



**THE INTER-AMERICAN NETWORK
OF ACADEMIES OF SCIENCES**

IANAS IS MEMBER AFFILIATED OF



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Our strength: 23 Academies of Sciences

**Hundreds of scientists actively collaborating
with IANAS.**



- » The mission of IANAS is to strengthen science communities in the hemisphere and to provide an independent source of science policy advice to governments on key challenges.
- » Since its inception IANAS has initiated active programs in **Science Education, Water Resources, Energy, Women for Science and Academy Capacity Building.**
- » **Four new Academies** from Ecuador, Honduras, Uruguay and the Academy of Cordoba (accorded observer status) and one Scientific Association APANAC (Panama) are now part of IANAS



PUNTA

CANA

DOMINICAN REPUBLIC

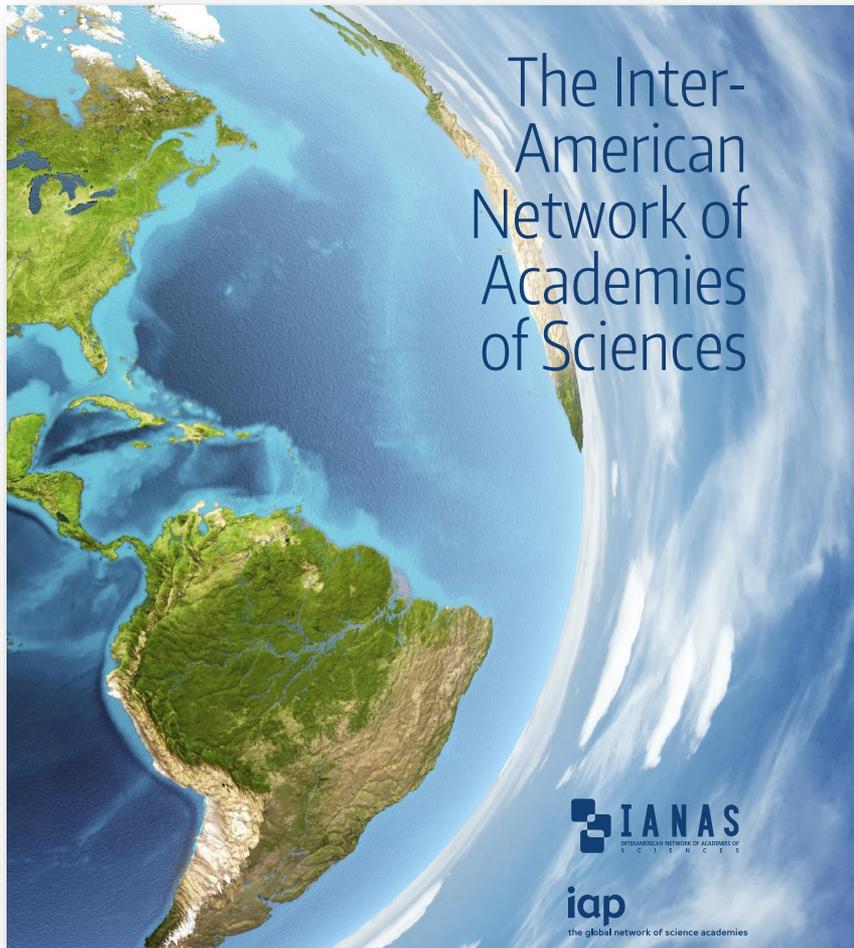
IANAS GENERAL ASSEMBLY
JULY 16-2013



**IANAS General
Assembly and
Scientific
Conference
“Impacts of Climate
Change, Disasters
and Hazards”
16 – 18 July 2013**



Capacity Building





The IANAS General Assembly 2016

Hosted by the **Brazilian Academy of Sciences** here the Presidents of the Academies of Sciences of the Americas with Co-chair **Juan A. Asenjo**, new elected Co-chair **Jeremy McNeil** and past Co-chair **Michael Clegg**.

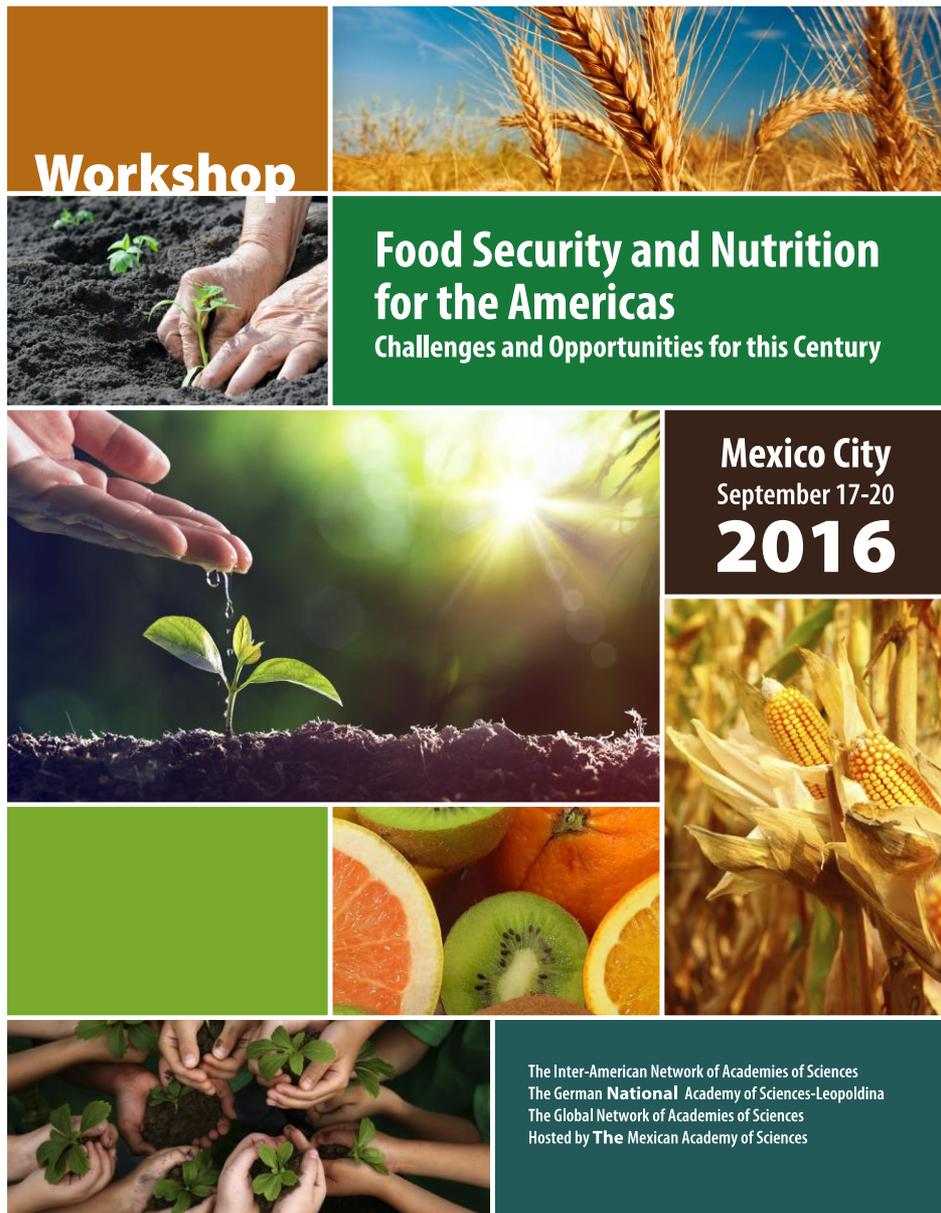
Hosted by the Brazilian Academy of Sciences on its **100th Anniversary**

Capacity Building The Food and Nutrition Security for the Americas

This initiative was proposed and supported by the **German National Academy of Sciences-Leopoldina and by IAP.**

80 scientists and experts met in Mexico City to finalize the contents of **two publications** -a book and an executive report. These publications will present the challenges and opportunities the Americas will face in the following 50 years.

**Chapter Coordinators Meeting
Lima, 13-16 March, 2017**
Peruvian Academy of Sciences



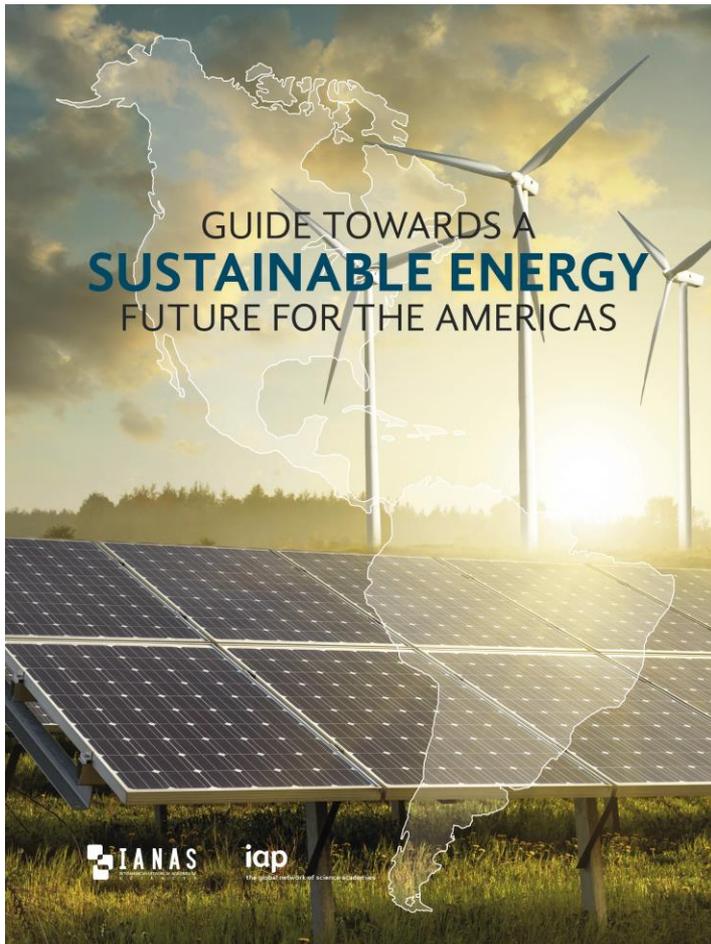
Workshop

**Food Security and Nutrition
for the Americas**
Challenges and Opportunities for this Century

Mexico City
September 17-20
2016

The Inter-American Network of Academies of Sciences
The German **National** Academy of Sciences-Leopoldina
The Global Network of Academies of Sciences
Hosted by **The** Mexican Academy of Sciences

The Energy Program



- **The publication was presented during the General Assembly May 2016 in Rio de Janeiro**
- It is available at ianas.org
- **The Program met in Arizona, 24-26 April 2017**

Energy Meeting at the Beckman Center Irvine, California, September 3 – 5, 2013



The Energy Program prepared a book on sustainable energy futures to highlight the critical role of science in energy sustainability and to also incorporate social, environmental and economic perspectives. The book expands on the public awareness of the role of science in current energy security, supply, cost, the role of women in the energy economy and climate change issues



Science Education Program

Hosted by the **National Academy of the Dominican Republic**, the Program met in **October 2016 (9-10)** to discuss the **publication** of a text examining the **experiences working with IBSE** and other methodologies in the Americas over the last decade.

The publication is in the final stages.

At the meeting the Focal Points met with local teachers and science professors and had a **workshop sharing common experiences.**



Working with Big Ideas of Science Education

Edited by Wynne Harlen

with Derek Bell, Rosa Devés, Hubert Dyasi,
Guillermo Fernández de la Garza, Pierre Léna,
Robin Millar, Michael Reiss, Patricia Rowell and Wei Yu

The experts who developed the Big Ideas of Science Education in 2014



10 ideas of science

1. All matter in the Universe is made of very small particles.
2. Objects can affect other objects at a distance.
3. Changing the movement of an object requires a net force to be acting on it.
4. The total amount of energy in the Universe is always the same but can be transferred from one energy store to another during an event.
5. The composition of the Earth and its atmosphere and the processes occurring within them shape the Earth's surface and its climate.
6. Our solar system is a very small part of one of billions of galaxies in the Universe.
7. Organisms are organised on a cellular basis and have a finite life span.
8. Organisms require a supply of energy and materials for which they often depend on, or compete with, other organisms.
9. Genetic information is passed down from one generation of organisms to another.
10. The diversity of organisms, living and extinct, is the result of evolution.

In 2007 18 Academies of Science of the Asia-Pacific Region met in Bangkok, Thailand to launch the FASAS/AASA Asia-Pacific regional network of science education programme in the IAP framework.



The Water Program

Hosted by the **Centre of Science and Technology of Antioquia**, the Water Program met in **November 2016 (21-26)** in **Medellin Colombia** to review the advances of the report on **Water Quality in the Americas** and to deliver the Executive Summary on **Urban Waters in the Americas**.

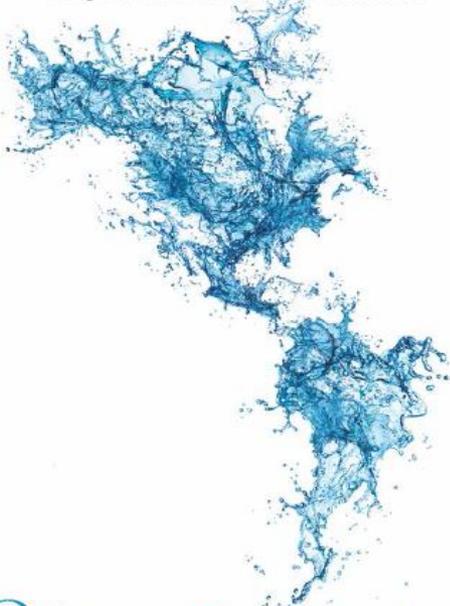
The IANAS Focal Points were invited to give different talks at the **National Symposium on Water** organized by the host institution.



Urban Water Challenges in the Americas: a View from the Academies of Sciences

DESAFÍOS DEL **AGUA URBANA** EN LAS AMÉRICAS

Perspectivas de las Academias de Ciencias

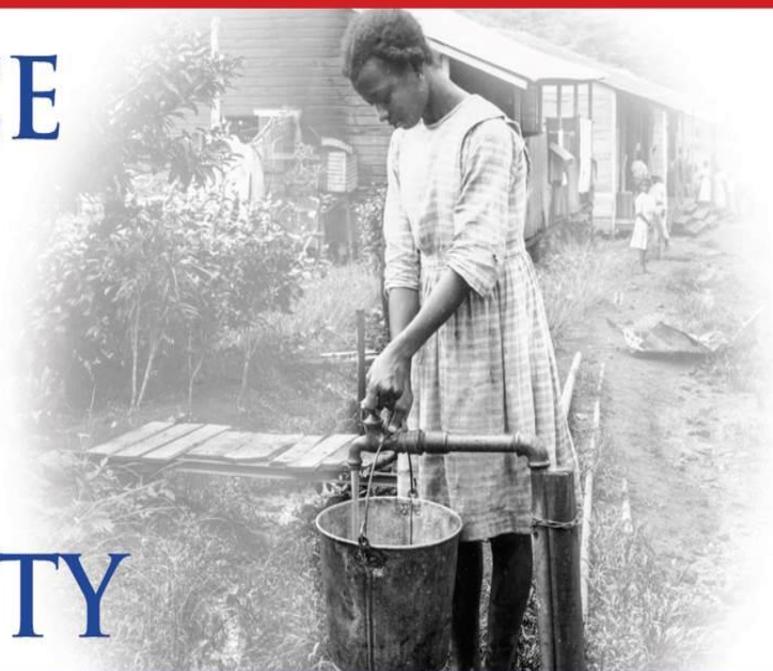


- Release of the book “**Urban Water Challenges in the Americas: A view from the Academies of Sciences**” in March 2015. The publication has been presented at public events in various countries and is available at most of the Academies of Sciences.<http://www.ianas.org/index.php/books>
- Approximately **200 scientists** from the Americas contributed to this volume.
- Book **partially supported by UNESCO IHP, IAP and the Mexican Academy of Sciences.**



NASAC/IANAS: SCIENCE for the WORLD

**SCIENCE
FOR
URBAN
WATER
SECURITY**



October 15-18, 2014 • Panama City, Panama



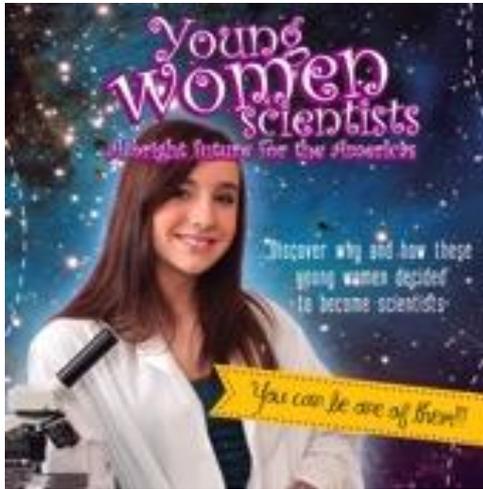
Ciudad del Saber
PANAMA
City of Knowledge



The Women for Science Program



IANAS Women for Science



A wonderful publication of short biographies on **young to mid career women** scientists in the Americas in both English and Spanish was released on International Women's Day March 8, 2016 entitled "***Young women scientists: a bright future for the Americas***"



A Prize for young women scientists honoring our inspiring WfS leader "**Anneke Levelt Sengers**"

IANAS Wfs Focal Points Meeting in Santiago with participation of ASSAf





WfS meeting at the NAS at Irvine, CA, 26-29 March 2017





- **Organized by the Brazilian Academy of Sciences (BAS), the National Academy of Medicine of Brazil (NAM) and the Oswaldo Cruz Foundation (Fiocruz)**
- **Supported by IAP for Health and the Inter-American Network of Academies of Sciences (IANAS), among others**



Opening Ceremony



Audience

- **November 7-8: The Zika Menace in the Americas: Challenges and Perspectives**
- **November 8-10: One year after the announcement of the national public health emergency in Brazil: lessons, achievements and challenges**

IANAS: Tangible results 2013-2017

- **IANAS Reports and other publications**
- *Diagnóstico del Agua en las Américas*. Spanish version released on March 2012/ ISBN 978-607-9217-04-4
- *Women Scientists in the Americas. Their inspiring Stories*. March 2013 / ISBN Pending
- *Mujeres Científicas de las Américas. Sus historias inspiradoras*. March 2013 / ISBN Pending
- *Cambio Climático. Evidencias, Impactos y Opciones*. July 2013 / Rights granted by NAS to IANAS for free public dissemination)
- *Diagnosis of Water in the Americas*. June 2013 ISBN 978-607-96209-2-9
- *Urban Water Challenges in the Americas: A perspective from the Academies of Sciences*. March 2015/ ISBN 978-607-8379-12-5
- *The Inter American Network of Academies of Science: An example of Science-Based cooperation in the Americas*. **AAAS Science & Diplomacy**. 03.30.2015. Clegg, M. T., J. A. Asenjo and A. de la Cruz. 2015
- *Survey of Women in the Academies of Sciences*. May 2015/ ISBN Pending

Key support – IANAS does a lot with a relatively small amount of funds but key contribution of individual Academies and its Members

- **IAP**
- **Mexican Academy of Sciences**
- US National Academy of Sciences
- UNESCO – IHP
- **Academies that have hosted various IANAS events**
- Adriana de la Cruz, Executive Director, and office staff in Mexico
- ICSU-ROLAC

Thank-you, Gracias, Obrigado, Merci

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