Science education is the most important way by which citizens learn about science, its values, concepts and objectives. Through science education, citizens are made aware of the importance of scientific endeavor for their country's cultural and socioeconomic development. It is a source of concern that in an age of unparalleled speed of scientific discovery, science education of children at the primary and secondary levels is generally inadequate. The curricula and the methods used in most schools of the western hemisphere and of the world do not convey the fascination of scientific research and do not transmit the values and approaches that make science relevant to everyday life and to responsible citizenship. In order to improve the level and the relevance of science education in the western hemisphere, IANAS has developed its Science Education Program, which is now holding its 7th annual meeting.

The shortcomings of traditional science education affect girls even worse than boys. From a young age, girls receive the message that science is a male occupation. No wonder women have been virtually absent from the science and technology enterprise. Yes, in the past decade and in some countries, women have ruptured this vicious circle. But in poor regions, where only science and technology could improve people's lives, women, the mainstay of their communities, remain powerless because of lack of access to science education. The newly formed IANAS Women for Science Working Group wants to open doors for girls and women so they can become full partners in the science and technology enterprise. To begin its work, the WfS-WG has helped organize two sessions on gender issues in science education during the 7th annual meeting of the Science Education Program and the "Gender Issues in Science Education: Empowering Girls and Women Workshop".

These two meetings are being hosted by the Brazilian Academy of Sciences, on behalf of the Inter-American Network of Academies of Sciences (IANAS). These two meetings were organized with the generous support of the InterAcademy Panel on International Issues (IAP), the Academy of Sciences for the Developing World (TWAS), the Third World Organization for Women in Science (TWOWS), the Special Secretariat of Policies for Women (SEPM), the Brazilian Chapter of the Gender Advisory Board (GAB-Brazil), the Brazilian Innovation Agency (FINEP), the Ministry of Science and Technology (MCT), the National Historical Museum (MHN) and the Earth Sciences Museum (MCTer/DNPM).

Organized by:

Academia Brasileira de Ciências — IANAS

Support:

FINEP — GAB Brasil — the InterAcademy Panel on International Issues iap — twas

DNPM Departamento Nacional de Produção Mineral — Museu Histórico Nacional — ibram instituto brasileiro de museus — Ministério da Cultura — Ministério da Ciência e Tecnologia — Secretaria de Políticas para as Mulheres — Brasil um país de todos e todas Governo Federal



# VII Meeting of the IANAS Science Education Program

June 12-13, 2010 - Rio de Janerio

## Workshop with Science Teachers "Gender Issues in Science Education: Empowering Girls and Women"

June 14, 2010 - Rio de Janerio

## June 12

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| 09:00 - 09:20 | Opening Ceremony<br><br>Jacob Palis (President of the Brazilian Academy of Sciences)<br>Hernan Chaimovich (IANAS Co-Chair)<br>Vera Lúcia B. Tostes (Director of the National Historical Museum)<br>Jorge Allende (Chair of the IAP Science Education Program)<br>José Lozano (Chair of the IANAS Science Education Program)<br>Anneke Levelt Sengers (Chair of the IANAS WfS-WG)<br>Hildete Pereira de Melo (Special Secretariat of Policies for Women)<br>Alice Abreu (Gender Advisory Board - Brazil) |
| 09:20 - 10:00 | Report of the Chair of the IANAS Science Education Program<br><br>José Lozano |
| 10:00 - 10:20 | COFFEE BREAK |
| 10:20 - 12:20 | Science Education in the Americas: Lessons from the Experience and the Role of the Academies<br><br>*Chair:* Gabriel Macaya (Costa Rica)<br>*Rapporteur:* Cesar Carranza (Peru)<br>Anneke Levelt Sengers (USA)<br>*Speakers:* Carlos Bosch (Mexico)<br>Claudio Bifano (Venezuela)<br>Diogenes Campos (Brazil) |
| 12:20 - 14:00 | LUNCH |
| 14:00 - 16:00 | Attracting Girls and Advancing Women in Science and Technology: Why this is Necessary and what Academies can do to Remove Obstacles<br><br>*Chair:* Winston Mellowes (Caribbean Academy of Sciences)<br>*Rapporteur:* Norma Nudelman (Argentina)<br>Sally Goetz Shuler (USA)<br>*Speakers:* Anneke Levelt Sengers (USA)<br>Elisa Saitovitch (Brazil) |
| 16:00 - 16:20 | COFFEE BREAK |
| 16:20 - 18:20 | Funding Science Education in the Hemisphere: Constraints and Challenges faced by IANAS and the Academies<br><br>*Chair:* Nelson Moreno Ceballos (Dominican Republic)<br>*Rapporteur:* Danielle Grynszpan (Brazil)<br>Patricia Taboada-Serrano (Bolivia)<br>*Speakers:* Jorge Allende (Chile)<br>José Lozano (Colombia)<br>Patricia Rowell (Canada)<br>Sally Goetz Shuler (USA) |

## June 13

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| 09:00 - 11:00 | The Academies and Gender Issues in Primary and Secondary Science Education<br><br>*Chair:* Maria del Carmen Samayoa (Guatemala)<br>*Rapporteur:* Carlos Bosch (Mexico)<br>Patricia Rowell (Canada)<br>*Speakers:* Elsa Quiroga (Bolivia)<br>Nora Gómez Zaffini (Argentina)<br>Lilliam Margarita Álvares (Cuba)<br>Hildete Pereira de Melo (Brazil) |
| 11:00 - 11:20 | COFFEE BREAK |
| 11:20 - 13:00 | The IANAS Science Education Program: Proposed Activities and Decision on the Activities to be Supported by the IAP Funds<br><br>José Lozano |
| 13:00 - 14:30 | LUNCH |
| 14:30 - 15:00 | Election of coordinator and vice-coordinator of the program |
| 15:00 - 17:00 | The IANAS Science Education Program: the Way Ahead<br><br>*Chair:* Claudio Bifano (Venezuela)<br>*Rapporteur:* Diogenes Campos (Brazil)<br>Lilliam Margarita Álvares (Cuba)<br>*Speakers:* Jorge Allende (Chile)<br>José A. Lozano (Colombia)<br>Elected Coordinator<br>Elected Vice-Coordinator<br>Anneke Levelt Sengers (USA) |
| 17:00 - 17:30 | Closing Ceremony<br><br>Elisa Reis (Regional Vice-President of the Brazilian Academy of Sciences)<br>Hernan Chaimovich (IANAS Co-Chair)<br>Vera Lúcia B. Tostes (Director of the National Historical Museum)<br>Jorge Allende (Chair of the IAP Science Education Program)<br>José Lozano (Chair of the IANAS Science Education Program)<br>Anneke Levelt Sengers (Chair of the IANAS WfS-WG)<br>Hildete Pereira de Melo (Special Secretariat of Policies for Women)<br>Alice Abreu (Gender Advisory Board - Brazil) |

## June 14

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| 09:00 – 09:20 | Opening Ceremony |
| 09:20 – 09:40 | Key Lecture 1<br>Minister Nilcea Freire (National Secretary of Policies for Women) |
| 09:40 – 10:00 | Key Lecture 2<br>Beatriz Barbuy (Inspirational talk) |
| 10:00 – 10:30 | Discussion |
| 10:30 – 10:45 | COFFEE BREAK |
| 10:45 – 11:45 | Session 1<br>Nora Gómez Zaffini (The Experience of the UNESCO Regional Chair "Women, Science & Technology in Latin America") |
| 11:45 – 12:15 | Discussion |
| 12:15 - 13:30 | LUNCH |
| 13:30 - 14:30 | Session 2<br><br>*Chair:* Danielle Grynszpan<br>Jacqueline Leta<br>Yvone Mascarenhas |
| 14:30 - 15:00 | Discussion |
| 15:00 - 15:15 | COFFEE BREAK |
| 15:15 - 16:15 | Session 3<br><br>*Chair:* Alice Abreu<br>Suely Druck<br>Marcia Barbosa |
| 16:15 - 16:45 | Discussion |
| 16:15 - 17:00 | Closing Ceremony |