

# IAHR Hakim Sabzevari Young Professionals Network

2020 Annual Report of Activities



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### 1. Introduction

At first, we hope all and relatives are healthy and do not suffer too much from the consequences of the Covid19 pandemic that is still strongly affecting all of us. During the difficult passed year, we in IAHR Hakim Sabzevari Young Professionals Network tried to keep our activities and develop them in different fields. **2020 main goal and key objectives**

During the 2020 we focused on development of our Fluid Mechanics and Hydraulic Laboratory (FMHL) at Hakim Sabzevari University (HSU) and established many equipment's and features on it.

### 2. Communications

Instagram	Hydraulic.Structures
Telegram Channel	HydraulicStructures1

3. Activities



**Activity 1**

**Name of the activity :**

Fluid mechanics and Hydraulic  
 Laboratory

**Date:**

September/2020

**Objectives:**

research and laboratory work.

**Description:**

The laboratory is divided into two sections, one for undergraduate students and the other for postgraduate students. There are two rooms in the laboratory for postgraduate students to be able to use them during office hours. Due to the coronavirus epidemic, the presence of students is limited and is done in accordance with health protocols.



**Activity 2**

**Name of the activity :**

Visiting Sadid Earth Dam  
 And  
 Visiting Groundwater Aquifer Feeding  
 Projects

**Date:**

April/2020

**Objectives:**

Scientific visit to increase students' field information

**Description:**

Due to the importance of field visits in the fields of hydraulic structures and water engineering and water resources management, all students visited the Sadid Earth Dam with Dr. Hamed Sarkardeh. This dam is located at 15 km far from Sabzevar city and prevents the damages from the occurred floods in Sadid village and also provides the water for agricultural irrigation demands. Then all the information about this type of dam was taught to students by Dr. Sarkardeh.

Groundwater aquifer feeding projects have been implemented by Mohajer Engineer in

Farimaneh village near to the Sabzevar city. In these projects, a dam with sand and stone mortar has been built downstream of the mountain, and the speed of runoffs are reduced and it

**Activity 3**



***Name of the activity:***

Attending and introducing IAHR to the other Iranian students, institutes, and universities to promote membership at 18<sup>th</sup> Iranian Hydraulic Conference at University of Tehran

***Date:***

February/2020

***Objectives:***

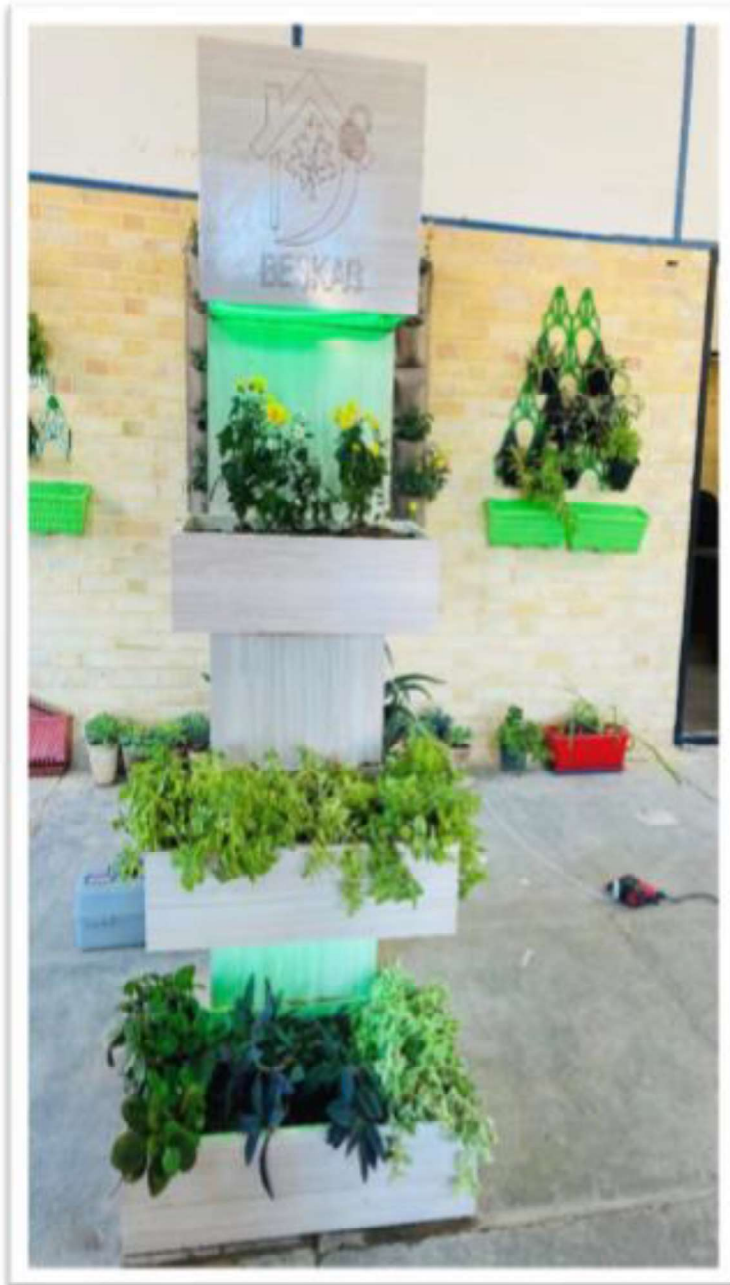
Introducing IAHR  
 Attracting interested students

***Description:***

It was a conference at University of Tehran for two days and we introduced IAHR and YPN at second day and it was attractive to everyone who was there and was well received.



#### Activity 4



***Name of the activity:***

Establishing knowledge-based company

***Date:***

September/2020

***Objectives:***

Attention to sustainable development in the construction industry and the environment.

***Description:***

In addition to the research works that are doing in the laboratory, a knowledge-based company was established with the help of Dr. Sarkardeh and students. Due to the sustainable development in the construction industry and the environment, the company produces green walls and roof garden. The company intends to convert unused spaces in buildings and urban environments to a pleasant space for people.