>Description</b></p> <p>The YPN members camp in Cerro Azul beach and clean up the beach, as well as a microplastics identification.</p>

## Activity 2


	Ecology and Andean Amazonian Rives Importance
	Thursday 21st of may
	<p>Objectives</p> <p>Raising knowledge about the importance of water systems ecology.</p>
	<p>Description</p> <p>Online webinar with an ecologist, who talks about andean amazonian rivers and why they are important for the ecology. Also, show the anthropogenic impacts in the rivers connectivity and how it affects local biology.</p>

## Activity 3

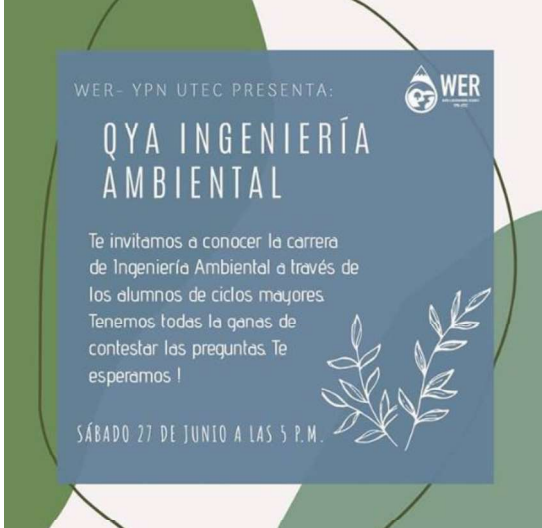
	Dancing Rivers of the Peruvian Amazon
	Wednesday 3rd of June
	<p>Objectives</p> <p>Delivering opportunities for research and useful information.</p>

 <p><b>WEBINAR</b></p> <p><b>Ríos Danzantes</b> de la <b>Amazonía Peruana</b></p> <p>Conociendo sus variables físicas</p> <p><b>LIVE</b></p> <p><b>Miércoles 03 de junio</b> 5:00 PM</p> <p><b>Jorge D. Abad</b> Director Ejecutivo CITA-UTEC</p> <p><b>Leo Guerrero</b> Coordinador de mediciones de campo CITA-UTEC</p> <p><b>Gabriela Flores</b> Coordinadora SIG CITA-UTEC</p> <p><b>Henry Valverde</b> Coordinador de modelamiento CITA-UTEC</p> <p>Moderadora: <b>Maria Paz García</b> (WER-YPN UTEC)</p> <p>Logos: UTEC, cita, WER, MOORE FOUNDATION</p>	<p><b>Description</b></p> <p>Online webinar with the Water Research and Technology Center (CITA-UTEC) and publicize their new platform (<a href="https://www.dancingrivers.com/">https://www.dancingrivers.com/</a>), where information about 4 Peruvian amazon rivers and the science behind this movement are displayed in order to understand their physical dynamic.</p>
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#### Activity 4

 <p><b>PRESAS Y CONECTIVIDAD EN RÍOS AMAZÓNICOS</b></p> <p>CONVERSATORIO YOUNG PROFESSIONALS NETWORK</p> <p><b>1</b> DE JULIO 6-8 P.M.</p> <p>ORGANIZADORES</p> <p>Logos: GEAHH, GEMIRA, WER, CERR, GATTELLO UAHN - UPC</p>	<p>Water dams and amazonian river connectivity</p>
	<p>1st of July</p>
	<p><b>Objectives</b></p> <p>Raising awareness about water issues and the impact of dams in the amazonian connectivity.</p>
	<p><b>Description</b></p> <p>Four (4) expositors were invited for giving their different points of view about the dams in the Amazon basin, and their impacts or benefits for the connectivity, ecology and energy in a discussion panel.</p>

### Activity 5

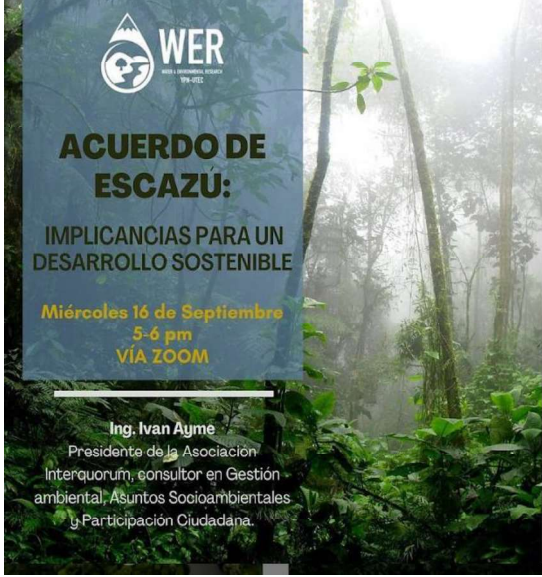
	Questions and Answers about the Environmental Engineering career at UTEC
	Saturday 27th of June
	<b>Objectives</b> Motivating membership for new environmental engineer students.
	<b>Description</b> All YPN members respond to questions about the career, the organization and professional development from new undergraduate students.

### Activity 6


	Sustainable Quarantine Challenge
	27th April
	<b>Objectives</b> Raising awareness about sustainable lifestyle in the pandemic context.
	<b>Description</b> The challenge consists of uploading photos or videos about their daily activities in quarantine that protects the environment for a sustainable quarantine.



### Activity 7


 <p><b>ACUERDO DE ESCAZU:</b> IMPLICANCIAS PARA UN DESARROLLO SOSTENIBLE</p> <p>Miércoles 16 de Septiembre 5-6 pm VÍA ZOOM</p> <p>Ing. Ivan Ayme Presidente de la Asociación Interquorum, consultor en Gestión ambiental, Asuntos Socioambientales y Participación Ciudadana.</p>	Escazú Agreement
	Wednesday 16th of September
	Objectives
	Describe the objectives of the webinar.
	Description
	Online webinar to give information about the politics of the new agreement, their applicability in a future sustainable development and a discussion about the Agreement.

### Activity 8

 <p><b>Agentes de impacto, conservación y gestión de humedales en el Perú</b></p> <p>Miércoles 14 de octubre a las 5:30-7:00 pm</p> <p>Dr. Héctor Aponte Ubillus Professional Wetland Scientist (SWS)</p> <p>Modera: Rodrigo Cuya</p> <p>Coral Calvo Vargas Especialista en Gestión Pública para la conservación de Ecosistemas</p>	Agents of Impact, conservation and wetlands management in Perú
	Wednesday 14th of October
	Objectives
	Raising awareness about conservation and status of Peruvian wetlands.
	Description
	Online webinar for informing students and the population about the critical status of some wetlands in Peru and future

	perspectives management for their conservation.
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### Activity 9

	Bioremediation and genetic pollutant sensors
	Wednesday 28th of October
	<p>Objectives</p> <p>Inform about technology for bioremediation and applications.</p>
	<p>Description</p> <p>Online webinar of a technique for bioremediation using genetic sensors.</p>


### Activity 10

	Introduction to drinking water treatment
	Saturday 7 of November
	<p>Objectives</p> <p>Raising awareness about the importance of water treatment in Peru.</p>



	<p><b>Description</b></p> <p>Online webinar with the Lima municipality to educate children and adults in terms of drinking water treatment.</p>
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#### Activity 11

	<p>IAHR UTEC WER YPN Presentation to new students entering the university</p>
	<p>7th of November</p>
	<p><b>Objectives</b></p> <p>Motivating new students to join the organization</p> <p><b>Description</b></p> <p>Online presentation of activities and division in the organization for new undergraduate students.</p>

## Activity 12


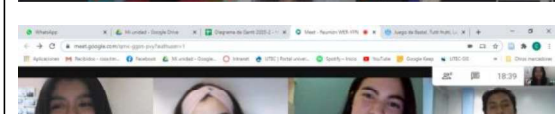

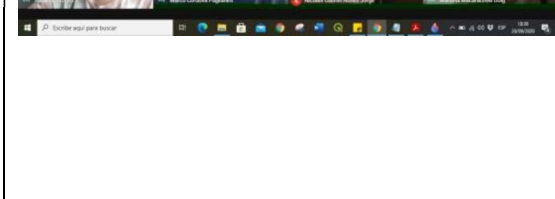
	Greenhouse effect, global warming and climate change
	Saturday 14th of November
	<p><b>Objectives</b></p> <p>Raising awareness about climate change and the different related concepts.</p> <p><b>Description</b></p> <p>Online webinar with the Lima municipality to educate children and adults in terms of climate change, carbon footprint, global warming and greenhouse effect.</p>

## Activity 13

	Conference: Glaciers and Climate Change
	26-28th of November
	<p><b>Objectives</b></p> <p>Raising awareness about glaciers and the impact of climate change.</p>

	<p><b>Description</b></p> <p>Online conferences with six (6) other Peruvian YPNs for three days to expose experts research in the field.</p>
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#### Activity 14

	<p>Periodic Meetings with the IAHR UTEC WER YPN team</p>
	<p>Every saturday at 8:00 pm</p>
	<p><b>Objectives</b></p> <p>Motivating YPN member</p>
	<p><b>Description</b></p> <p>Online weekly meetings with all the YPN members to organize new activities,</p>



integrate the new members and share interese and experiences.

## 5. Partnerships and collaborations

Partner organisations and/or interaction with related national organisations

Organisation	Description of partnership
AICHE UTEC	AICHE UTEC is a chemistry student organisation that invited our members to participate on the K-12 project.
RUA UTEC	Development of academic activities related to environmental goals in the K-12 project. Two presentations were organized and thought online.
BIOUTEC	Development of a presentation about bioremediation. The partnership will continue with 3 more presentations.
CITA- Centro de Investigación y Tecnología del Agua	Both organisations planned the second activity of the year. The presentation had four speakers that work at CITA with the aim to introduce the “Dancing River” Platform.
Municipalidad de Lima	An alliance was made in order to participate in the STEAM Hour program, that the municipality broadcasted. This was organized because of the K-12 project.

## Collaboration with other YPNs

In this year 2020 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 Pontificia Universidad Católica del Perú Young Professionals Network	Organization, diffusion, and presentation of the activity : <i>Water dams and amazonian</i>

IAHR Universidad Nacional Agraria La Molina CIDRHI Young Professionals Network	<i>river connectivity</i> . One of the expositors of the activity was proposed by the organization (IAHR UTEC WER YPN). Members of the organization participated as moderators.
IAHR Universidad Nacional de Ingeniería- GEAHH-Young Professionals Network	
IAHR Universidad Nacional Mayor de San Marcos Young Professionals Network	Participation in the Conference: <i>Glaciers and Climate Change</i> . One of the expositors of the activity was proposed by the organization. Members of the organization participated by giving introductions and conclusions.
IAHR Universidad Peruana de Ciencias Aplicadas (UPC) CEDIARHMA's Young Professionals Network	Participation in the <i>Conference: Glaciers and Climate Change</i> . One of the expositors of the activity was proposed by the organization. Members of the organization participated by giving introductions and conclusions.
IAHR Peru Young Professionals Network	

### 6. Contributing to the strategic plan

7.1. Please describe how your activities in 2020 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 motivated them in research and sustainability.