Science Academies Working Together

Grand Challenges of Poverty Eradication & Sustainability



Why Is The Voice Of Science Crucial In Addressing 21st century challenges?

- Science is the world's most successful means of knowledge creation
  - Deals exclusively with arguments based on evidence
  - Results subject to independent confirmation by others

Why are Academies Important?

- Academies are **merit based** and include the scientific leadership within a country
- Academies are **self renewing** institutions, free from political interference.
- Academies have the **credibility** to inform the public and policy makers about looming problems and potential solutions

The power of networks

- Global Network of Science Academies (IAP)
  - 108 Members
  - Speaks for the world's science academies on major issues
- Why regional networks?
  - The major regions of the world are heterogeneous in cultures, environments and levels of economic development
  - Can translate global issues into a regional context
  - Reduces transaction costs
  - Increases academy engagement

The InterAmerican Network of Academies of Science (IANAS)

- **North America**
  The Academies of Arts, Humanities and Sciences of Canada *
  US National Academy of Sciences
  Mexican Academy of Sciences *

  Central America and the Caribbean
  Cuban Academy of Science
  Academy of Sciences of the Dominican Republic
  Academy of Medical, Physical and Natural Sciences of Guater
  National Academy of Sciences of Costa Rica
  Nicaraguan Academy of Sciences

  South America
  Academy of Physical, Mathematical and Natural Sciences of Venez
  Colombian Academy of Exact, Physical and Natural Sciences
  Brazilian Academy of Sciences *
  National Academy of Sciences of Peru
  National Academy of Sciences of Bolivia
  Chilean Academy of Science *
  National Academy of Exact, Physical and Natural of Argentina

  Regional Members and Other Future Members
  Latin American Academy of Science
  Caribbean Academy of Sciences
  Caribbean Scientific Union
  APANAC, Panama
  Academy of Science of Ecuador
  Academy of Science or Uruguay



IANAS Goals

- Enhancing **human resource development** in science, technology and health by improving the quality of science education;
- Developing programs that employ science to provide solutions to **major societal challenges such as water resource needs, energy development, disease surveillance, disaster mitigation, biodiversity loss, environmental pollution, and climate change;**
- **Linking with IAP/ IAMP / IAC** and others to organize regional workshops aimed at bringing the recommendations of IAC studies to policy makers;
- **Promoting STI (science, technology and innovation) strategies for economic development, poverty reduction and quality of life at the national and regional levels.**

IANAS Capacity building

- Assist in creation of new academies
- State Dept-funded technical visits program
- FAPESP science exchange program
- Science Communication workshop Buenos Aires
- Joint workshop with IAMP on non communicable diseases – Rio de Janeiro
- Lounesbery Foundation supported Young scientist meeting for Cuba, Mexico, the US and Caribbean
- Extending enquiry based science education approaches to the hemisphere

Capacity Building





- IANAS Short Term visitors program: 28 outstanding young scientists from Latin America were the awarded IANAS-Short term Fellowships, thanks to the funds provided by the NAS and the Department of State of the US.

Capacity Building

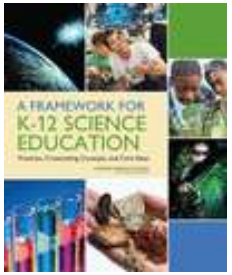
Access to scientific information…



























Science Communication

- IANAS organized a workshop on Science Communication attended by science writers and journalists from throughout the Americas. This very successful event was hosted by the Argentinean Academy and received financial support from IAP and NAS.



Discípulos de la ciencia

Destacados investigadores guatemaltecos han recibido la Medalla de Ciencia y Tecnología

Ciencia y Tecnología que otorga el Consejo Nacional de Ciencia y Tecnología (Concyt).

Un constante espíritu de búsqueda y la curiosidad como guía del aprendizaje es el denominador común de estos amantes de la ciencia. Ellos afirman que sin esta la vida sería como carecer de música o arte... Puede vivirse igual, pero los seres humanos se perderían de múltiples beneficios.

Grandes personas

El homenaje póstumo, que a finales del año recién pasado se le rindió al doctor Benjamín Itzerín, en el Instituto de Nutrición de Centroamérica y Panamá, fue conmovedor. Bonor, como le llamaban sus allegados, destacó por su inquisitivo y meticuloso carácter, que le permitió alcanzar muchos logros en beneficio de la niñez con problemas de desnutrición. Quién no quisiera ser recordado con tanto amor y agradecimiento!

Otro ejemplo de pasión, perseverancia y acuciosidad es la doctora en Entomología Carlota Monroy,

1997 1998 1999 2000 2001

- IANAS Water Program



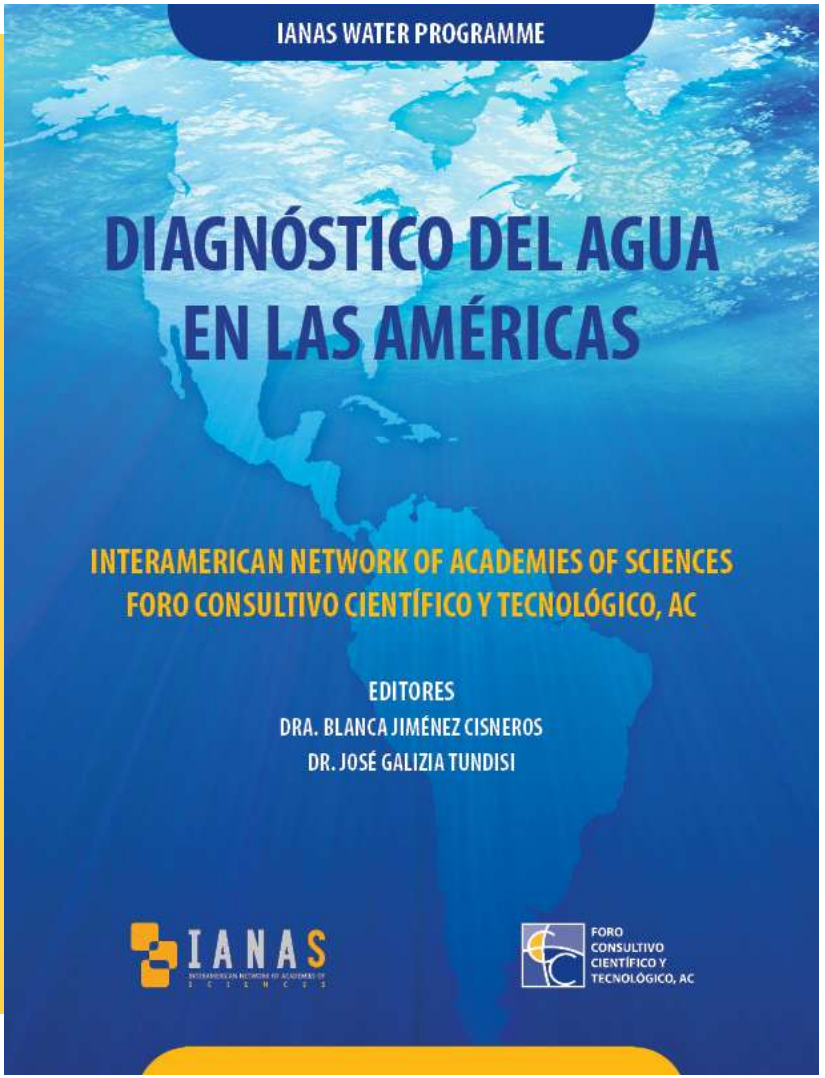
FOR IANAS

THE CHALLENGES OF WATER REQUIRES VIGOROUS SCIENTIFIC, TECHNOLOGICAL AND MANAGERIAL ACTIONS IN ORDER IMPROVE THE USE THE EXISTING SUPPLIES; RECOVER DEGRADED SURFACE AND GROUNDWATER RESERVES; AND SECURE FOR THE FUTURE GENERATIONS THE NECESSARY WATER RESOURCES

…

Water program





After the book presentation…



EL MERCURIO

Vida • Ciencia • Tecnología

SANTIAGO DE CHILE, JUEVES 22 DE MARZO DE 2012

Día Mundial del Agua:

Chile usa mejor su agua que el resto de América, pero aún no lo hace bien

Una normativa adecuada, que considere el factor ecológico, mejor información sobre las distintas zonas y una administración más eficiente, es lo que falta.

Calidad versus cantidad

Cambio Climático

Establecer los consecuencias del cambio climático en las políticas de agua es algo que todos los países deben hacer en forma perentoria.

Un monitoreo adecuado de los fuentes de agua permitiría enfrentar la sequía con datos como estas mediciones efectuadas en Los Molinos de Colchín.

Energy Futures Workshop Buenos Aires based on IAC report

October 30 and 31, 2008
Centro Argentino de Ingenieros
Cerrito 1250 - Buenos Aires - República Argentina

IANAS Workshop
"Toward a sustainable energy future"

IANAS Workshop
"Toward a sustainable energy future"

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Organizing Institutions

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Academia Nacional de Ciencias Exactas, Físicas y Naturales
Ministerio de Ciencia, Tecnología e Innovación Productiva
Presidencia de la Nación

the INTERACADEMY PANEL on international issues
iap
InterAcademy Council





LIGHTING THE WAY; TOWARD A SUSTAINABLE ENERGY FUTURE

December 2010 and June 2011
Two Energy Program meetings with 16 points of contact on in Bogota, Colombia. Each participant presented an energy report of its country.

2012
La Paz, Boliva priorities and targeted actions:

- **Energy for unserved populations.**
- **Renewable energy**.
- **Bioenergy.**
- **Energy Efficiency.**
- **Capacity Building (Innovation &Development)**
- **Crosscutting with IANAS: Women for Science and Water**

The topics will be lead by experts from different countries to prepare the IANAS Energy publication.

THE RESULTS: ACADEMIES ARE ACTIVELY ENGAGED WITH THE NETWORK

- IANAS Women for Science Program





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Panama,





"IANAS-Women for Science Prize"
Venezuela, 2012

2011
Meetings in Brazil and Mexico with focal points of the Program helped define common needs and goals.

2012
"IANAS OWSD Women for Science Prize", ceremony in Venezuela Clarimar Camacho, the awardee shared her hopes for a more inclusive society where "half of human kind should shares their part looking for a better world"

2013
This upcoming March 8, we will be launching the booklet "Women Scientists in the Americas. Their inspired stories" a common effort from Academies .The publication will be available at some of OAS sites.

The Bottom Line

- It is critically important that science, and scientists, achieve a much higher degree of influence throughout the world!

- Making international science organizations effective - An activist agenda