

IANAS SCIENCE EDUCATION PROGRAM



SCIENCE ACADEMIES
ENHANCING SCIENCE
EDUCATION IN THE AMERICAS

The IANAS Science Education Program (IANAS SEP) comprises at present 19 Academies of Sciences in the Americas. The major objective of the IANAS SEP is to improve science literacy in the Americas.

Science education for primary level schools

Each country has its own priorities and needs in science education. The various National Academies of Science in the Americas work within their local and national contexts to

develop Inquiry Based Science Education (IBSE) programs. These programs are aimed at training primary, middle school and high school teachers to enhance science literacy. Working through IANAS, the academies share experiences and best practices and rapidly disseminate effective practices and experiences among countries.

Professional Development or “Training the trainers”

The most effective means to reach students is through their teachers. IANAS Academies work to raise the level of teacher`s knowledge in science. Since the inception of the Program, workshops on IBSE or a hybrid IBSE model based national curricular mandates have been developed and conducted in most of the countries of the Americas. The Mexican Academy of Sciences has successfully implemented distance education courses, mainly offered to teachers of Central America, the Caribbean and other countries. The teachers obtain a Diploma after successfully completing all the courses. As a result of these activities thousands of teachers in the region have been benefited with these training courses.

Secondary level science education

Latin American Workshops for secondary level science teachers have been implemented with emphasis in Molecular Biology and Genomics (Chile); Mathematics (Peru); Green Chemistry (Argentina); Evolution, Health and Nutrition (Bolivia).

A Spanish language web portal for IBSE

The science education portal of IANAS was originally launched by the Colombian Academy to collect materials and make them available to all countries. In 2012 the new Portal “IndagaLA” sponsored by the Mexican Academy of Sciences has been expanded and renewed with new content based on the experiences of the several IANAS Academies. www.indagala.org

