



Public Events

General Science Communication Program

The DIPC's Science Communication Program has the principal objective of helping to bring the contents and values of science and technology to society. This is a crucial activity in the design of activities of the DIPC.

The DIPC is a research center dedicated to research on the borders of scientific knowledge; it also assumes the responsibility of conveying to citizens this knowledge which, we believe, contributes to the progress, culture and freedom of society. The DIPC proposes meeting spaces for scientists and organizes contacts between science and society, cultivating an intellectual climate intended to awaken curiosity, interest, fascination and enthusiasm for knowledge. The DIPC Science Communication Program seeks to help establish a fluid, permanent dialogue between science and society, between scientists and citizens. The aim of the initiative is to foster responsible social and scientific progress in a free and tolerant intellectual environment showing science to be an accessible cultural activity attractive to all publics. The DIPC particularly wishes to cultivate a suitable climate for encouraging the youngest among us to study science and technology, thereby creating a dynamic reserve and channeling the talent of the coming generations.

In 2011, we pressed on in our commitment to bring science to society. We continued the Kutxa Lectures, looking at enormously interesting hot topics with top class researchers and excellent communicators; the Encounters between students and Nobel Laureates to continue awakening scientific vocations; and organized a new edition of the On Zientzia competition, maintaining our collaboration with the Elhuyar Foundation.

On December 2, 2011, we organized a conference on scientific communication attended, among others, by two winners of Nobel Prizes for Physics and a Prince of Asturias Award-winner. In the

morning, we once again turned our eyes towards secondary school students, potential future researchers, who had the opportunity to attend an Encounter. Forty-four schools from all over the Basque Country participated, with a total of 132 students and 44 teachers. In the afternoon, we held the event 'Frontiers of Science', open to the general public, the program of which featured brief talks on subjects like physics, bio-medicine or cosmology and a round table with the presence of the two Nobel Laureates, open to participation of the 250 people who filled the hall.

On-zientzia contest

Since 2010, a yearly contest to award the best amateur videos created to promote scientific outreach has been organized by DIPC in collaboration with Elhuyar Editorial, and the program Teknopolis from the Basque television (EITB). The success of the first edition in 2010 with more than 50 videos participating freely, generated the interest and joy to organize this event again in 2011. The reception of the videos participating in the present edition has been just closed in April 2012 with 48 videos. <http://www.onzientzia.tv/>

Kutxa Lectures

These series of lectures open to the general public started in 2010, as part of Passion for Knowledge in collaboration with Kutxa Obra Social. The excellent feedback of the public and attendees encouraged us to continue organizing them. In 2011, we organized a session to explain the public a very hot topic at that moment, are the neutrinos faster than light? The speaker, Prof. Jose Ignacio La Torre, from the University of Barcelona, is an expert on the topic and a great communicator. The answer from the public was exceptional, with 250 attendees completing the capacity of the hall. October 5, 2011. 'Neutrinos: Einstein seguramente tenía razón' by Jose Ignacio La Torre, Professor at the University of Barcelona
Andia Kutxa Hall. Donostia - San Sebastian

Seminars by Nobel Laureates

Very distinguished scientists have been invited to the DIPC to give a seminar or share their experiences in science and their views on different topics with the young (and not so young) researchers in an informal manner.

November 28, 2011. Prof. Sydney Brenner, Nobel Prize in Physiology or Medicine 2002, gave a seminar at the DIPC headquarters oriented to the local scientists from any field but open to the whole university community. 'Reading the Human Genome: the reconstruction of the Past'

Frontiers of Science

This open event was a kind of a special Kutxa Lessons. As we explained before, the program featured brief talks on subjects like physics, bio-medicine or cosmology by experts on the field, and a round table with the presence of the two Nobel Laureates.

December 2, 2011. Andia Kutxa Hall. Donostia - San Sebastian

Encounters

DIPC has organized every year since 2009 a set of Encounters between Nobel Laureates and secondary school students (about 12-14 years old) where the young students can chat and discuss about different issues of life, science and technological impact with eminent and prestigious Nobel Laureates. This experience has exceeded all the expectations regarding the incredible feedback given by school students as well as the joy experienced by the laureates when checking the vivid and lively interaction given by the young Basque students. There have been already three editions, where Nobel Laureates H. Kroto (2009), H. Rohrer (2009), J.M. Lehn (2010), F. Wilczek (2010), A. Yonath (2010), C. Cohen-Tannoudji (2011) and A. Fert (2011), as well as a Prince of Asturias Award-winner, J. I. Cirac (2011) and S. Earle (2010), have participated.

DIAC

PASSION FOR KNOWLEDGE

Celebrating 10 years of Donostia International Physics Center



Welcome
Pedro Miguel Echenique and **Isabel Celaá**, Minister of the Department of Education, Universities and Research of the Basque Government

Opening Lectures
Robert Langer
 2008 PRINCE OF ASTURIAS AWARD
 Novel biomaterials



Aaron Ciechanover
 2004 NOBEL PRIZE IN CHEMISTRY

Drug Development in the 21st century.
 Are we going to cure all diseases?



Celebrating 10 years Celebrando 10 años 10 urteak ospatzen Celebrating 10 years

10 urteak ospatzen Celebrating 10 years Celebrando 10 años

THE LECTURES

Frank Wilczek
 2004 NOBEL PRIZE IN PHYSICS
 Anticipating a new Golden Age

Bernardo Atxaga
 2008 PREMIO LETTERARIO INTERNAZIONALE MONDELLO
 Poem for my friend Lazkano

Ronald Hoffmann
 1981 NOBEL PRIZE IN CHEMISTRY
 Chemistry's essential tensions:
 Three views

Claude Cohen-Tannoudji
 1997 NOBEL PRIZE IN PHYSICS
 Using light for manipulating atoms

Luis De Pablo
 2003 PRIX MUSICAL INTERNATIONAL ARTHUR HONEGGER
 Passion for music:
 another kind of "knowledge"

Sir John Pendry
 FELLOW OF THE ROYAL SOCIETY
 Invisible cloaks and a perfect lens

Ada Yonath
 2009 NOBEL PRIZE IN CHEMISTRY
 Everests, polar bears,
 unpaved roads, antibiotics and
 the evolving ribosome

Heinrich Rohrer
 1986 NOBEL PRIZE IN PHYSICS
 Science, fascination, passion

Juan Ignacio Cirac
 2006 PRINCE OF ASTURIAS AWARD
 Quantum Physics:
 A new view of Nature
 and much more

Jean-Marie Lehn
 1987 NOBEL PRIZE IN CHEMISTRY
 From matter to life:
 Chemistry? Chemistry!

Richard Ernst
 1991 NOBEL PRIZE IN CHEMISTRY
 Passion and responsibility.
 Education, magnetic resonance,
 and Central Asian painting art

Sylvia Earle
 2009 TED PRIZE
 The urgency of exploring
 the deep frontier

Dudley Herschbach
 1986 NOBEL PRIZE IN CHEMISTRY
 Taming wild molecules

Theodor Hänsch
 2005 NOBEL PRIZE IN PHYSICS
 A passion for precision

Celebrando 10 años Celebrating 10 years Celebrando 10 años 10 urteak ospatzen



Celebrating 10 years

Celebrando 10 años

10 urteak ospatzen

Celebrating 10 years

10 urteak ospatzen

Celebrating 10 years

Celebrando 10 años

Celebrando 10 años

THE CITY

kutxa LECTURES

May 13 - June 17, 2010

Pedro Miguel Echenique Chairman
Juan Colmenero Vice-chairman
Alberto López Basaguren Vice-chairman

EXECUTIVE COMMITTEE

Igor Campillo Secretary General
Ricardo Diez Muiño Head of the The Workshops program
Unai Ugalde Head of the The Lectures program
Enrique Zárate Head of The City program

Throughout 2010, under the motto, City of science, Science in the city, a wide range of activities were organized in collaboration with other entities. Science, culture and leisure all converge in these activities, which were open to the general public. The Kutxa Lecture, given by local researchers, shared their experience in the world of research as well as giving an introduction to the topics to be presented at the main event in September.

CONTRIBUTIONS

Pedro Miguel Echenique
Passion for Knowledge: The sublime usefulness of useful science

Jose María Pitarke
From the large to the small: quasars, quarks, and the nanoscale

Fernando Cossio
Science, nature and art: chemistry and its metaphors

Javier Aizpurua
When light becomes small

Juan Colmenero
Molecule by Molecule: self-assembly and nanotechnology

Celebrando 10 años

10 urteak ospatzen

10 urteak ospatzen

Celebrating 10 years

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Celebrando 10 años

10 urteak ospatzen

THE CITY

PASSION FOR THE SEA

September 24-29, 2010

Pedro Miguel Echenique Chairman
Juan Colmenero Vice-chairman
Alberto López Basaguren Vice-chairman

EXECUTIVE COMMITTEE

Igor Campillo Secretary General
Ricardo Diez Muiño Head of the The Workshops program
Unai Ugalde Head of the The Lectures program
Enrique Zárate Head of The City program

Passion for knowledge is also passion for life, passion for nature and environment which, in a city like San Sebastian, necessarily entails a Passion for the Sea. In collaboration with the Aquarium Donostia-San Sebastian, a program of sea-related activities was designed with particular emphasis on the specific lines of research developed in the Aquarium. The Passion for the Sea lectures featured world-leading researchers, who are also regular collaborators with the Aquarium. The speakers spoke of some of the challenges they face in their current research activity.

CONTRIBUTIONS

Charles A. Farwell (Tune Research and Conservation Center, Hopkins Marine Station, Monterey Bay Aquarium, USA)

Bluefin tuna, one of the most advanced fish species in the ocean, an example of speed and endurance

Fernando de la Gándara (Marine farming plant, Spanish Oceanography Institute, Mazarrón, Spain)
Domestication of bluefin tuna: the latest challenge of seawater culture

DOCUMENTARIES

September 24-29, 2010

A series of documentaries on nature and sealife was also shown at the Aquarium including some outstanding documentaries from the Submarine Cinema Festival and from other cinema contests on nature.

Celebrating 10 years

Celebrando 10 años

10 urteak ospatzen

Celebrating 10 years

THE CITY

Biosanitary Environment ENCOUNTER

September 27, 2010

Pedro Miguel Echenique Chairman
Juan Colmenero Vice-chairman
Alberto López Basaguren Vice-chairman

EXECUTIVE COMMITTEE

Igor Campillo Secretary General
Ricardo Diez Muiño Head of the The Workshops program
Unai Ugalde Head of the The Lectures program
Enrique Zárate Head of The City program

Passion for Knowledge aimed to approach the biosanitary environment too, where science and investigation play such an important role. To do so, we held an encounter where Aaron Ciechanover, Richard Ernst, and Robert Langer shared their experiences with doctors, researchers and representatives of the biosciences and biosanitary environment.

Moderator: Pedro Miguel Echenique

Aaron Ciechanover 2004 Nobel Prize in Chemistry

Richard Ernst 1991 Nobel Prize in Chemistry

Robert Langer 2008 Prince of Asturias Award

10 urteak ospatzen

Celebrating 10 years

Celebrando 10 años

THE CITY

Celebrando 10 años

Celebrando 10 años

kutxaEspacio ENCOUNTER for Students

September 28, 2010

Pedro Miguel Echenique Chairman
Juan Colmenero Vice-chairman
Alberto López Basaguren Vice-chairman

EXECUTIVE COMMITTEE

Igor Campillo Secretary General
Ricardo Diez Muiño Head of the The Workshops program
Unai Ugalde Head of the The Lectures program
Enrique Zárate Head of The City program

Juan Ignacio Cirac, Jean-Marie Lehn y Frank Wilczek Sylvia Earle and Ada Yonath encounter secondary science students and teachers. They spoke about their particular passion for knowledge and the students asked questions in regard to their work and experience in science.

Moderator: Pedro Miguel Echenique

Juan Ignacio Cirac 2006 Prince of Asturias Award

Jean-Marie Lehn 1987 Nobel Prize in Chemistry

Frank Wilczek 2004 Nobel Prize in Physics

10 urteak ospatzen

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Celebrando 10 años

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Celebrando 10 años

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Celebrating 10 years

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Celebrating 10 years

Celebrando 10 años

Celebrando 10 años

THE CITY

kutxaEspacio ENCOUNTER for Teachers

September 29, 2010

Pedro Miguel Echenique Chairman
Juan Colmenero Vice-chairman
Alberto López Basaguren Vice-chairman

EXECUTIVE COMMITTEE

Igor Campillo Secretary General
Ricardo Diez Muiño Head of the The Workshops program
Unai Ugalde Head of the The Lectures program
Enrique Zárate Head of The City program

Claude Cohen-Tannoudji, Dudley Herschbach, and Heinrich Rohrer reflexed on the educational system in general and on issues related to teaching science and technology especially models and experiences from different countries, undervaluation of the teaching of science today, and motivating students and teachers.

Moderator: Pedro Miguel Echenique

Claude Cohen-Tannoudji 1997 Nobel Prize in Physics

Dudley Herschbach 1986 Nobel Prize in Chemistry

Heinrich Rohrer 1986 Nobel Prize in Physics

10 urteak ospatzen

Celebrating 10 years

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Celebrando 10 años

THE CITY

Aquarium ENCOUNTER for Students

September 30, 2010

Pedro Miguel Echenique Chairman
Juan Colmenero Vice-chairman
Alberto López Basaguren Vice-chairman

EXECUTIVE COMMITTEE

Igor Campillo Secretary General
Ricardo Diez Muiño Head of the The Workshops program
Unai Ugalde Head of the The Lectures program
Enrique Zárate Head of The City program

Sylvia Earle and Ada Yonath encounter secondary science students and teachers. They spoke about their particular passion for knowledge and the students asked questions in regard to their work and experience in science.

Moderator: Pedro Miguel Echenique

Sylvia Earle 2009 TED Prize

Ada Yonath 2009 Nobel Prize in Chemistry

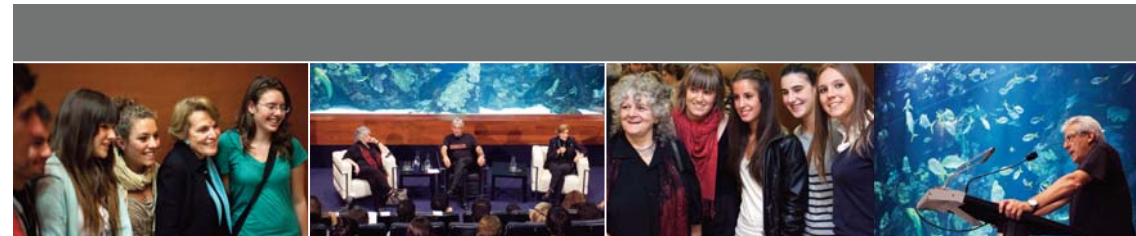
Celebrating 10 years

Celebrando 10 años

10 urteak ospatzen

Celebrating 10 years

Celebrando 10 años



THE CITY

PASSION FOR ART

September 20-October 10, 2010

Pedro Miguel Echenique Chairman
Juan Colmenero Vice-chairman
Alberto López Basaguren Vice-chairman

EXECUTIVE COMMITTEE

Igor Campillo Secretary General
Ricardo Díez Muiño Head of the The Workshops program
Unai Ugalde Head of the The Lectures program
Enrique Zárate Head of The City program

FOTCIENCIA

FOTCIENCIA is a scientific photography contest organised by the Higher Council of Scientific Research (CSIC) and the Spanish Foundation for Science and Technology (FECYT). The event takes science and technology closer to the public by presenting an artistic, aesthetic vision suggested by scientific images and written commentaries on the scientific facts being depicted.

The exhibition, comprising a selection of 50 photos selected by the jury, reached San Sebastian after being on show in many cities in Europe, Asia and America. FOTCIENCIA photos are a public resource for the dissemination of science.

NANOART21

NanoArt21 was founded by the scientist and artist Cris Orfescu, and is directed at promoting NanoArt throughout the world as a reflection on technological development. Orfescu considers that NanoArt is a more attractive and effective way of communicating with the general public in order to provide information on the new technologies of the 21st century. NanoArt aims to raise the awareness of the general public with regard to nanotechnology and its impact on our lives.

"NanoArt is a new art discipline at the art-science-technology intersections. It features nanolandscapes (molecular and atomic landscapes which are natural structures of matter at molecular and atomic scales) and nanosculptures (structures created by scientists and artists by manipulating matter at molecular and atomic scales using chemical and physical processes). These structures are visualized with powerful research tools like scanning electron microscopes and atomic force microscopes and their scientific images are captured and further processed by using different artistic techniques to convert them into artworks showcased for large audiences." (Cris Orfescu)

THE LECTURES

PASSION FOR KNOWLEDGE

September 27 - October 1, 2010

Pedro Miguel Echenique Chairman
Juan Colmenero Vice-chairman
Alberto López Basaguren Vice-chairman

EXECUTIVE COMMITTEE

Igor Campillo Secretary General
Ricardo Díez Muiño Head of the The Workshops program
Unai Ugalde Head of the The Lectures program
Enrique Zárate Head of The City program

ORGANIZING COMMITTEE

Fernando Cossío President, Fundación Ikerbasque
José María Mato General Director, CIC bioGUNE and biomaGUNE
Ginés Morata Professor of Research, Centro de Biología Molecular of CSIC-UAM
Luis Oro Director, Instituto Universitario de Catálisis Homogénea, University of Zaragoza
Rafael Pardo Director, Fundación BBVA
Jose Maria Pitarke General Director, CIC nanoGUNE
Joan Rodés Ex-general director, Hospital Clinic of Barcelona
Félix Yndurain Head of Department, Faculty of Sciences of the Universidad Autónoma of Madrid

The Lectures of Passion for Knowledge brought together speakers from different disciplines, cultures and thinking to engage the public with stories of personal exploration. Nobel laureates and world-leading experts will show their passion for knowledge and deep commitment to research. They spoke about the key moments, developments, challenges and implications of their research and works. The Lectures combined scientific rigor and entertainment to awake the curiosity, the interest, the enthusiasm and critical thinking of the public at large.

CONTRIBUTIONS

Bernardo Atxaga Poem for my friend Lazkano
Aaron Ciechanover Drug Development in the 21st century. Are we going to cure all diseases?
Juan Ignacio Cirac Quantum Physics: A new view of Nature and much more
Claude Cohen-Tannoudji Using light for manipulating atoms
Luis De Pablo Passion for music: another kind of "knowledge"
Sylvia A. Earle The urgency of exploring the deep frontier
Richard Ernst Passion and responsibility. Education, magnetic resonance, and Central Asian painting art
Theodor Hänsch A passion for precision
Dudley Herschbach Taming wild molecules
Roald Hoffmann Chemistry's essential tensions: Three views
Robert Langer Novel biomaterials
Jean-Marie Lehn From matter to life: Chemistry? Chemistry!
Sir John Pendry Invisible cloaks and a perfect lens
Heinrich Rohrer Science, fascination, passion
Frank Wilczek Anticipating a new Golden Age
Ada Yonath Everests, polar bears, unpaved roads, antibiotics and the evolving ribosome