

IAHR Fundación Universidad del Norte

Young Professionals Network

2020 Annual Report of Activities



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1. Introduction

IAHR Fundación Universidad del Norte YPN aims at the support of the education and professional development of future engineers in the hydraulic community. Oriented to the promotion of studies of water resources and the environment and their practical application in Engineering projects.

2. 2020 main goal and key objectives

The main objective in 2020 were promoting the role of science in the development of solutions for water issues at a global level, along with providing spaces to hold talks, as well as workshops to students related to the handling of software and other issues related to water resources.


3. Communications

Website	https://www.iahr.org/index/committe/67
Twitter	@ypnuninorte
Instagram	ypnuninorte
Linkedin	IAHR Fundación Universidad del Norte YPN


4. Activities

Activity 1


	Name of the activity Interview. Bases of coastal engineering and current situation in the Colombian Caribbean coast.
	Dates On 16 July 2020
	Objectives To make known fundamentals of this branch of hydraulics and to extend the invitation to students to take elective courses in this concern.

 <p>A video interview with PhD Germán Rivillas, a man with glasses wearing a green plaid shirt. The video has a 'filmora 9' watermark at the bottom.</p>	<p>Description PhD Germán Rivillas, professor at the Department of Civil and Environmental Engineering at the Universidad del Norte was interviewed by two members of this IAHR YPN. “What is this field of the hydraulics about?”, “What can we expect from this branch in the future for the city of Barranquilla?” were some of the questions discussed in this dialogue.</p>
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Activity 2

 <p>UNIVERSIDAD DEL NORTE Manejo de raster (DEM e imágenes satélites) para delimitación de cuencas Msc. Ing. Alexander Montalvo 24 DE SEPTIEMBRE DEL 2020 DE 4:30 PM - 6:30 PM TRANSMISIÓN VIRTUAL ¡Apuntate ya! IAHR Fundación Universidad del Norte YPN Hosted by: Spanish Water and IAHR, China</p>	<p>Name of the activity Workshop. Raster handling (DEM and satellite images) in watershed delimitation.</p> <p>Dates On 24 September 2020</p> <p>Objetives. <i>Providing spaces for software learning and initiation in the handling of tools used to solve hydraulic problems.</i></p> <p>Description MSc Alexander A. Montalvo M., professor at the Department of Civil and Environmental Engineering at the Universidad del Norte gave a workshop, in which he explained in detail the different steps for delimiting a watershed via QGIS.</p>
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Activity 3

	<p>Name of the activity Recorded video. Current research in Uninorte concerning the topic use of membrane technology.</p> <p>Dates On 5 October 2020</p> <p>Objectives. <i>To explain studies conducted at Universidad del Norte related to water treatment via membrane technology.</i></p> <p>Description An invitation was made to PhD Aymer Maturana, professor at the Department of Civil and Environmental Engineering at Universidad del Norte. He briefly explained through a video what the principle behind membrane technology is. In the same way he indicated how this technology is used in current research at Universidad del Norte.</p>
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Activity 4

	<p>Name of the activity Participation in the 1st IAHR Young Professionals Congress.</p> <p>Dates On 18 November 2020</p> <p>Objectives To encourage students to participate in the research areas of the hydraulic community.</p> <p>Description Three students of civil engineering at Universidad del Norte participated in the 1st YPN Congress conducting an extended abstract for the Ecohydraulics theme. Their research was mainly focused on the topic “Eco-Hydraulic impact of plastic flow over the mouth of the Magdalena River and adjacent beaches”.</p>
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Have you organised any activities to promote membership? If yes, please include them

We have held general meetings with the members and have explained to them the benefits of obtaining membership of the group, so that we are all committed to constantly disseminating all these advantages to the other students by also inviting them to the meetings so that they can be encouraged and become part of the water community.

5. Partnerships and collaborations

Partner organisations and/or interaction with related national organisations

Organisation	Description of partnership
-	-
-	-
-	-
-	-

Collaboration with other YPNs

YPN name	Description of collaboration
-	-
-	-
-	-

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>)

The activities carried out in 2020 have contributed to the IAHR's vision and strategic plan, since our efforts have positively impacted many people of our hydraulic community in Barranquilla. Our activities, which included the publication of posts through social media, allowed many students from Universidad del Norte to be updated in hydraulic topics at a global level. Likewise, the talks given, such as those on handling of software, water treatment, and coastal engineering, have made possible the accomplishment of learning objectives, demanded and desired by students. All the activities carried out throughout 2020 were aimed at promoting the education and professional development of future engineers in the water community.

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

Our YPN contributes to the high-level objectives of the IAHR by promoting spaces to discuss current water issues, as well as providing constant update to students on all water-related challenges that are being presented worldwide so that we can be part of the solution in the near future.