IAHR University of Central Florida Young Professionals Network

2020 Annual Report of Activities

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1. Introduction

IAHR UCF YPN is hosted by the Center for Hydroscience Analysis, Modeling & Predictive Simulations from Department of Civil, Environmental, & Construction Engineering at University of Central Florida. IAHR UCF YPN involves students in the international research community for fluid mechanics; hydraulics; hydrology; water resources & environmental engineering (hydroscience) to broaden their knowledge and enable affiliates to gain experience and network for their future careers.

2. 2020 main goal and key objectives

The main objective of 2020 was to actively involve students in the international community of research and best practice in water science and engineering. We aim to broaden the knowledge of student affiliates in the field of water resources engineering and research, through participation in seminar activity, academic meetings, etc. During each activity, we also hope to provide information to the members which is useful for their careers. Though the COVID-19 pandemic has highly influenced our normal activities on the campus in 2020, we still have hold two seminars in the early time of this year before the COVID-19 has been identified.

3. Communications

[Website and social networks]

Website	https://knightconnect.campuslabs.com/engage/organization/iahr
Facebook	https://www.facebook.com/groups/IAHR.UCF/

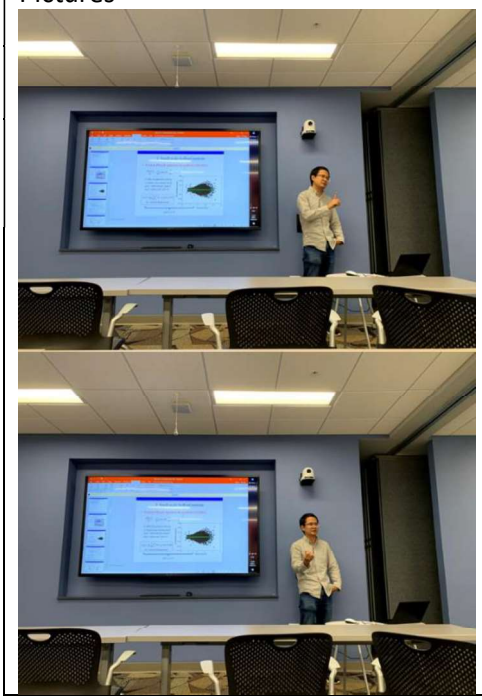
4. Activities

Activity 1

Pictures	Name of the activity: Dr. Taylor Perron's seminar
	Dates: February 4th 2020

	Objective: Delivering opportunities for professional development
	Description: Dr. Taylor Perron is one of the well-known scientists in the field of Earth, Atmospheric & Planetary Sciences from MIT. In February 2020, IAHR UCF invited Dr. Perron to speak at UCF. Dr. Perron's lecture was on "The imprint of rivers on biodiversity and planetary topography".

Activity 2

Pictures 	Name of the activity Water First Seminars
	Dates March 4th 2020
	Objectives Delivering opportunities for professional development
	Description The transport of bedload sediment particles (e.g., sand and gravel) and the complex bedforms formed on the riverbed exert significant control on aquatic life, water quality, and infrastructure safety. IAHR UCF hosted a seminar led by Dr. Zi Wu, a postdoctoral researcher working with Dr. Arvind Singh at University of Central Florida, in March 2020. Dr. Wu gave a presentation on "Bedload sediment tracer motions and anomalous transport across different timescales.

Other Activities

Other activities were cancelled because of COVID-19 pandemic.

5. Contributing to the strategic plan

6.1. 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)

IAHR aims to bring together the world's engineers, experts, researchers and organizations to accelerate solutions and knowledge discovery about the water environment. To contribute to this aim, IAHR UCF YNP provides a platform for our members to learn the high-level research related to the water resources engineering in the world. Specifically, we have invited well-known scientists in the field of water resources engineering to give talks at UCF. In addition to that, to inspire our members to get engaged in addressing the global water challenges. During each seminar, we arranged a student meeting, in which our members were invited to present their own research. Then our guests and members had discussions regarding their research problems.

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

Our YPN has more members during this year, which helps enlarge the impacts of IAHR YPN in student group at UCF. Different seminars gave the opportunity to present the work from well-known scientists as well as our members. Our YPN has contributed to build an international community of top scholars and researchers in water science and engineering.