IAHR [YPN Venezuela] Young Professionals Network

2023 Annual Report of Activities

IAHR YPN

Young Professionals Network

Hosted by
Spain Water and IWHR, China

1. Our vision and mission

Officially created the May 6, 2019, the YPN Venezuela is composed of 9 members (young professionals) all professionals in the hydro-environment engineering sector. Due to complex conditions in our home country, some of us are currently living in different regions of the world (Argentina, USA, Chile, France, Sweden and Venezuela). This particularity of our YPN makes it an innovative initiative that seeks to adapt to today's challenges and enables us to strengthen our links as young Venezuelan professionals living around the world. The creation of the YPN Venezuela is a great opportunity for us to stay connected to the hydro-environment sector worldwide and also provides us with many advantages to continue our professional development. All the members of the YPN Venezuela are honored to be a part of the IAHR and are looking forward to contribute to the development of the IAHR YPN community.

2. Main goals and key objectives in 2023

Increase the number of members studying in Venezuelan universities. This aims to ensure the continuity of the Young Professional Network, strengthen the contact between the members in Venezuela, and overcome the challenges of originating by being a network with members living in different parts of the world.

Specific actions taken to achieve this objective included:

1. technical talks were organized intending to give space to the newest and/or youngest members of the YPN Venezuela to share their professional experience and get feedback from their peers.

2. Increase the number of publications on social Media aiming to increase the visibility of YPN Venezuela.

3. Activities in 2023

Activity N°1

“Conversaciones Fluidas 20”

Date/s

20 January 2023

Venue

Online

Objectives

The main objective of this activity was to publicize the measures carried out in Venezuela in the tragedy that occurred in the state of Vargas, where a series of landslides occurred, for which the construction of works to reduce risks in the future was necessary. During the activity, the behavior of the structures built is shown, 20 years after the tragedy

Description

Eng. Gian Franco Morassutti

“Experiences in the performance of risk mitigation works in Vargas - Venezuela 20 years later.”

Activity N°2

"Conversaciones fluidas 21"

Date/s

23 February 2023

Venue

Online

Objectives

Ph. D. Daniel Valero presents methods to estimate drafts (water depths), methods to estimate velocities, and experimental methods in multiphase flows and, shares some experiences from an investigation of the transport of plastics in rivers, being the first to measure how it is the movement of this material in turbulent flows.

Description

Ph. D. Daniel Valero

"New methodologies for measuring turbulent flows on free surfaces."

Activity n°3

"Experiencias de Jóvenes profesionales"

Date/s

29 April 2023

Venue

Online

Objectives

To facilitate the identification of the composition, as well as the chemical quality of groundwater throughout the inventoried basins in the State of Nueva Esparta, the purpose of this research work is to: Prepare the hydrogeochemical and quality map of the groundwater of Margarita Island, Venezuela.

The main objective of the activity was to share the results of a degree thesis evaluating the quality of groundwater in the Margarita region, Venezuela, and to motivate young people to use these results to carry out future research.

Description

Degree in Geochemistry Ana Vílchez. "Hydro geochemical and groundwater quality map of Margarita island, Venezuela."

Activity n°4

"Conversaciones fluidas 22"

Date/s

23 May 2023

Venue

Online

Objectives

Explain each of the stages necessary to carry out a Groundwater Use Project, starting with the client's needs, incorporating the studies before drilling the well, drilling and construction of the well, as well as pumping tests, equipment, evaluation of water quality, and design of treatment systems.

Description

Degree in chemistry. Frank Zambrano.

"Development of a groundwater use project"

Activity n°5

"Conversaciones fluidas 23"

Date/s

25 July 2023

Venue

Online

Objectives

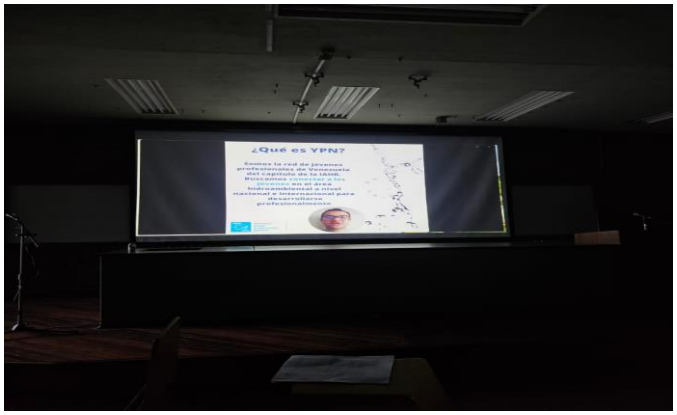
The objective of this activity was to illustrate the technical challenges faced during the construction of a hydroelectric plant located in Georgia, Europe, whose installed power capacity is 47MW, design flow rate of 21m^3/s, and 255m net head.

Description

Eng. Rodrigo Suárez.

"Khobi-II Hydroelectric Power Plant, Technical Challenges".

Activity n°6



“Experiencia de jóvenes profesionales”

Date/s

4 August 2023

Venue

Online

Objectives

During this event organized by students from the Central University of Venezuela (UCV), a video made by members of the YPN Venezuela was shown, inviting them to join the network and share experiences related to the hydro-environmental field.

Description

Las Majaguas Reservoir Forum, Portuguesa State, Venezuela; with the title:

"From the Venezuela of progress to the Possible Venezuela"

Different speakers participated.

Hydraulics: Prof. Sergio Silva and Bro. Sebastián Cova
Hydrology: Prof. Carmelo Gil and fr. Marisol Peaspan

	Water Quality: Bro. Héctor González and Bro. José León Minaguas Ing. Juan Lizcano The event was held in the Physics Auditorium of the Faculty of Engineering of the Central University of Venezuela.

Activity n°7

	"Experiencia de jóvenes profesionales" **Date/s** 29 August 2023 **Venue** Online **Objectives** *During the activity, the functioning of different NGOs in Venezuela was illustrated.* *Different cases are shown related to water, sanitation, and hygiene as an element of humanitarian aid in Venezuela, whose country has gone through a strong political, economic, and social crisis in the last decade.* **Description** Eng. Henry Sarmiento "Water, sanitation and hygiene as an element of humanitarian aid in Venezuela."

Activity n°8

	"Conversaciones fluidas 24" **Date/s** 28 September 2023 **Venue** Online **Objectives** *Origin and destination of mineral pulps, the design criteria for free surface transportation and pressurized conduits, and the materials used in each case.* **Description** M.Sc José Adriasola V. "General aspects about the transportation of mineral pulps, with emphasis on professional practice."

Activity n°9

“Experiencias de jóvenes profesionales”

Date/s

8 November 2023

Venue

Online

Objectives

The activity illustrated the construction process of a hydroelectric plant, showing some details of physical models where the behavior of the structures that compose it is evaluated. Different construction methodologies used during each phase of construction were also shown.

Description

Eng. Dayana Pita.

“Virtual tour of the construction of a hydroelectric plant”.

Activity n°10

“Asamble General”
Date/s 21 January 2023 14 August 2023
Venue Online
Objectives *Organize the activities of the year and give the floor to the new members of the YPN.*
Description General Assembly

Activity n°11

Posts on Instagram

Date/s

2023

Venue

Online - Instagram

Objectives

The objective of the publications is to educate, inform, and give visibility to the YPN through Instagram to reach more people, especially young professionals, and invite them to be part of the YPN.

Description

The objective of the publications is to educate and inform.

Topics were discussed such as water governance, its importance, what is sustainable development goal 6 of "Clean water and sanitation", and what are NGOs? Among other things, World Beach Day was also commemorated and known news such as the awarding of the Honorable Mention for the Selim Yalin Award to Professor José Luis López.

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4. Partnerships and collaborations

4.1. Partnerships

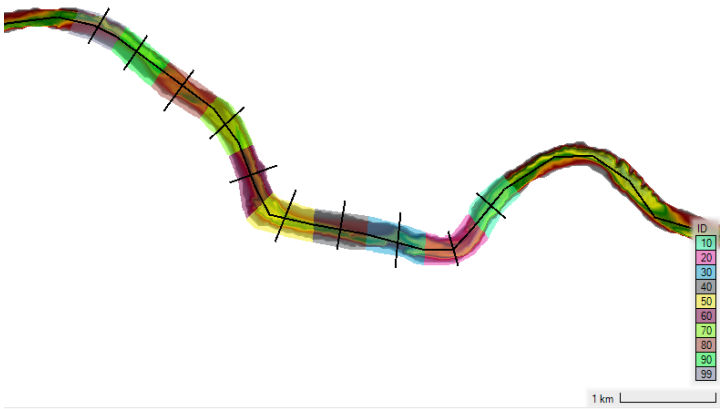
Partner organisations and/or interaction with related national organisations

Organisation	Description of partnership
SIHV	Venezuelan Society of Hydraulic Engineering. Participation in an episode of “Conversaciones Fluidas”
FONDONORMA	Ana Vilchez is part of the Well Hydraulics Technical Committee at FONDONORMA that is currently discussing the update of Covenin Standard 589-79 "Code of Practice for the Drilling of Water Wells".
LAD	Dayana Pita was appointed member of the LAD in the Latin American Congress of Hydraulic Engineering in 2022.

4.2. Collaboration with other YPNs

Participation of Dayana Pita, president of our YPN, in the 3rd Hydro-Environmental Challenge of Young Professionals of the AIDH.

This participation was in the Fluvial Hydraulics Challenge whose main objective was to demonstrate the use of engineering models when facing data limitations associated with historical river conditions.



Using measurements stored in the Win-River program, the Manning coefficient of the river under study could be determined.

The team in which Dayana Pita participated was the winner.

Winners of the 3rd IAHR Young Professionals Hydro-Environment Challenge

Gopi Chand
IIT Madras
India

Dayana Catherin Pita Ramirez
Universidad Católica Andrés Bello. Venezuela

Vanja Hatić
IBE
Slovenia

Eaden Ollo Olandiya
Wolaita Sodo University
Ethiopia

5. Communication channels

Website: https://www.iahr.org/index/committe/77

Bento:https://bento.me/ypnvenezuela?fbclid=PAAaaiS1Ick0XeSVMZmZG9jeVyi6JsHooVHk6p4jAJ5NV-WvmlqZFVIC_6_do

Twitter: @YPNVenezuela

Instagram: @ypnvenezuela

Linkedin: https://www.linkedin.com/company/iahr-ypn-venezuela

YouTube channel: https://www.youtube.com/channel/UC3r7l98XZCecdA_1smVjr_Q