





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

IANAS Academies of Sciences

 <p>ANCEFN</p>	 <p>ACADEMIA BRASILEIRA DE CIENCIAS</p>	<p>National Academy of Sciences of Honduras</p>		 <p>THE INTER-AMERICAN NETWORK OF ACADEMIES OF SCIENCES</p>
				
<p>ACE</p> <p>ACADEMIA DE CIENCIAS DEL ECUADOR</p>		 <p>FUNDADA: XX-XII-SI-MEXLXIV ACADEMIA DE CIENCIAS DE LA REPUBLICA DOMINICANA</p>		
		 <p>ACADEMIA NACIONAL DE CIENCIAS LIMA - 1948</p>		 <p>Academia de Ciencias Físicas, Matemáticas y Naturales Venezuela</p>
			<p>Caribbean Scientific Union</p>	

Our strength:
23 Academies of Sciences
92 scientists actively
collaborating with IANAS in
five Programs.

- 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.
- In the short time since its inception IANAS has initiated active programs in **Science Education, Water Resources, Energy, Women for Science** and Academy **Capacity** Building.

IANAS General Assembly-Rio de Janeiro Hosted by the Brazilian Academy of Sciences



- Reviewed the network's actions in the 2013-2016 triennium
- Adopted a strategic plan for 2016-19 adopted revised Statutes and Rules of Procedures and
- Elected Co-Chairs and an Executive Committee to govern the network for the next three years (2016-2019).

IANAS EC Members 2013-2016



Our Programs:
Capacity Building
Science Education
Water, Energy,
Women for Science

Capacity Building

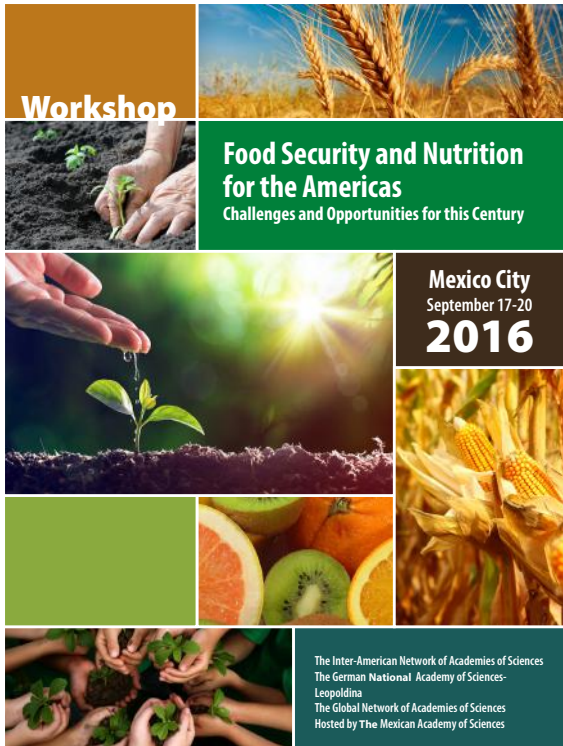


- IAP General Assembly
Hermanus February 28th to
March 2nd, 2016
- ANAS-CAS-CCC Meeting
and El Salvador Academy
project Meeting. San
Salvador, September
29th-30th
- “Food and Nutrition
Security for the
Americas” Workshop
Mexico City, September
17th-20th, 2016

Capacity Building: Food and Nutrition Security for the Americas

IANAS-The German National Academy of Sciences-Leopoldina-IAP
Hosted by the Mexican Academy of Sciences

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- Supported by the National German Academy of Sciences-Leopoldina and IAP
- Approximately 80 scientists from 20 countries of the Americas participated for this first stage.
- Inspired by the Water Program, each country will prepare a chapter and they collaborate with other experts when preparing their document.
- A general structure was approved and will be used as a guideline for each country. The section headings are:
 - I. National Characteristics;
 - II. Institutional Setting;
 - III. Resource and Ecosystem Characteristics;
 - IV. Technology and Innovation;
 - V. Increasing Efficiency of Food systems;
 - VI. Health considerations;
 - VII. Policy Considerations and Summary.

The Water Program

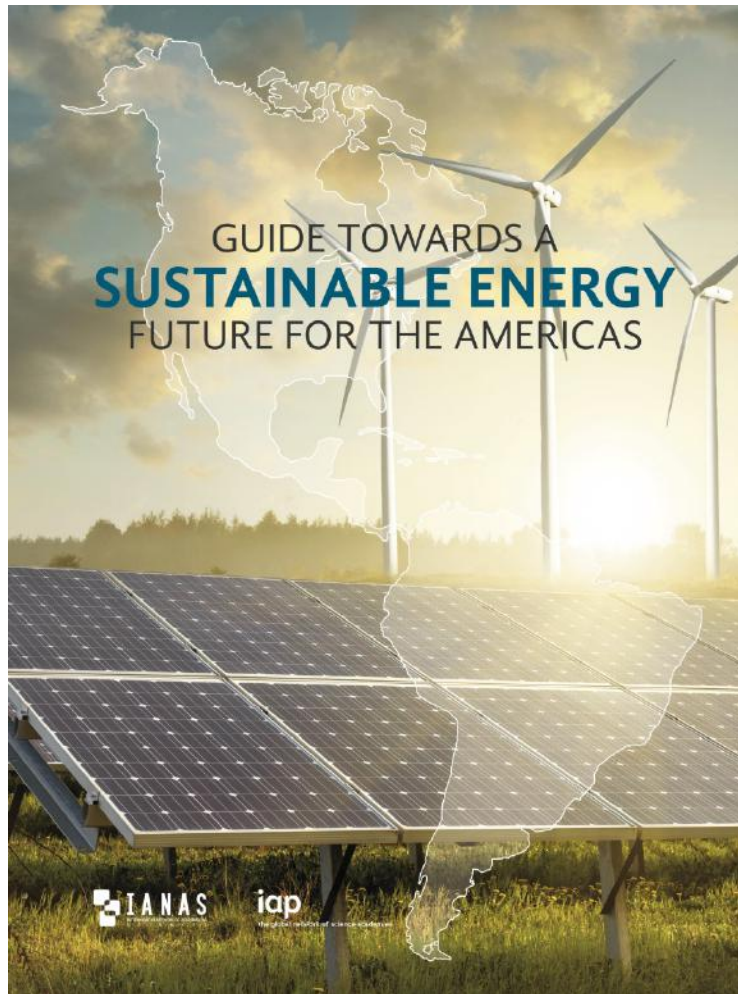


- The IANAS Water program recently released the book “*Urban Water Challenges in the Americas. A view from the Academies of Sciences*” and is currently working on an Executive Summary to facilitate the disseminate of the core findings in the publication.
- Currently the group is working on a detailed study examining Water Quality in the Americas and will be meeting to develop the final working plan in Medellin, Colombia in November, 2016.

IANAS General Assembly recognized the high quality work and commitment of the Water Program



Energy Program



- Released the book “Guide Towards a Sustainable Energy Future for the Americas”

Addressing important topics such as “Energy for Unserved Populations, Renewable Energy, Bioenergy, Energy Efficiency and Capacity Building”. Each chapter was written by experts identified by the different IANAS Academies.

The book is available now in Spanish and English at http://www.ianas.org/books/books_2016/book_energy_web.pdf

Energy Program: Crossroads with other IANAS Programas

- The Water Program and the Women for Science jointed efforts to develop a chapter
- Hosted by the Academy of Sciences of Dominican Republic, the Energy Program and Smart Villages met this November to discuss potential synergies.

Women, energy and water

The effects of gender and culture on the roles and responsibilities of women

Katherine Vammen | Nicaragua

Frances Henry | Canada

Nicole Bernex | Peru

Patricia L. Serrano-Taboada | Bolivia

Mario Jiménez | Nicaragua

Gustavo Sequiera | Nicaragua

Tomás Bazán | Panama

Summary

This chapter on Women, Energy and Water focuses on women and their capacity to access, use and control water and energy resources.

It also explains how water and energy are two resources that are interlinked and should be managed on the basis of the synergies that benefit both in achieving a sustainable energy future and watershed management.

The crucial role of environmental management is seen in case studies in developing countries in Latin America and special emphasis has been placed on the role of rural women in the production and use of energy.

The health aspects of the incorrect use of energy sources such as charcoal and firewood for cooking on a global scale have been reviewed. This leads to a broad analysis of how energy availability is one of the main limitations on social and economic development and the importance of involving women in future management and planning for improving energy planning.

The Women for Sciences

The Women for Science working group was hosted by the Academy of Physical, Mathematical and Natural Sciences of Venezuela on September 25th-29th, 2016 in Caracas.

The core activities will be focused:
development of a portal mentoring young women scientists of the Americas;
profile young women scientists who have established business based on their research findings, on our website.

SCIENCE EDUCATION PROGRAM



WATER

Venezuela Ernesto J. González Rivas Academy of Physical, Mathematical and Natural Sciences of Venezuela USA Henry Vaux Dept. of Agriculture and Resource Economics University of California, Berkeley Peru Julio Kuroiwa Zavallos National University of Engineering of Peru Nicaragua Katherine Vammen Investigation Center on Water Resources of Nicaragua Mexico Blanca Jiménez Co-Chair IANAS Water Program, Engineering Institute – UNAM -Mexican Academy of Sciences Guatemala Manuel Basterrechea Academy of Medical Physical and Natural Sciences of Guatemala Dominican Republic Osires de León Commission of Natural Sciences and Environment of the Science Academy Chile James McPhee (2012-2013) Chilean Academy of Sciences Cuba Daniela Mercedes Aurellano Acosta Academy of Sciences of Cuba Colombia Gabriel Roldan Academia Colombiana de Ciencias Exactas, Físicas y Naturales - ACCEFYN Caribbean Winston Mellowes Caribbean Academy of Sciences Canada Keith W. Hipel University of Waterloo, Ontario, Canada. Bolivia Fernando Urquidi National Academy of Sciences of Bolivia Brazil José Galizia Tundisi Co-Chair IANAS Water Program, International Institute of Technology. Marcos Cortesao Barnsley Scheuenstuhl Brazilian Academy of Sciences Argentina Raúl Lopardo National Institute of Water of Argentina

WOMEN FOR SCIENCE

Venezuela Liliana López Academy of Physical, Mathematical and Natural Sciences of Venezuela USA Johanna Levelt Sengers Co-Chair IANAS WFS National Institute of Standards and Technology Peru Ana Pastor (2011-2013) Ruth Shady (2013) National Academy of Sciences of Peru Nicaragua Lydia R. Zamora and Martha L. Lacayo Nicaraguan Academy of Sciences Mexico Rosaura Ruiz and Judith Zubieta García Mexican Academy of Sciences Guatemala María del Carmen Samayoa Academy of Medical Physical and Natural Sciences of Guatemala Dominican Republic Idelissa Bonnelly Founder Member of the Dominican Republic Academy of Sciences Chile Patricio Felmer Chilean Academy of Sciences Cuba Lilliam Álvarez Díaz Academy of Sciences of Cuba Colombia Margarita Perea Dallos Academia Colombiana de Ciencias Exactas, Físicas y Naturales - ACCEFYN Caribbean Neela Badrie Faculty of Science and Agriculture University of the West Indies Canada Frances Henry The Royal Society of Canada Bolivia Mónica Moraes R. National Academy of Sciences of Bolivia Brazil Lucia Mendonça Previato Brazilian Academy of Sciences Argentina Norma Sbarbati Nudelman National Academy of Sciences & Panama APANAC Asociación Panameña para el Avance de la Ciencia Marcela Paredes / Oris Sanjur Associate Director for Science Administration Smithsonian Tropical Research Institute Ecuador Carlos Alberto Soria Proaño Pontificia Universidad Católica del Ecuador Uruguay National Academy of Sciences of Uruguay OWSD Organization for Women in Science for the Developing World (OWSD) (S.Huyer 2011-2012)

ENERGY

Venezuela José Manuel Aller Academy of Physical, Mathematical and Natural Sciences of Venezuela USA John Millhone Co-Chair IANAS Energy Peru Manfred Horn Universidad Nacional de Ingeniería. National Academy of Sciences of Peru Nicaragua Claudio Wheelock Universidad Centroamericana (UCA), Managua, Nicaraguan Academy of Sciences Mexico Arturo - Fernández M, Mexican Academy of Sciences Guatemala Mario Guadalupe Hernández Academy of Medical Physical and Natural Sciences of Guatemala Ecuador Melio - Saénz Centre Latinoamericain de Calcul Scientifique et d'Informatique Industrielle Dominican Republic Manuel Peña, Comisión Nacional De Energia-Dominican Republic Academy of Sciences Cuba Daniel-Lopez Aldama Academy of Sciences of Cuba Colombia José María Rincón-Martínez Academia Colombiana de Ciencias Exactas, Físicas y Naturales - ACCEFYN Caribbean Anthony Clayton, Institute for Sustainable Development University of the West Indies Canada David Layzell Institute for Sustainable Energy, Environment and Economy/University of Calgary Bolivia Fernando Urquidi National Academy of Sciences of Bolivia Brazil Luís Augusto Barbosa Cortez, State University of Campinas – UNICAMP, Brazilian Academy of Sciences Argentina Mario Alberto Juan Mariscotti National Academy of Sciences

SCIENCE EDUCATION

Venezuela Claudio Bifano Academy of Physical, Mathematical and Natural Sciences of Venezuela USA Sally Shuler National Science Resources Center Peru Gustavo Francisco González Rengifo National Academy of Sciences of Peru Nicaragua Rafael Lucio Gil, Nicaraguan Academy of Sciences Mexico Carlos Bosch-Giral, Carmen Villavicencio and Silvia Romero. Mexican Academy of Sciences Guatemala María del Carmen Samayoa Academy of Medical Physical and Natural Sciences of Guatemala Dominican Republic Nelson Moreno Ceballos Academy of Sciences Cuba Augusto Oscar Álvarez Pomares Academy of Sciences of Cuba Costa Rica Gabriel Macaya Trejos National Academy of Sciences of Costa Rica Colombia José A. Lozano Academia Colombiana de Ciencias Exactas, Físicas y Naturales - ACCEFYN Caribbean Winston Mellowes University of the West Indies Chile Jorge E. Allende Chilean Academy of Science Canada Patricia M. Rowell University of Alberta/Royal Society of Canada Bolivia Elsa Ruth Quiroga Onostre National Academy of Sciences of Bolivia Brazil Marcos CortesaoBarnsleyScheuenstuhl Brazilian Academy of Sciences Argentina Norma Sbarbati Nudelman National Academy of Sciences & Panama Gladys N. Bernett National Secretariat of Science Technology and Innovation (SENACYT)

