



# IAHR Roma Tre Young Professionals Network

## 2021 Annual Report of Activities

### 1. Introduction

The IAHR aims at connecting professionals and students in the hydro-environmental field all over the world. The Young Professional Network Roma Tre has been part of this mission since 2020 as a team. The IAHR Roma Tre YPN brings together a group of PhD students and young professionals with engineering and physics backgrounds from Roma Tre University in Rome, Italy.

### 2. 2021 main goal and key objectives

The network aims to promote the exchange of experiences, research progresses and skills in different areas of hydraulics and related environmental sciences with broader interest in experimental, theoretical and computational fluid mechanics. We will strive to foster an inclusive and collaborative research network based on planned seminars and webinars.

### 3. Composition

#### Officers

President

Maria Chiara	De Falco
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Vice President

Maria Rita	Maggi
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Advisor

Claudia	Adduce
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[Please add as many officers as needed]

#### List of members

Name	Surname	Country	Membership category (student or professional affiliate)
Ester	Marafini	Italy	Professional Aff.
Rossella	Belloni	Italy	Professional Aff.
Stefano	Miliani	Italy	Professional Aff.
Jacopo	Busatto	Italy	Professional Aff.

#### 4. Communications

Website	<a href="https://www.iahr.org/index/committe/124">https://www.iahr.org/index/committe/124</a>
Facebook	N/A
Twitter	N/A
Instagram	N/A
Linkedin	<a href="https://www.linkedin.com/company/iahr-roma-tre-ypn">https://www.linkedin.com/company/iahr-roma-tre-ypn</a>
Other	


Newsletter/s	N/A
Publication/s	N/A
Other	

#### 5. Activities

##### Activity 1

 <p>The banner features a blue background with a world map. It includes the IAHR logo, AIRH logo, and Young Professionals Network logo. Text on the banner includes '2nd IAHR Young Professionals Congress', 'ypcongress.iahr.org', and 'Hosted by Spain Water and IWHR, China'. The hashtag #iahrYpCongress is also present.</p>	Participation at 2nd IAHR YPN Congress (online)
	30 <sup>th</sup> November – 2 <sup>nd</sup> December 2021
	<p>Objectives:</p> <ul style="list-style-type: none"> <li>- Keeping informed about current research topics;</li> <li>- Sharing of our main findings with other participants;</li> <li>- New connections with other YPN.</li> </ul>
	Opportunity for the YPN members to be introduced in the YPNs and IAHR community and present the research works .

Activity 2

	<p>Participation at the webinar on “Experimental Methods and Laboratory instrumentation in Hydraulics”.</p>
	<p>13<sup>th</sup> – 15<sup>nd</sup> April 2021</p>
	<p>Objectives:</p> <ul style="list-style-type: none"> <li>- Keeping informed about innovative experimental methods and laboratory instrumentation;</li> <li>- Sharing of our experimental techniques with other participants.</li> </ul>
<p>The webinar promoted experimental methods, instruments, measurement techniques, and data analysis routines for hydro-environment studies at the laboratory scale.</p>	

Activity 3


<p>Picture/s</p>	<p>Course of “Probability, statistical analysis and stochastic processes”.</p>
	<p>June - July 2021</p>
	<p>Objectives:</p> <ul style="list-style-type: none"> <li>- To acquire knowledge on spatial distributed data and time series;</li> <li>- To acquire knowledge on probabilistic schemes and testes;</li> </ul>

	<ul style="list-style-type: none"> <li>- Simulations of random processes using the Wolfram Mathematica software.</li> </ul> <p>Description: The course will make the students familiar with the concept of uncertainty and randomness essential for a comprehensive data acquisition and analysis.</p>
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#### Activity 4

<p>Picture/s</p>	<p>Short Course on Geophysical Methods for Near Surface and Subsurface Characterisation.</p>
	<p>10<sup>th</sup> - 14<sup>th</sup> May 2021.</p>
	<p>Objectives:</p> <ul style="list-style-type: none"> <li>- Being able to understand the physical principles of important geophysical methods;</li> <li>- Be familiar and aware of the popular geophysical methods;</li> <li>- Be able to select and apply best suited or appropriate geophysical methods.</li> </ul>
	<p>Description: In this course the application of study of the physical properties of earth and its application to understand subsurface features and structures will be taught with suitable case studies.</p>

#### Activity 5

<p>Picture/s</p> 	<p>Summer Social Dinner</p>
	<p>26<sup>th</sup> July 2021.</p>
	<p>Objectives:</p> <ul style="list-style-type: none"> <li>- Motivating membership;</li> <li>- Promoting membership of other young professionals from Roma Tre Engineering Department.</li> </ul>
	<p>Description: Social occasion among the members of the YPN and other young researchers of Roma Tre Engineering Department.</p>



## 6. Partnerships and collaborations

Organisation	Description of partnership
CNR-ISMAR	Some of our members collaborate with the organization in order to conduct their researchers.

## 7. Contributing to the IAHR strategic plan

Our activities in the present year have spread the studies of our members as well as promoted collaborations with other young professionals. Furthermore, the courses that our members attended helped to improve the knowledge necessary to enhance the research quality.