

2007 Year of Science

Project:

Science and Technology for Development
INTERNATIONAL COLLOQUIUM AND ITINERANT EXHIBITION

Granada 2007 - 2012



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Science and Technology for Development INTERNATIONAL COLLOQUIUM AND ITINERANT EXHIBITION Granada. 2007 - 2012

PROMOTERS:



Consorcio Parque de las Ciencias
Consejería de Educación
Consejería de Medio Ambiente
Consejería de Innovación, Ciencia y Empresa, Junta de Andalucía
Consejo Superior de Investigaciones Científicas
Ayuntamiento de Granada
Diputación Provincial de Granada
Universidad de Granada
Caja Rural de Granada
Caja Granada

GUEST ORGANIZATIONS:

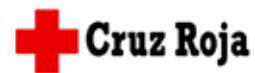


Universidad de Granada
CICODE

Deutsches Museum



Organización de las Naciones Unidas
para la Educación, la Ciencia y la Cultura



Agencia Andaluza de Cooperación Internacional
CONSEJERÍA DE LA PRESIDENCIA



Science and Technology for Development

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Objective of the Project

Under the logo Science and Technology for Development, the objective of this meeting is to design and to realize an expositive itinerant project with an international character about technology for the development.

Teaching ways of sustainability

The “Objectives for Development of the Millennium” of the United Nations are the expression of our days. “We live in a phase of challenge due to poverty in the world, the change of the climate, the destruction of the environment, for the increase of the population, for conflicts, for the limitation in resources...

But there are resources, almost unlimited, like creativity and the virtue of cooperation and solidarity. And there are opportunities for new technologies and new methods of handling the resources, to earn time on the way to sustainable life on our planet.

These could be the fundamental messages of the exhibition. We must teach ways to sustainability”.

Museums of Science

Science museums are adequate places for the diffusion of the ideas and experiences that the Project proposes. They have a notable power of social convocation and they receive a varied and motivated public. They are also specialized platforms for diffusion, capable of situating in their true dimension the work of those who move in the field of the so-called “technological compromise” in favour of social development and the protection of the environment.

Itinerancy 2008 – 2012

The itinerancy through different places and countries will make the Project of Exhibition and their parallel activities, have high visibility and reach many citizens. They could be venues for the exhibition Science museums, that already work in web in Spain and in Europe, as well as entities and towns that would wish to receive it.

Project in cooperation

Under the supervision of the El Parque de las Ciencias in Granada, the sponsoring of the FECYT (Spanish Foundation for Science and Technology) and the collaboration of different entities, the Project must be in itself an example of cooperation. It requires the coordinated work of different institutions and expert people in cooperation and in technology innovation. The work in itself is part of the message.

What Institutions? An Open Project

It will be added to the Project those entities and people that wish to contribute in the developing of their objectives. Those related to education and the spreading of science and technology, and those involved in the Cooperation for the Development will be especially invited. Initially will participate: Consortium Parque de las Ciencias and Deutsches Museum, FECYT (Spanish Foundation for Science and Technology); Terra Foundation, the Red Cross, the UNESCO Centres, the University of Granada and the Coordinator of Charities. Other entities and organizations have shown their interest in the Project specially Science Museums, technological Business and educational entities.

A positive alliance: action and communication

The Project emerges from the exchange of ideas between the responsible of the Parque de las Ciencias and two experts closely related and compromised with the cooperation for development: Dieter Seifert (Germany) and Robert Knüsel (Switzerland). How can the Interactive Museums of Science contribute...? We think a lot. They are cultural places with great audiences and with experience in contemporary communication. The experience with the Terra Foundation in the "Solar Encounter", with the support of the Andalusia Government or the actions with the Red Cross are fertile preceding of this kind of work.

A good antecedent: "Deutsches museum" 23 years ago

Quoting Dieter Seifert: in the year 1984 the "Deutsches Museum" (Munich) together with UNICEF realized an exhibition with the subject "Human dimension technique - Rural Technique for women in countries for development" (Technik nach menschlichem Maß - Dorftechnik für die Frau in Entwicklungsländern) showing simple utensils of "Appropriate Technology" (F. Schumacher) especially in areas of power, water and food and explaining every day problems of rural population.

A necessary Project

It is about dealing with our responsibility attending to the call of the United Nations. The Objectives of the Millennium ask to mobilize resources and ideas. The cooperation, the technological transfer is something that concerns all, an actual exigency very well felt in European society and singularly in our country, a place necessary for the connection between Europe and the South.

Let us show people relevant and understandable experiences

In a direct, practical, touchable, and understandable way. An exhibition for everybody... There is a social demand of information about the urgency for the cooperation of the development, about what is happening, the poverty and the environmental crisis. What are we doing? What else can we do? Working in what direction? What can the appropriate technology bring? ...

Main Object of the exhibition

To show practical examples of developed technology, or modified, for its use in a developing country, of high interest in the field of food, health, agriculture, communications, etc. for its efficacy, low cost or, simply, because it allows activities to be realized or covers human necessities that in any other way are not possible. Showing the consequences, any kind, for doing or not doing this work.

Stimulate the Innovation cheer up the compromise

A Project that pursues informing and educating. But also stimulating the innovation, encourage compromising and point out alternatives. It wants to be an exhibition that invites reflection and action.

Science and Technology at the service of human beings

The effort for bettering human life is joined to the work of scientific and technologist generations. Curing illness and suffering, producing food and resources for life, understanding the world... Showing this human and philanthropic vocation of the scientific creation and innovation is also an important task in the actual world.

An original way of creating an exhibition

The exhibition will not be designed at the desks. The specific technologies and experiences that will be shown in the final exhibition will be identified by a process the most rich and open as possible. (A call will be made, by the most adequate way to identify the best examples) In the various meetings and conferences between all cooperating parties and in an international colloquium, the most representative cases have to crop out.

International colloquium

As an intermediate step and approximately in December 2007 an international colloquium will be held, where relevant people and institutions will participate in the objective of this project. The work will continue during 2008 for the developing of an attractive and consistent expositive project.

Preparatory meeting in Granada: 4th June 2007

With the objective of starting work and to set the basis of the Project a small group of people will meet in Granada (between 14 and 16). Exchanging ideas, establishing a specific frame for the Project and setting a first calendar.

Entities and people invited to this meeting

Institutions

- Consortium Parque de las Ciencias
- Deutsches Museum. D. Dirk Bühler
- Tierra Foundation. Jordi Miralles
- FECYT – Education and Science Ministry
- Spanish Agency for International Cooperation
- Andalusia Agency for International Cooperation
- University of Granada. CICODE. Francisco Contreras
- Red Cross
- UNESCO. José Antonio Ortega Carrillo
- Coordinator of Charities. Kaoutar Boghlala

International Cooperation Experts

- Dieter Seifert. Germany
- Robert Knüsel. Switzerland

Scientific Advice

- José Maria Quintana. CSIC Investigator
- Paz Posse Hernanz. Dpt. of Education. Parque de las Ciencias
- Victor Costa Boronat. Physic and Biologist. Parque de las Ciencias
- Conrada López Hidalgo. Dpt. of Education. Parque de las Ciencias
- Miguel Guirao. Doctor. UGR (University of Granada)
- Antonio Gómez Avilés. Industrial engineer

Technical Card

Provisional Title: Science and Technology for Development.

Contents:

- A global vision
- 20-25 specific examples of appropriate technology in developing countries
- Bank of projects
- Didactic workshops and practical demonstrations
- Activities programme
- Publicity and Web

Space: between 300 and 600 square metres

Itinerancy: Octubre 2008 a 2012

WORK FIELD

As work fields Jordi Miralles, President of the Terra Foundation, proposes:

“The colloquium as well as the exposition can submerge in many fields that science as well as technology includes”. However, we must point out the necessity of especially tackling those materials whose direct contribution to human wellbeing is commendable. As an example and pre-index to developing this project we have identified the following:

Building and housing

- Housing for urgency (www.architectureforhumanity.org)
- Low consuming energy housing (www.domevillage.org)
- Composting technologies and methanisation of rural organical residues
- Images for solidarity architecture Projects (www.calearth.org)

Water

- Transport of water (www.hipporoller.org)
- Water storage and the hygienic of drinking water (www.sodis.ch)
- Catalytic solar hygienic of the water
- Pumping of water with renewable energy (Eduardo Lorenzo. Solar Energy Institute)
- Solidarity Bridges over trouble water (www.bridge2far.info)

Energy

- Solar cooking in the world (www.solarcooking.org)
- Family solar illumination (www.gaiam.com)
- Solar energy for the community services (Scheffler reflectors)
- Efficient wood cookers (Save 80)
- Home machines powered by animal traction
- Culture and survival with solar energy
- Low consuming illumination (leds)

Telecommunications

- Global telephone by Satellite
- Radio away from the waves
- Audiovisual Portability and library without paper

Health and Quality of life

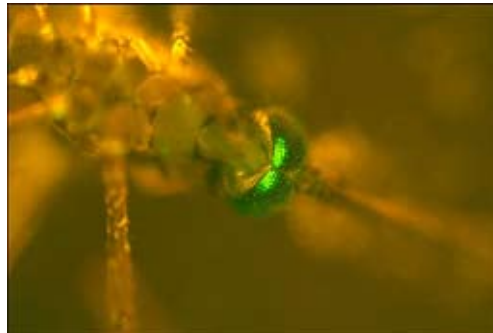
- Food diversity and the conservation of seeds (Vandana Shiva)
- Medicines with wild resources
- Super foods (quinoa, algae, honey, etc.)
- Ecological agriculture
- Bio plastics

Environment

- Conservation of ground: reforestation, fight against erosion
- Composting and recycling
- Conservation of nature: eco tourism, eco products



The Lifestraw device can be used for drinking water directly from the river.



Genetically modified mosquito that is resistant to malaria.



SUMMARY:

The Ministry of Education and Science, through the University and Investigation State Secretary, have proposed the year 2007 as the Year of Science.

With the objective of finding strategies for the diffusion of projects and activities of science divulgation, and based on the meeting of experts dated 18th December 2006 in the Spanish Foundation for Science and Technology for the elaboration of an Actuation and Following Plan of Initiative to be developed for the Year of Science, the Parque de las Ciencias, proposes the following:

Science and Technology for the Development. International Colloquium and Itinerant Exhibition

Date: Colloquium: December 2007
Itinerant Exhibition 2008 – 2012
Place: Colloquium in Granada

International Cooperation for Development in action, based in Practical examples. It could be resumed as an original educational and demonstrative contribution to the initiative for the "Civilization Alliance" of the United Nations.

Europe has to be leader in the technological compromise for the development and Spain has to promote its vocation of bridging North-South. The Colloquium is planned as a meeting of ONG's experts, international organisms and Museums from various countries for analysing how to make more visible the importance of promoting the transference of Science and Technology specific for Development. Showing, by practical examples already applied in countries and disfavoured societies, how specific technological supplies can mean notable advances. Something similar to what happens, in the socioeconomic field, with the "micro credits". As a result of the Conference we will have the Itinerant Exhibition for 2008 – 2012 and a parallel Activities Programme. We believe that Science museums are good platforms for the task of education and diffusion of the necessary " Technological Compromise" in favour of the Development, Solidarity and the Protection of the Environment.

Up to now we have made preliminary contact and had conversations with people and entities interested in the idea as the Consortium Parque de las Ciencias, Foundation Terra, Deutsches Museum, and other museums in Europe and Africa, the University of Granada, the FECYT, the Red Cross, or the UNESCO and experts like Dieter Seifert (Germany) and Roberto Knüsel (Switzerland). In the following months the compromise and the Work Programme will be specified.

The Project will include applied technologies to as diverse fields as:

- Energy, buildings, water, education, housing, environment, health, telecommunications, agriculture, etc.

Parque de las Ciencias. Granada

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