

IAHR ROMA TRE YOUNG PROFESSIONALS NETWORK

2022 Annual Report of Activities



Roma Tre
**Young
Professionals
Network**



1. Our vision and mission

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. Main goals and key objectives in 2022

In 2022 our network goals were 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. To reach our aims we took part as a group in various activities and events both nationally and internationally.

3. Activities in 2022

 <p>The image shows the official logo for the 39th IAHR World Congress, Granada, Spain 2022, with the theme 'From Snow to Sea' and dates '19-24 June 2022'. It also includes two photographs: one of a presentation screen at the congress and another of a group of young professionals posing for a photo.</p>	39th IAHR WORLD CONGRESS
	Date/s
	19-24 June 2022
	Venue
	Granada, Spain
Objectives	
<i>-Keeping informed about current research topics;</i>	
<i>-Sharing of our main findings with other participants;</i>	
<i>-Opportunity for new connections.</i>	
Description	
The central theme of the Congress was “From Snow to Sea”, linking past with present and focusing attention on the importance of considering the integral	

water cycle to address present and future challenges. Regular sessions and special sessions were organized in collaboration with worldwide experts in the different fields.



7th IAHR EUROPE CONGRESS

Date/s

7-9 September 2022

Venue

Athens, Greece

Objectives

-To provide a platform to renown professionals, researchers, scientists, and engineers, to interact and explore innovative ways to face the challenges on hydro-environmental sciences and their practical applications.

-To share researches and practical experiences, advance the education of younger.

Description

The Congress promoted both research and it's application, and by so doing strived to contribute to sustainable development, the optimisation of the world's water resources management and industrial

flow processes. Moreover a wide variety activities including: special sessions and keynote speakers were provided.



MAKER FAIR and RESEARCH NIGHT

Date/s

30 September and 7-9 October 2022

Venue

Rome, Italy

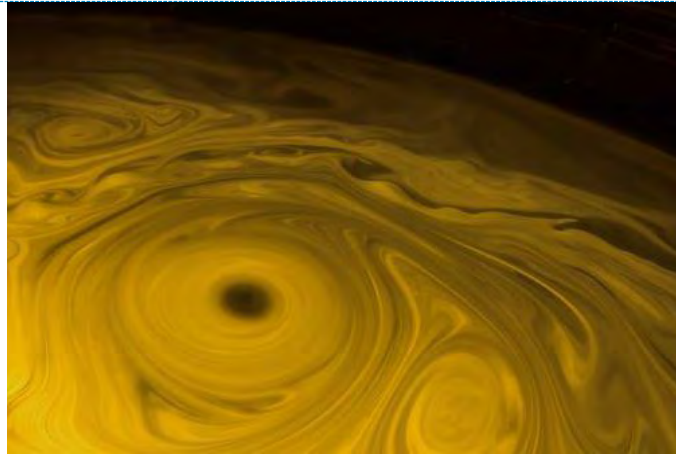
Objectives

To bring science and researchers among citizens, young people and students.

Description

To give the opportunity to show the research contributions to the society.

SEMINAR: The turbulent life of downslope gravity currents by Maria Eletta Negretti, CNRS Researcher (Chargée de Recherche) in the Laboratoire des Ecoulements Géophysiques et Industrielles (LEGI)

**Date/s**

09 October 2022

Venue

Roma Tre University,
Rome (IT)

Objectives

Analysis of buoyancy driven flows dynamics in rotating and non-rotating environments, with special focus on gravity currents.

Description

The seminar was focused on downslope currents induced by density differences represent one of the key submesoscale processes that lead to energy transfers to larger/smaller scales, impact the thermohaline structure and the vertical exchange of water masses in the ocean, and hence play a crucial role for the overall ocean circulation and climate.



RIVER FLOW 2022

Date/s

8-10 November 2022

Venue

Online

Objectives

- to present and discuss the latest experimental, theoretical and computational findings

	<p><i>on fundamental river flow and transport processes, river morphology and morphodynamics.</i></p>
	<p>Description</p> <p>River Flow conferences offered Master Classes for young researchers, daily keynote lectures, ample time for the presentation and discussion of accepted contributions</p>

	<p>3rd IAHR YPCongress</p>
	<p>Date/s</p> <p>28 Nov. – 2 Dec. 2022</p>
	<p>Venue</p> <p>Online</p>
	<p>Objectives</p> <ul style="list-style-type: none"> -<i>Keeping informed about current research topics;</i> -<i>Sharing of our main findings with other participants;</i> -<i>New connections with other YPN.</i>
	<p>Description</p> <p>Opportunity for the YPN members to be introduced in the</p>

YPNs and IAHR community and present the research works.

	<p style="text-align: center;">PhD Life</p> <p style="text-align: center;">Every two months</p> <p style="text-align: center;">Roma Tre University, Rome, Italy</p> <p><i>to promote interactions/collaborations that help improve the ecosystem of research in our department.</i></p> <p>Description Social event that aims to strengthen interactions between PhD students. Three PhD students and one senior expert propose brief presentations to inspire the whole group on multiple research topics.</p>
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4. Partnerships and collaborations

4.1. Partnerships

Some of our members collaborate with the followed organizations in order to conduct their researches:

- 1) Marine science institute CNR-ISMAR
- 2) Laboratory of Geophysical and Industrial Flows CNRS-LEGI
- 3) University of Lisbon

4.2. Collaboration with other YPNs

The end of the pandemic and the numerous events organized by the IAHR provided an opportunity to meet young and experts researchers in the field related to the hydro-environmental sciences. This year our activity focused on spreading the studies of our members and carry out knowledge exchange through YPs. Our next step will be to promote collaborations with other young professionals.

Communication channels

Linkedin: <https://www.linkedin.com/company/iahr-roma-tre-ypn>