



# IAHR Panama Young Professionals Network

## 2021 Annual Report of Activities

### 1. Introduction

IAHR Panama YPN was founded by a group of motivated young professionals to organize the YPN activities during the 38th IAHR World Congress held in Panama City in September 2019. Since then, the group has grown and has been very active promoting and organizing (virtual) activities both locally in Panama and regionally in Latin America.

The chapter's mission is to promote the development of technical capacities in the general field of hydro-environmental sciences (water, environment, and renewable energies) and engineering for students and young professionals, and to influence the Panamanian society through interdisciplinary scientific research to achieve a more resilient and sustainable country.

The group's vision is to become a national reference in the field of hydro-environmental sciences (water, environment, and renewable energies) and engineering for the design of sustainable solutions through a holistic and interdisciplinary approach, involving the Panamanian professional youth, including universities, public and private sectors.

### 2. 2021 Main Goal and Key Objectives

The main goal of 2021 was to continue with our mission of scientific communication by promoting research, professionalism, and environmental education, virtually, through our social networks, demonstrating adaptation to the pandemic situation. On the other hand, we focused on preparing a new leadership team within the chapter.

Our main objectives during 2021 were to:

- Recruit new members
- Prepare a new team of young professionals to become members of the Executive Committee thus ensuring a smooth transition from the leadership of the founding members of the chapter
- Continue with the *Agua y Café* interview programme and create a version of the show for YouTube
- Campaign for environmental education through social media
- Promote active participation within the chapter
- Recognize active members
- Explore strategies to promote research and get more young professional involved in scientific research

### 3. Composition

#### 3.1. Leadership Team

<b>President</b>	María Gabriela Castrellón
<b>Vice-President</b>	Isaac Trejos
<b>Secretary</b>	Zuri Rodríguez
<b>Treasurer</b>	Saskia Jimenez
<b>PR</b>	Karol Marquéz
<b>Main Adviser</b>	Dr. Lucas Calvo
<b>Co-Adviser</b>	Dr. José Fábrega
<b>Co-Adviser</b>	Gladys Bernet

#### 3.2. List of members

<b>Name</b>	<b>Surname</b>	<b>Country</b>	<b>Membership category (student or professional affiliate)</b>
Isaac	Trejos Saucedo	Panama	PRO
María Gabriela	Castrellón	Panama	PRO
Xenia	De Gracia	United States of America	PRO
Saskia Marcellys	Jimenez Mendoza	Panama	PRO
Arcenio Abdiel	Martinez Ortega	Panama	STU
Digna Esilda	Murillo Gonzalez	Panama	STU
Ivan Oscar	Abrego Miranda	Panama	STU
Yarelis Yarineth	Melgar Frias	Panama	PRO
Yaxuri Lineth	Munoz Garcia	Panama	STU
Zuri Sadai	Rodríguez Guerra	Panama	STU
Donald	Brown	Costa Rica	PRO
Michell	Baxter	Panama	PRO
María Victoria	Mitre Núñez	Panama	PRO
Mabel Cristina	Zúñiga Quintero	Panama	PRO
Bella	Almillátegui Martínez	Spain	PRO
Carol Patricia	Simon González	Panama	PRO
Ana Karolina	Valencia	Panama	PRO
Alex	Montero	Panama	STU
Gabriela	Cedeño Pernet	Panama	PRO
Mileyka	Bustamante	Panama	PRO
Alicia	Mata	Panama	PRO
Job Osvaldo	Noel Amaya	Panama	PRO
Kimberly	Beermann	Panama	PRO

Omar	Pérez	Panama	PRO
Miguel	Delgado	Panama	STU
Luzzby	Mezua	Panama	PRO
Karoll	Fuentes	Panama	STU
Lizzy Tatiana	Molina Donaire	Panama	STU
Krystelis	Lasso	Panama	STU
Ana	Aguilar	Germany	PRO
Nicolle	González Ramos	Panama	PRO
Marlemys	Martínez	Panama	PRO
Nicolle Elena	Thoms	Panama	PRO
Jorge Manuel	Castillo Beitia	Panama	STU
José	Murillo	Panama	PRO
Graciela	Sánchez	Panama	STU
Ruby	Salcedo	Panama	PRO
David Alexis	De Gracia Rios	Panama	PRO
Meibilin	Valdivieso Ruíz	Panama	STU
Dominique	Vertus Aguilar	Panama	STU
Itzel	Jordán	Panama	PRO
Aristides	Isaza	Panama	STU
Marissa	Samudio	Panama	PRO
Claudia	Agudo	Panama	PRO
Yaneth	Laffaurie	Panama	PRO
Anais	Garzón	Panama	PRO
Danna	Villarreal	Panama	STU
Karol Michelle	Márquez Watson	Panama	STU
Itzel Alejandra	Bustavino González	Panama	PRO
Víctor	Gomez	Panama	PRO
Jose Ricardo	Bonilla Brenes	Germany	PRO

## 4. Communications

### 4.1. Website and Social Networks

Network	Name	Link
Website	-----	-----
Facebook	IAHR Panamá YPN @ypnpanama	<a href="https://www.facebook.com/ypnp/anama/">https://www.facebook.com/ypnp/anama/</a>
Twitter	@ypnpanama	<a href="https://twitter.com/ypnpanama?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor">https://twitter.com/ypnpanama?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor</a>
Instagram	@ypnpanama	<a href="https://www.instagram.com/ypnp/anama/?hl=es">https://www.instagram.com/ypnp/anama/?hl=es</a>

LinkedIn	IAHR YPN Panama Chapter	<a href="https://pa.linkedin.com/in/iahr-ypn-panama-chapter-aa478a194?trk=public_profile_samename-profile_profile-result-card_result-card_full-click">https://pa.linkedin.com/in/iahr-ypn-panama-chapter-aa478a194?trk=public_profile_samename-profile_profile-result-card_result-card_full-click</a>
YouTube	IAHR Panama YPN	<a href="https://www.youtube.com/channel/UCSdu6zmqhXZHvdT5jsfuV3A">https://www.youtube.com/channel/UCSdu6zmqhXZHvdT5jsfuV3A</a>

#### 4.2. Newsletter/s

Currently IAHR Panama YPN does not create or distribute a newsletter.

#### 4.3. Publication/s

##### 4.3.1. Publications on Instagram

Name	Link
First General Meeting 2021	<a href="https://www.instagram.com/p/CMdtHlsh6QG/?utm_source=ig_web_copy_link">https://www.instagram.com/p/CMdtHlsh6QG/?utm_source=ig_web_copy_link</a>
Publication of an article "Future Water Awareness" by one of our members.	<a href="https://www.instagram.com/p/CMqVVSXghWvE/?utm_source=ig_web_copy_link">https://www.instagram.com/p/CMqVVSXghWvE/?utm_source=ig_web_copy_link</a>
Graduate work of members in Water Resources	<a href="https://www.instagram.com/p/CMxdQFWhR3/?utm_source=ig_web_copy_link">https://www.instagram.com/p/CMxdQFWhR3/?utm_source=ig_web_copy_link</a>
Second Anniversary of YPN Panama	<a href="https://www.instagram.com/p/CTSoovXvReWs/?utm_source=ig_web_copy_link">https://www.instagram.com/p/CTSoovXvReWs/?utm_source=ig_web_copy_link</a>
What is YPN Panama	<a href="https://www.instagram.com/p/CSZ7hPSrHXh/?utm_source=ig_web_copy_link">https://www.instagram.com/p/CSZ7hPSrHXh/?utm_source=ig_web_copy_link</a>
New member registration reminder	<a href="https://www.instagram.com/p/CNp4-DuBf15/?utm_medium=copy_link">https://www.instagram.com/p/CNp4-DuBf15/?utm_medium=copy_link</a>
Invitation to participate in the 5th March for Science	<a href="https://www.instagram.com/p/CN2p9bXnSxC/?utm_medium=copy_link">https://www.instagram.com/p/CN2p9bXnSxC/?utm_medium=copy_link</a>
Invitation to register for the 1st Online Forum IAHR	<a href="https://www.instagram.com/p/CPjkbp7B918/?utm_medium=copy_link">https://www.instagram.com/p/CPjkbp7B918/?utm_medium=copy_link</a>
How to read and analyze a scientific article?	<a href="https://www.instagram.com/p/CN3yB7xBqET/?utm_source=ig_web_copy_link">https://www.instagram.com/p/CN3yB7xBqET/?utm_source=ig_web_copy_link</a>

Acknowledgement of our Adviser Gladys Bernet's publication "Girls, young women, dreams and diamonds".	<a href="https://www.instagram.com/p/CNylUwKhONW/?utm_source=ig_web_copy_link">https://www.instagram.com/p/CNylUwKhONW/?utm_source=ig_web_copy_link</a>
---	---

#### 4.3.2. Publications on YouTube

Name	Link
World Earth Day Video	<a href="https://i.ytimg.com/vi/Tu4AZceUhoQ/hqdefault.jpg?sqp=-oaymwEcCPYBEloBSFXyq4qpAw4IARUAAIhCGAFwAcABBg==&amp;rs=AOn4CLDooRrM0rKgZlloqGu45BZvAfvrQ">https://i.ytimg.com/vi/Tu4AZceUhoQ/hqdefault.jpg?sqp=-oaymwEcCPYBEloBSFXyq4qpAw4IARUAAIhCGAFwAcABBg==&amp;rs=AOn4CLDooRrM0rKgZlloqGu45BZvAfvrQ</a>
Agua y Café Élite #1 (Water and Coffee Elite #1)	<a href="https://www.youtube.com/watch?v=V-CKE17NNIo&amp;t=2435s">https://www.youtube.com/watch?v=V-CKE17NNIo&amp;t=2435s</a>
Agua y Café Élite #2 (Water and Coffee Elite #2)	<a href="https://www.youtube.com/watch?v=q6BOHLUALaE">https://www.youtube.com/watch?v=q6BOHLUALaE</a>

## 5. Activities

### Activity 1

Picture/s	Name of the activity
	<p><b>"Agua y Café" (Water and Coffee)</b></p>
	<p><b>Dates</b></p> <p>4/16/2021 4/23/2021 5/11/2021 5/14/2021 5/21/2021 5/28/2021 7/23/2021 8/06/2021 8/20/2021 9/24/2021</p>
	<p><b>Objetives</b></p> <ul style="list-style-type: none"> <li>Connect with national and international young professionals that work on research topics in the fields of water, energy and the environment.</li> </ul>

## 2021 Annual Report of Activities

 <p><a href="#">See more &gt;&gt;&gt;</a></p>	<ul style="list-style-type: none"> <li>• Provide our followers with information about the interviewees personal experiences and lessons learned throughout their careers.</li> <li>• Encourage young people to continue to and get involved in water, energy and environmental research.</li> </ul> <p><b>Description</b></p> <p>Live broadcast program on Instagram, usually on weekdays, where for about 30 minutes to 1.5 hours we strive to connect with young professionals by talking about what they do, how they became passionate about their careers, and defining technical terms from their everyday work. We also often talk about tools and software that can be implemented and also recommend courses for students who are interested in the topics discussed, what analysis they can give on the current situation of the topic discussed at regional level and what they would say to young people who have the same passion to fight for their dreams. During the conversation we also generate other questions from the viewers as well as from the host to make the program more interactive. All these transmissions are saved in our Instagram account so that users of the platform can rewatch them.</p>
---	---

### Activity 2

<p style="text-align: center;"><b>Picture/s</b></p> 	<p><b>Name of the activity</b> "Días Mundiales" (World Days)</p> <hr/> <p><b>Dates</b> 3/22/2021 4/22/2021 5/17/2021 6/5/2021 6/8/2021 6/23/2021 9/21/2021 9/24/2021 12/5/2021</p>
---	--

 <p style="text-align: center;"><a href="#">See more &gt;&gt;&gt;</a></p>	<p><b>Objectives</b> Highlight the history of where the World Environment Day comes from.</p> <p><b>Description</b> Through original social media publications, we raise awareness about: The initial year this world day is celebrated, why it is important, and give a closing message to encourage people to continue caring for and researching the natural resource that is being celebrated.</p>
--	--

Activity 3

<p style="text-align: center;"><b>Picture/s</b></p>  	<p><b>Name of the activity</b> “Agua y Café Élite” Water and Coffee Élite</p> <p><b>Dates</b> 7/3/2021 9/28/2021</p> <p><b>Objectives</b> To interview researchers with great impact on science both in Panama and internationally.</p> <p><b>Description</b> Live broadcast program on YouTube, usually on a Saturday, from our IAHR Panama YPN account, where we talk about the trajectory of the researcher in their field and discuss their point of view on current situations of their specializations. The topics discussed are linked to the 3 pillars of our research committee: Water, energy and environment.</p>
---	--

Activity 4

Picture/s	Name of the activity
 <p style="text-align: center;"><a href="#">See more &gt;&gt;&gt;</a></p>	<p><b>“Miembro YPN PANAMA del mes” (YPN PANAMA Member of the Month)</b></p> <p><b>Dates</b> 5/27/2021 9/7/2021 10/30/2021 11/29/2021 12/30/2021</p> <p><b>Objectives</b></p> <p>To showcase the work of our members, their learning within the network and encourage other young people to become interested in participating in IAHR activities.</p>
	<p><b>Description</b></p> <p>Publications about outstanding members within YPN PANAMA and a space where they can talk more about them and make known the people who carry out and devise each activity of our network.</p> <p>In addition to close with an exhortation that more young people are interested worldwide.</p>

Activity 5

Picture/s	Name of the activity
 <p style="text-align: center;"><a href="#">See more &gt;&gt;&gt;</a></p>	<p><b>Publications of events related to research</b></p> <p><b>Dates</b>            3/21/2021            3/21/2021            4/14/2021            4/19/2021            5/6/2021            5/31/2021            8/6/2021            8/24/2021            9/28/2021            10/9/2021            11/8/2021            11/16/2021</p> <p><b>Objectives</b></p> <p>To provide tools for young people to learn about learning opportunities in different areas, whether at the national, regional, or global level.</p> <p><b>Description</b></p> <p>Publications with information on activities for young people to participate and be trained in topics related to water and environmental research.</p> <p>Also support activities of other organizations to promote professional growth activities as well as the expansion of activities of other organizations in our networks to create greater connections between youth and professionals.</p>

Activity 6

Picture/s	Name of the activity <b>Research from YPN Panama Members</b>
 <p><a href="#">See more &gt;&gt;&gt;</a></p>	<p><b>Dates</b></p> <p>3/20/2021 3/21/2021 3/23/2021 3/24/2021 3/25/2021 3/26/2021 4/22/2021 5/20/2021 5/29/2021 6/20/2021 6/21/2021 6/22/2021 6/23/2021 3/20/2021 9/28/2021</p> <p><b>Objectives</b></p> <p>Highlight the achievements of young Panamanian researchers.</p> <p><b>Description</b></p> <p>Publication of information on research topics within YPN Panama to demonstrate their participation in congresses and showcase environmental research project being developed in Panama.</p>

Activity 7

	<p><b>Name of the activity</b> Webinar on scientific article</p>
	<p><b>Dates</b> 4/19/2021</p>
	<p><b>Objectives</b> Teach and demonstrate techniques for reading and analyzing a scientific article.</p>
	<p><b>Description</b> Free webinar of 1.5 hours lead by a specialist from the Technological University of Panama to introduce the topic of scientific publications. Tips on the correct way to read a scientific article and how to analyze it were given.</p>

6. Partnerships and collaborations

Partner organizations and/or interaction with related national organizations

Organization	Description of partnership
EducationUSA	Our presidents and other members of the leadership team have participated in their webinars and events to promote topics of water engineering and research, especially hydroinformatics within the youth (high school and university students).
Student Energy	Partnership to promote research on a regional research forum.

Collaboration with other YPNs

YPN name	Description of collaboration
IAHR Mexico YPN	IAHR Panama YPN helped promote the Latin American Congress through social media.

## 7. Contributing to the IAHR strategic plan

### 7.1. Describe how your activities in 2021 have contributed to the vision and strategic plan of the IAHR.

Within the YPN Panama this 2021 we have strengthened and created new scientific relationships with other institutions and professionals inside and outside the country, with the objective of expanding the knowledge of each of its members and educating the Panamanian population in the topics of water, environment and energy. Likewise, we have highlighted the work done by members within the YPN, making them known in the scientific community through Instagram posts that highlights their goals and idelas. We have also communicated our country's scientific research in areas of interest through social media, thus fulfilling the vision of the IAHR which is to disseminate and communicate scientific knowledge.

### 7.2. Describe how your YPN contributes to the high-level objectives of the IAHR YPN.

We contribute to the objectives of the IAHR YPN by providing our professionals and students with opportunities to be trained, either by participating in the activities of the different committees that compose our YPN or carrying out the organization of these activities. This helps our members to develop as leaders who seek the common good of the organization. We also seek to generate connections with professionals in different areas of interest from different parts of the country and the region, offer symposia and interviews about topics focused on our lines of work water, renewable energy, and environment.

Each month we strive to provide information related to research that is taking place in our country, we also promote scientific exchange with different YPN's in the region, who also offer talks, interviews about interesting topics for professionals and young people who wish to learn and acquire new knowledge.

## ADDITIONAL MATERIAL

### Activity 1. Agua y Cafe



IAHR YPN Panama Young Professionals Network

INSTAGRAM LIVE

## Agua y Café

Tomemos un café con el Ing. Ricardo Guete quien nos acompañará platicando sobre "Los Sistema de Información Geográfica (SIG)"



Sintoniza este Viernes 23 de abril a las 5:00 p. m. por: @ypnpanama



IAHR YPN Panama Young Professionals Network

INSTAGRAM LIVE

## Agua y Café

Tomemos un café con Diego Ferro quien nos acompañará platicando sobre "Manejo de Residuos con la Fundación Costa Recicla"



Sintoniza este Viernes 21 de mayo a las 4:00 p. m. por: @ypnpanama



IAHR YPN Panama Young Professionals Network

INSTAGRAM LIVE

## Agua y Café

Tomemos un café con José Mendoza quien nos acompañará platicando sobre "La posición de Panamá con respecto a energías provenientes de fuentes renovables"



Sintoniza este Viernes 28 de mayo a las 2:00 p. m. por: @ypnpanama



IAHR YPN Panama Young Professionals Network

INSTAGRAM LIVE

## Agua y Café

Tomemos un café con Andrew Sellers quien nos acompañará platicando sobre "Océanos Panameños"



Sintoniza este Viernes 11 de mayo a las 5:00 p. m. por: @ypnpanama




IAHR Panama Young Professionals Network

INSTAGRAM LIVE

### Agua y Café

Tomemos un café con José Brandao quien nos acompañará platicando sobre "Agricultura sostenible y la adaptación de Panamá a este contexto"



Sintoniza este Viernes 23 de julio a las 2:00 p. m. por: @ypnpanama



IAHR Panama Young Professionals Network

INSTAGRAM LIVE

### Agua y Café

Tomemos un café con Keyla Ramirez quien nos acompañará platicando sobre "Lazos entre la geología y la geofísica"



Sintoniza este Viernes 6 de agosto a las 2:30 p. m. Panamá, 3:30 p. m. Venezuela por: @ypnpanama



IAHR Panama Young Professionals Network

INSTAGRAM LIVE

### Agua y Café

Tomemos un café con Lanneth Barrera quien nos acompañará platicando sobre "Los Manglares y su importancia en Panamá"



Sintoniza este Viernes 20 de agosto a las 4:00 p. m. por: @ypnpanama



IAHR Panama Young Professionals Network

INSTAGRAM LIVE

### Agua y Café

Tomemos un café con Adriana Guatame quien nos acompañará platicando sobre "Manejo de Desechos Mineros"



Sintoniza este Viernes 24 de septiembre a las 3:30 p. m. por: @ypnpanama

Activity 2. Worlds Days





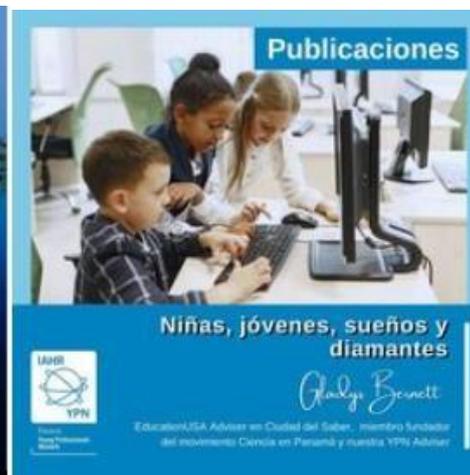
#### Activity 4. YPN PANAMA Member of the Month



Activity 5. Publications of events related to research



Activity 6. YPN PANAMA Member Research



**Publicación**

**Simposio**  
**Las aguas subterráneas en el Arco Seco de Panamá: un tesoro por explorar**

Exposición	Orador
El recurso hídrico en el Arco Seco	Dra. Melisabel Muñoz
Modelos Hidrogeológicos Conceptuales Aplicados en el Arco Seco de Panamá	Ing. María Gabriela Castellón, MSc.

**Presentación en XVIII congreso de APANAC 2021**

*María Gabriela Castellón*

IAHR YPN

Presidenta de IAHR PANAMÁ YPN  
Ingeniera en Recursos Hídricos / Hidrologa

**XVII CONGRESO NACIONAL DE CIENCIA Y TECNOLOGÍA APANAC 2021**

REUTILIZACIÓN DE LAS AGUAS RESIDUALES TRATADAS PARA RIEGO CASO DE ESTUDIO: EFLUENTE DE LA PLANTA DE TRATAMIENTO DE AGUAS RESIDUALES DE CHITRÉ, PANAMÁ (2019-2020).



**Expositora:**  
*Liz Miller Gal*

**INFORMACIÓN DEL EVENTO**  
DÍA: 24 DE JUNIO  
HORA: 10:00 AM A 10:15 AM.  
LINEA TEMÁTICA: CIENCIAS AMBIENTALES Y CAMBIO CLIMÁTICO. NÚMERO: 194  
<http://congreso.apanac.org.pa/>

IAHR YPN Panama Young Professionals Network

**XVII CONGRESO NACIONAL DE CIENCIA Y TECNOLOGÍA APANAC 2021**

ESTIMACIÓN Y ANÁLISIS DE LA DEMANDA HÍDRICA DE LA SUBCUENCA DEL RÍO ESTIBANÁ COMO PARTE DEL BALANCE HÍDRICO (2018-2019).



**Expositores:**  
*Arcenio Martínez*  
*Zuri Rodríguez*

**INFORMACIÓN DEL EVENTO**  
DÍA: 24 DE JUNIO  
HORA: 11:15 AM A 11:30 AM.  
LINEA TEMÁTICA: CIENCIAS AMBIENTALES Y CAMBIO CLIMÁTICO. NÚMERO: 193  
<http://congreso.apanac.org.pa/>

IAHR YPN Panama Young Professionals Network

**XVII CONGRESO NACIONAL DE CIENCIA Y TECNOLOGÍA APANAC 2021**

CARACTERIZACIÓN DE LA TEXTURA DE SUELO EN LA SUBCUENCA DEL RÍO ZARATÍ PARA LA EVALUACIÓN DEL SISTEMA DE AGUA SUBTERRÁNEA



**Expositora:**  
*Karol Marquéz*

**INFORMACIÓN DEL EVENTO**  
DÍA: 24 DE JUNIO  
HORA: 11:45 AM A 12:00 M.  
LINEA TEMÁTICA: CIENCIAS AMBIENTALES Y CAMBIO CLIMÁTICO. NÚMERO: 195  
<http://congreso.apanac.org.pa/>

IAHR YPN Panama Young Professionals Network

**XVII CONGRESO NACIONAL DE CIENCIA Y TECNOLOGÍA APANAC 2021**

"INSPECCIÓN AL CICLO DE VIDA DE PROYECTOS DE CONSTRUCCIÓN SOSTENIBLE: HACIA UNA HOJA DE RUTA BASADA EN BIOMIMETISMO Y ECONOMÍA CIRCULAR"



**Expositora:**  
*Kimberly K. Beermann*

DÍA: 24 DE JUNIO  
"MODALIDAD DE PÓSTER"  
CATEGORÍA: AMBIENTE Y CAMBIO CLIMÁTICO  
NÚMERO: 201  
<http://congreso.apanac.org.pa/>

IAHR YPN Panama Young Professionals Network

**XVII CONGRESO NACIONAL DE CIENCIA Y TECNOLOGÍA APANAC 2021**

IDENTIFICACIÓN DE ÁREAS DE RECARGA A TRAVÉS DE UN MODELO HIDROLÓGICO EN LA REGIÓN DEL ARCO SECO DE PANAMÁ



**Expositor:**  
*Joh Noel*  
INGENIERO - HIDRÓLOGO

**INFORMACIÓN DEL EVENTO**  
DÍA: 24 DE JUNIO  
HORA: 10:45 AM.  
CATEGORÍA: AMBIENTE Y CAMBIO CLIMÁTICO  
NÚMERO: 201  
<http://congreso.apanac.org.pa/>

IAHR YPN Panama Young Professionals Network