Astronomy Books in Spanish

Julieta Fierro, Instituto de Astronomía, UNAM, Apt 70 264, México DF 04510, México

Great cultures have created language. They have discovered its strength among other reasons for education. For a long time the Bible was one of the few books available in western culture, its influence is beyond any doubt. Many developing nations have no science books in their mother tongue. They might carry a few translations but these do not convey the local culture so it is harder for students to grasp the concepts and to build on what they know. Books, even if they are extremely simple, should be written in local languages because that will facilitate the conveying of knowledge and the creation of scientific culture. In the books examples that pertain to every day local life must be given, in particular examples that have to do with women. Women play a central role in developing nations by child bearing; if they become literate they will influence enormously the quality of their children's education, in particular their science comprehension. In México a collection that includes astronomy books has recently been edited by the National Council for Culture and Arts. The books are small and light, which encourages middle-school students to carry them around and read them while traveling in public transportation, such as the subway. Every other page is a new subject, that carries illustrations, abstracts and conclusions. The astronomy books are on search for extraterrestrial life, the stars and the universe. These books are distributed nation-wide and are inexpensive. They have been written by Mexican astronomers.

Teaching of Astronomy in India

Mandayam N. Anandaram, Physics Department Bangalore University, Bangalore 560 065, India

Here I will describe the inclusion of astronomy and astrophysics in College level courses of Bangalore University. I will describe the role of the Inter - University Center for Astronomy and Astrophysics (IUCAA) at Pune in making available instruments such as photometers and CCD cameras at low cost to aid teaching of astronomy as well as the running of a large number of training programmes for teachers and students. I will also describe some outstanding problems and suggested solutions.

Summer Schools for European Teachers

Rosa M. Ros, Department of Applied Mathematics, Technological University of Catalonia, Jordi Girona 1-3, Modul C3, 08034 Barcelona, Spain

The Summer Schools have been organised by the European Association for Astronomy Education (EAAE) for European teachers. The first was organised

in La Seu d'Urgell, Spain, the second was organised in 1998 in Fregene, Italy and the third in 1999, during the week of the eclipse in Briey, France, on the line of total darkness. We had a cloudy eclipse, but fortunately we could observe it. The fourth one was held in July 2000 in Tavira, Portugal. About 50 participants are involved in each Summer School. In the last, participants came from 14 countries. The activities are organised in General Lectures, Working Groups and Workshops for reduced groups and day and night Observations. To increase communication, each Summer School has three official languages: the language of the host country, English and another well-known by the participants. The proceedings are published beforehand with all the contents to facilitate participation. Each paper appears in English and another language.

The Leonids Observation Project by High-School Students all over the World

B. Suzuki et al., National Astronomical Observatory, Japan

We organized the Leonids observing network that comprised of 276 observation teams consisting of about 3,000 senior high-school students in Japan on Nov. 17 1998. We counted the visible meteors with our naked eyes. It was a simple method, but the many data enabled us to discuss the structure of the dust trail. However, the base-line is so short that we could not discuss the structure in full detail. In 1999, we organized a worldwide network of senior high-school students. The network is comprised of 307 teams from 23 countries. The base-line of our new project is the size of the Earth. We succeeded in making 20 hours continuous observations with this network. One of the observational teams in Tanzania encountered the Leonid meteor storm. We report on the scientific results and the educational aspects of these projects. (Web site: http://www.leonids.net/) (Leonids '98-'99 staff – co-authors – are A. Miyashita, M. Okyudo, H. Agata, T. Mizuno, T. Hamane K. Watanabe of Japan, C. Pennypaker, A. Gould, K. McCarron, G. Reagan and K. Meredith, of the U.S.A.)

New Student Laboratory Work about Pulsational Phenomena in Astronomy

Salakhutdin N. Nuritdinov, National University of Uzbekistan, Tashkent, Uzbekistan

The pulsation phenomenon is inherent to most types of object and it plays a great role at certain stages in the evolution of objects in the universe. That is why students must study this phenomenon in the framework of laboratory hours. Often the study of these phenomena is reduced to an analysis of some differential equations with variable coefficients. A class of these equations is connected with the stability problem of the oscillations of self-gravitating systems (S.Nuritdinov, Sov. Astron., 1985, 29, 293). In order to carry out this laboratory work every student is required to compose a computer program using the periodical solution stability method and the parameter resonance theory. The program will find