

The global collaboration of science academies for sustainable development

Dr Christiane Diehl
EASAC Executive Director

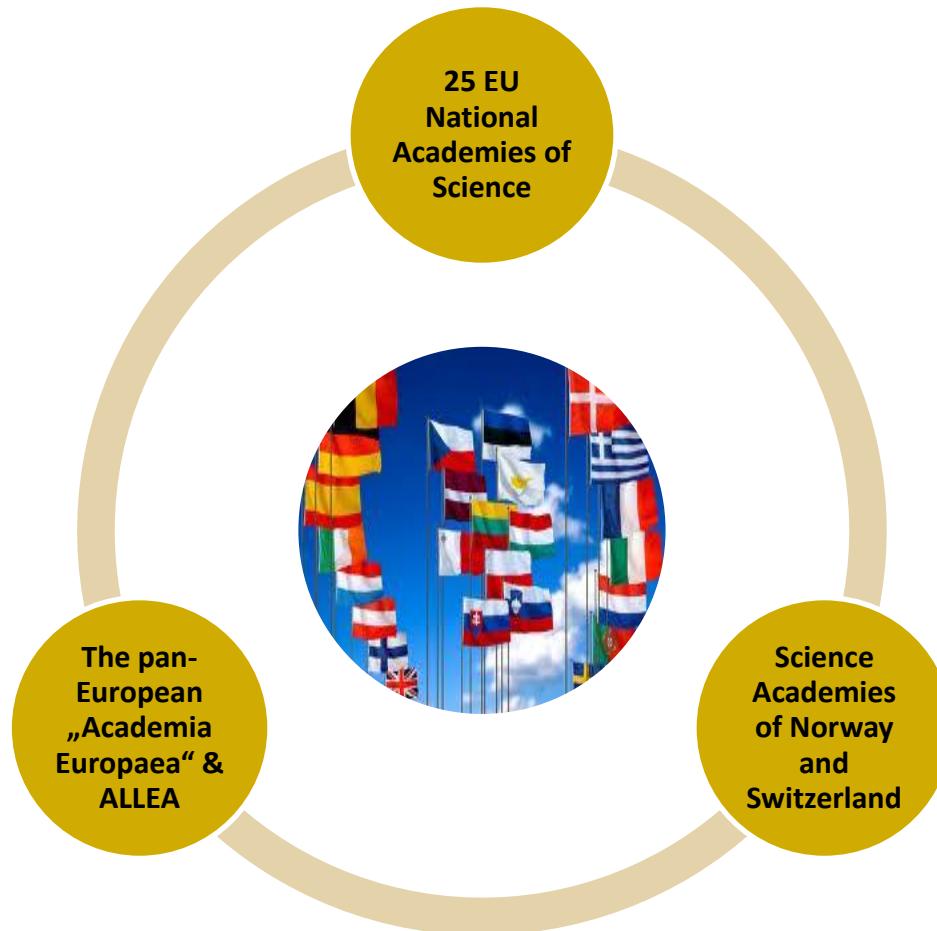
17th Session of the UN Commission on Science and Technology for Development, Palais des Nations 12-16 May 2014, Geneva

EASAC: the European Academies' Science Advisory Council

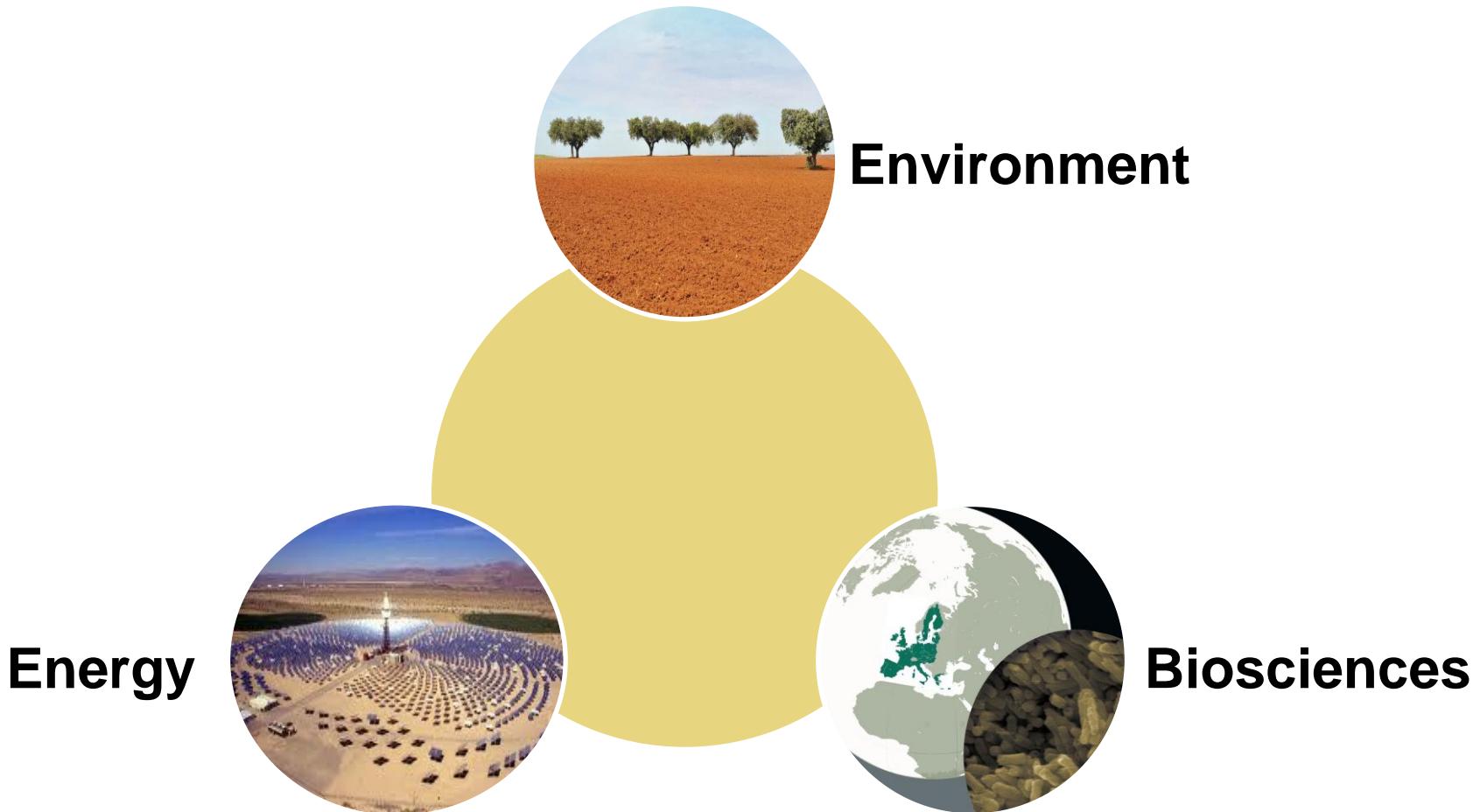


“Building science into EU policy”

EASAC membership



The EASAC programmes



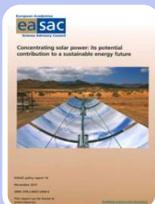
Some recent EASAC reports



Using crop genetic improvement technologies for sustainable agriculture



The current status of biofuels: their environmental impacts and future prospects



Concentrating solar power: its potential contribution to a sustainable energy future

Current collaboration between African and European science academies on Off-Grid Energy (“Village-level Energy”)

Agree on and formulate best science and technology options for off-grid energy solutions

Inform key stakeholders on the technologies - and the conditions necessary for development and implementation

Advise African and European policy-makers on the associated scientific and technology issues

The scale of the energy challenge

3 billion people use traditional fuels for household energy

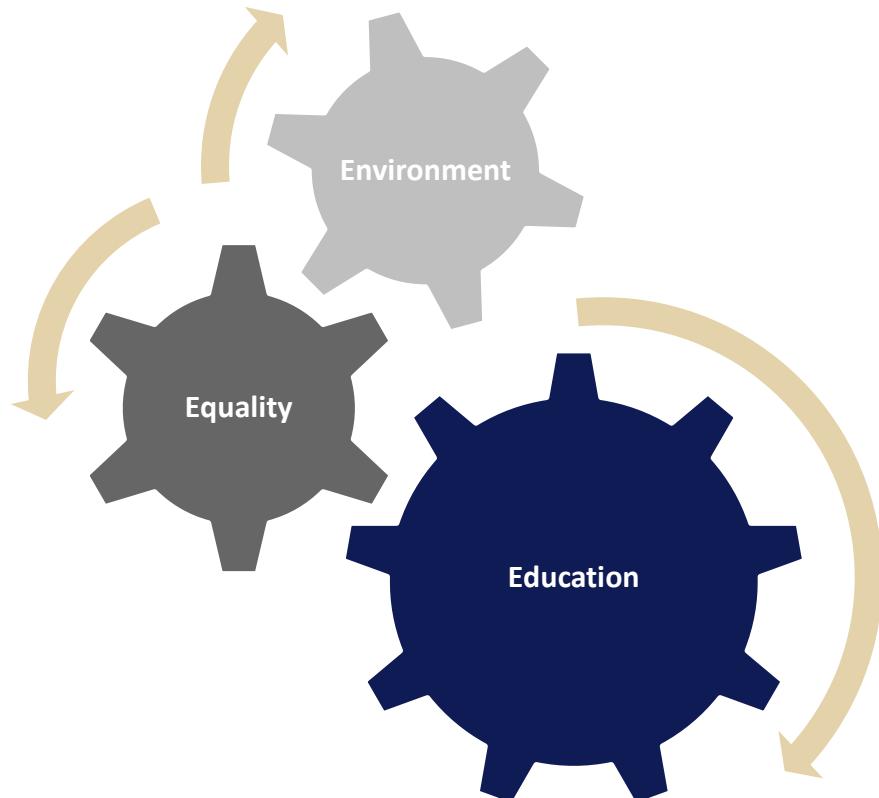
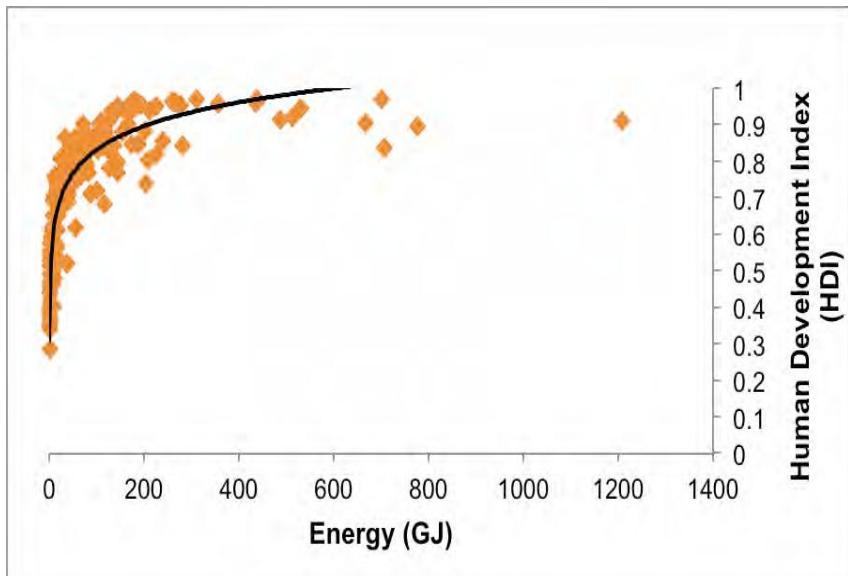
1.5 million die per year from the indoor air pollution created by traditional fuels

1.3 – 1.6 billion people are without electricity, with the large majority living in rural communities

Oil prices in real terms are 5 x what they were when OECD countries were at a similar stage of development

Relating energy to other key factors

Relationship of per capita energy consumption with human development index



Candidate energy technologies for off-grid villages



EASAC as part of the global network of science academies



Asia



Europe

America

Africa

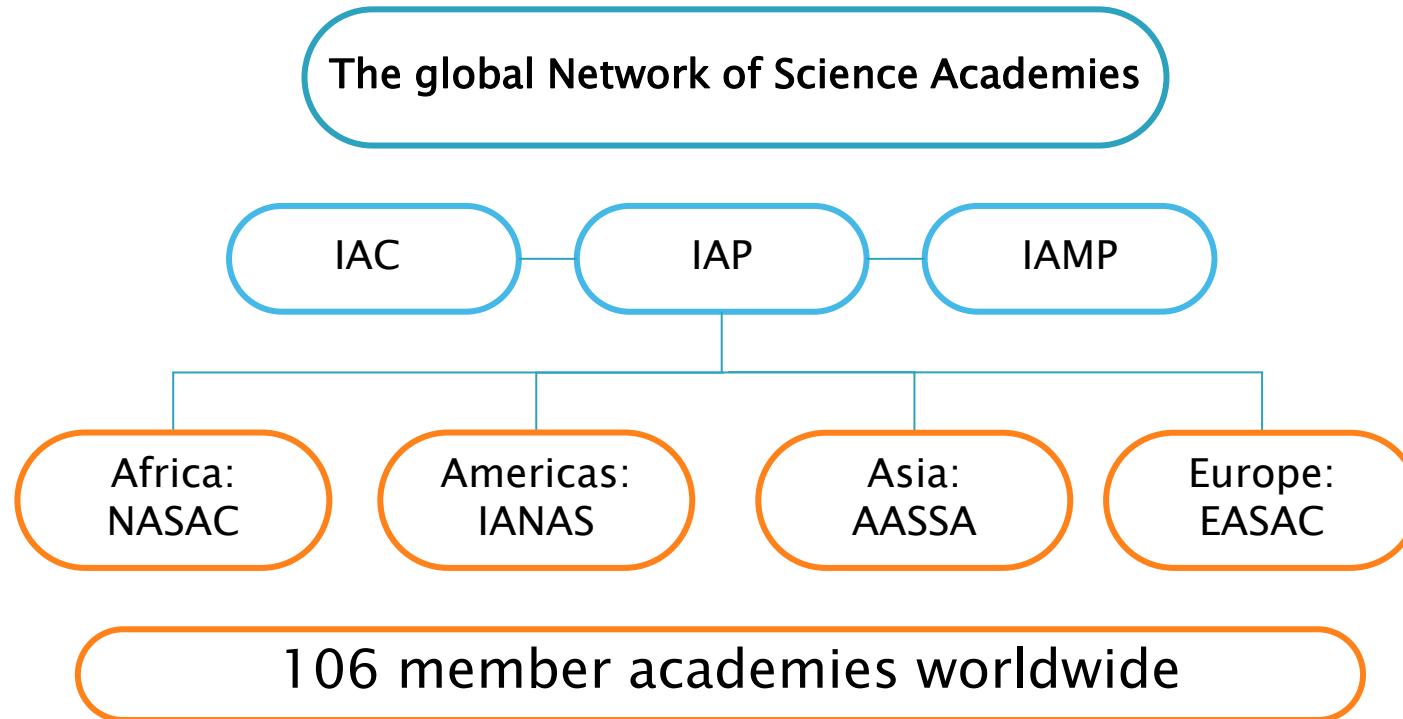
IAP – InterAcademy Panel

The Global Network of Science Academies



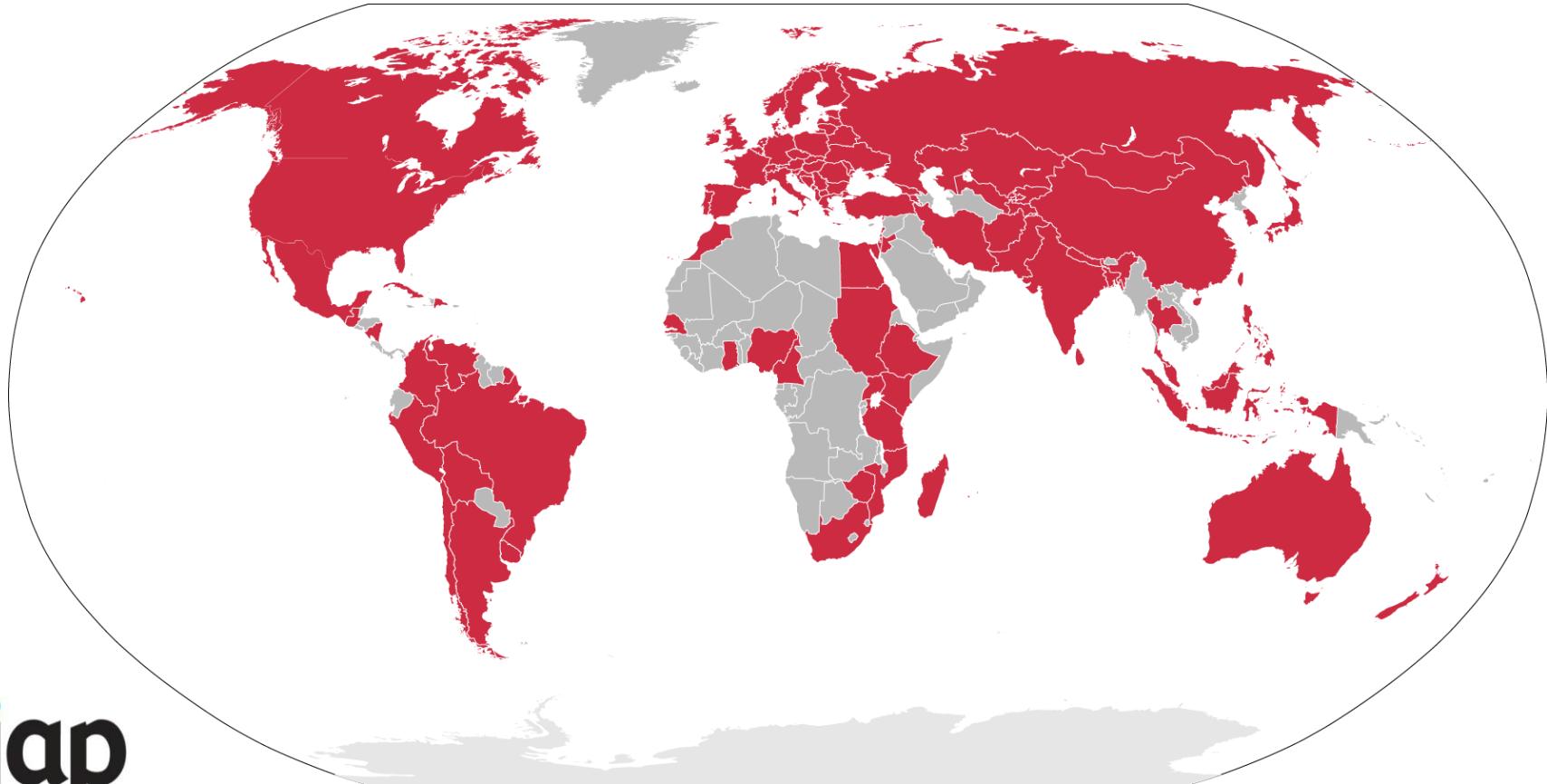
the global network of science academies

IAP Structure



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IAP Membership



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IAP Mission Statement

As an independent international forum bringing together the world's academies of sciences, IAP will serve as a platform for member academies to **develop mutual collaboration, common positions and actions on global and regional issues of importance to the future of humankind.**

IAP will also support member academies to **enhance their independent advisory capacities, help efforts to establish new merit-based academies in places where none exist, and facilitate the engagement of young scientists in science-based development issues of global significance.**

adopted Feb. 2013

IAP Objectives

- ▶ provision of high-quality, independent and evidence-based **policy advice** on global issues
- ▶ scientific advisory **capacity building**, science education, science communication
- ▶ closer **collaboration** among science academies and other scientific institutions

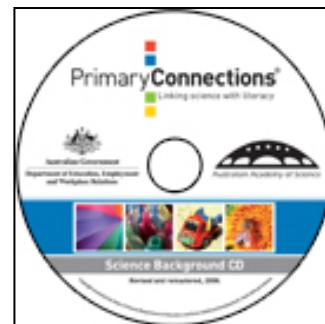
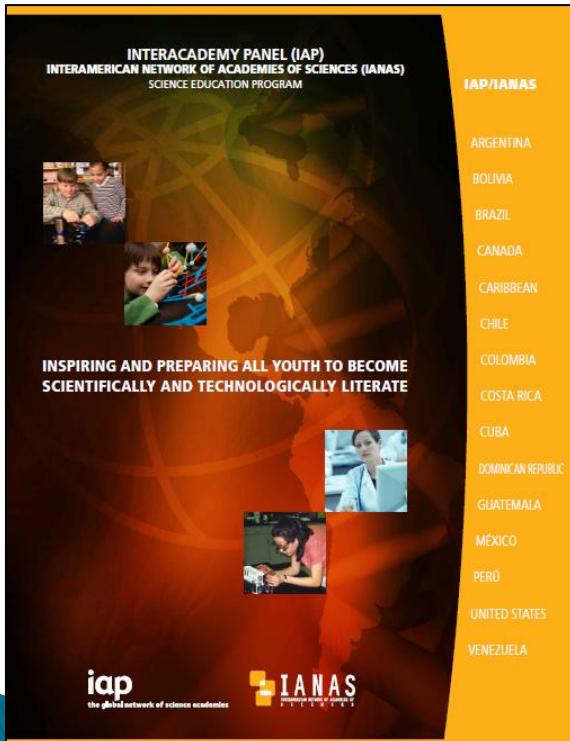
Strategic Plan III, adopted Feb. 2013



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Some recent projects

Global activities of the IAP Science Education Programme - Academia Chilena de Ciencias (& ALLEA, NASAC, IANAS)



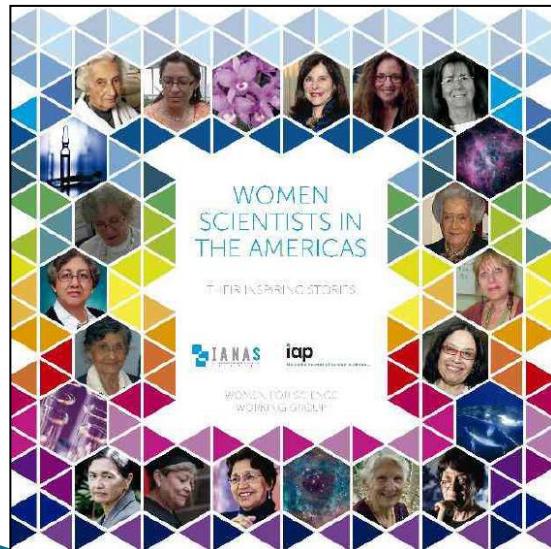
**Primary
Connections –
linking science with
literacy - Australian
Academy of Science**



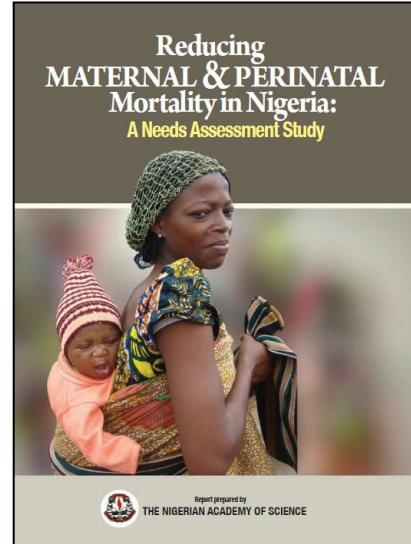
**GMOs in Africa:
challenges and
opportunities -
Academy of Science
of South Africa**

Recent projects II

Enabling and enhancing the participation of women in S&T booklet with the biography of 16 women scientists of the Americas - IANAS



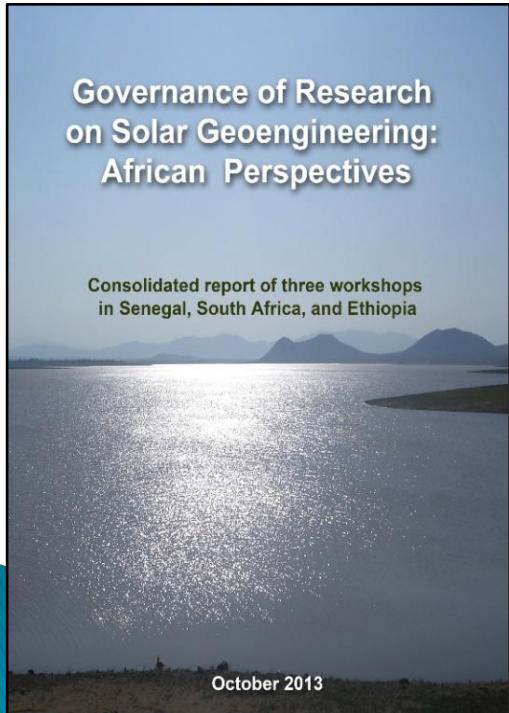
Pilot project Nigeria: Needs Assessment Study under IAMPS programme to reduce maternal and perinatal mortality in developing countries - Nigerian Academy of Science



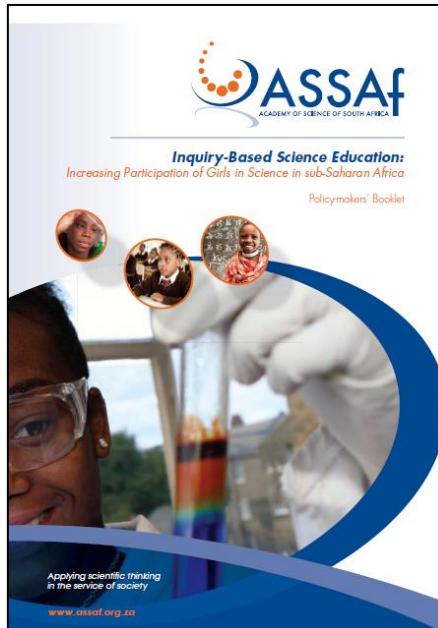
Strengthening academies in giving policy advice on genetic testing as an instrument for disease prevention: evaluation of policy issues for direct consumer access - EASAC

Recent projects III

Governance of Solar Radiation Management (SRM) Research: African Perspectives - African Academy of Sciences



Engendering Science Education: Inquiry-Based Science Education to benefit Girls - Academy of Science of South Africa



Science Communication: Sharing Expertise and Experiences - Korean Academy of Science and Technology

Regional Workshop
jointly organized by

InterAcademy Medical Panel (IAMP), Latin American Association of Academies of Medicine (ALAMM), InterAmerican Network of Academies of Sciences (IANAS)

National Academy of Medicine and Brazilian Academy of Sciences

Non-Communicable Diseases
Prevention and Control of Communicable Diseases and Cancer

Rio de Janeiro, Brazil, May 3-5, 2012

Background
The latest Global Status Report on Non-Communicable Diseases (NCDs), issued by the World Health Organization (WHO), states that NCDs are the global causes of death, causing more deaths than any other group of diseases. They are also the leading cause of death in the world's low- and medium-HDI populations. These diseases have reached epidemic proportions, which, however, could be significantly reduced, with millions of lives saved and untold suffering avoided, by means of decreasing their risk factors, early detection and timely treatments.

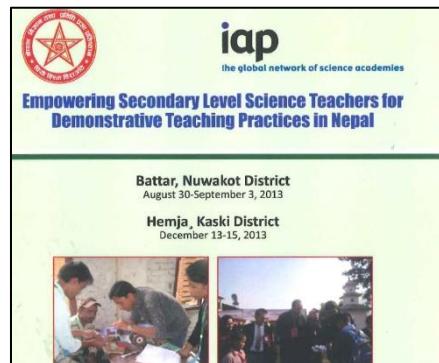
Program
In order to promote the interchange of experiences among the 13 Academies that are members of IAMP and ALAMM, a Regional Workshop on Non-Communicable Diseases, focusing on Prevention and Control of Communicable Diseases and Cancer, is being organized. The workshop will bring together top level experts, one in cancer and one in cardiovascular diseases, from each Academy to discuss their own national experiences on these subjects.

Besides discussing the state of the art of prevention and control of cancer and cardiovascular diseases in the Americas, participants will discuss collaboration opportunities among the Academies. An expected outcome of the symposium is a more powerful interaction between Academies in the continent.

Non-communicable diseases - IAMP

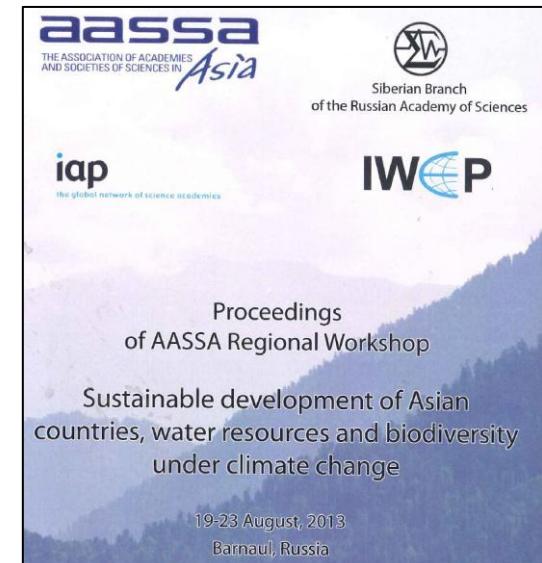
Recent meetings

**IANAS Water
Programme Meeting -
The National Academy
of Science of Peru,
December 2013**



**Science Education through
Communication
- Nepal Academy of
Science and Technology,
December 2013**

**Sustainable
development of Asian
countries, water
resources and
biodiversity - AASSA in
Barnaul/Russia, August
2013**



Global Young Academy

- ▶ Founded in 2010, building on an IAP initiative
 - 200 fellows from 58 countries (and 63 alumni)
 - supporting establishment and cooperation of national Young Academies worldwide (currently 26 on all continents)
 - Early scientific careers
 - Science-society dialogue
 - Science education
 - Science and Technology for Development

The screenshot shows the homepage of the Global Young Academy. At the top right is a search bar with "Search Site" and "Search" buttons. Below the header "Global Young Academy" and its tagline "The voice of young scientists around the world" is a sidebar with links: Home, Who We Are, Membership, Working Groups, Academies, Projects, Events, Publications, News Archive, and Links. The main content area features a large photo of a group of people, a caption about the fourth international conference, and a photo of two GYA members at the United Nations.

Global Young Academy
The voice of young scientists around the world

You are here: Home
Who We Are

As the "voice of young scientists around the world," the Global Young Academy aims to empower and mobilize young scientists to address issues of particular importance to early career scientists. Current working groups focus on improving Early Scientific Careers, Science-Society Dialogue, Science-Education, and Interdisciplinary Research. [Read more...](#)

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Coming Up: GYA Annual General Meeting 2014

The Fourth International Conference for Young Scientists and GYA Annual General Meeting will take place at the Faculty of Physical and Mathematical Sciences of the Universidad de Chile in Santiago de Chile, Chile, from 21 to 25 May 2014. The theme of this year's Conference is "Natural Resources in a Finite World".

A preliminary program can be downloaded as PDF. Please find more information on our conference website.

Two GYA-members presented at United Nation's new Scientific Advisory Board

On 30 January GYA co-chair Rees Kassen and member Sherien El-Agroudy were part of a delegation of six young scientists invited to present at the inaugural meeting of the United Nation's new Scientific Advisory Board. The SAB is composed of 26 eminent scientists from around the world and many different disciplines.

The presentation by the young scientists emphasized the importance and value of public science, that is, science that provides ideas and innovation for the public good and increases public engagement in the scientific process. The delegation also encouraged the SAB to use the growing network of Young Academies, including the Global Young Academy, in their work.

The text of the young scientists' presentation is available publicly on the [SAB website](#).

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