

CITY OF ARTS AND SCIENCES

The City of Arts and Sciences, a large complex that has been promoted by the Generalitat Valenciana, has become an international reference point and a symbol of the faith placed in cultural tourism and the dynamism with which the Region of Valencia introduces itself to the world. It is a cultural and leisure centre that surprises visitors both with its architecture and its amazing capacity for amusing, teaching, and exciting them, together with encouraging their participation.

Along an axis of just under two kilometres that was formerly the bed of the river Turia and with a surface of 350,000 square metres, the City of Arts and Sciences represents a large open space for relaxation based on a concept of cultural and intelligent leisure that gives Valencia the largest centre of its kind in Europe.

The significant part placed by architecture has been possible thanks to the outstanding work of two Spanish architects of international prestige: Santiago Calatrava with the *Palau de les Arts Reina Sofía (Opera House)*, *Hemisfèric (Imax and Full Dome)*, *Science Museum Príncipe Felipe*, *Umbracle (Promenade and Car Park)*, and, under construction, the *Ágora*, and Félix Candela with the striking roofs of the main buildings of the *Oceanogràfic (Aquarium)*. An architectural complex of exceptional beauty has thus been formed to harmonise the continent with the content. It is a city in which the light and sea of the Mediterranean coexist in a striking manner.

The City of Arts and Sciences has the support of the City of Arts and Sciences Foundation, the objectives of which include the dissemination, encouragement, and development of science and technology and the promoting of scientific, cultural, and educational activities. The Foundation offers companies and institutions various forms of collaboration in various categories of corporate members. In the same way they can collaborate with the City of Arts and Sciences by sponsoring its activities, exhibitions, and facilities through the Foundation.

It should also be mentioned that in July 2005 the *Oceanogràfic*, the Central Services of the City of the Arts and Sciences, the Science Museum *Príncipe Felipe*, and the *Umbracle* were awarded the ISO 9001 and ISO 14001 quality and the environment certificates.

It is the first organisation in the world of its kind that has managed to introduce a Complete Administration System and to obtain this recognition.

Palau de les Arts Reina Sofía (Opera House)

The magnificence of its architecture, together with its complete technological equipment, makes it one of the world points of reference for the most prestigious theatre, opera, and music circles.

Hemisfèric (Imax and Full Dome)

It houses the largest cinema hall in Spain, including a 900 –square-metre concave screen and three projection systems:

- Large-format cinema
- Digital 3D screen measures: rectangle about 12x6 meters.
- Digital projections as astronomical representations, and various shows.

Umbracle (Promenade and Car Park)

A spectacular promenade and landscaped vantage point with an exhibition zone and a large parking area below

Agora

This building has been conceived as a very versatile multifunctional space for holding different types of events.

Science Museum Príncipe Felipe

This magnificent 21st-century museum reveals in a didactic, interactive, and attractive manner everything about the evolution of life, science, and technology.

Oceanogràfic (Aquarium)

This is the largest aquarium in Europe with a capacity for 45,000 living creatures; it reproduces the main marine ecosystems of our planet.

HEMISFÈRIC (IMAX AND FULL DOME)

Hemisfèric is a remarkable and spectacular building designed by Santiago Calatrava that represents a huge human eye, the eye of wisdom. This symbolises the observation of the world that visitors discover by means of surprising audiovisual projections.

It has an ovoidal roof over 100 metres long within a large sphere that houses the projection hall. An ornamental lake 24,000 metres square surrounds this structure to create a complex of extraordinary beauty.

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Large-format cinema

The seventh art in large format. The extraordinary sharpness and luminosity of the projections, together with the large size of the screen and the sound quality, help to create exceptional realism that integrates the spectator within the images.

Digital 3D

The spectacular show of the digital projections with the maximum three-dimensional realism thanks to the magic of the active glasses 3D and the most modern technological developments. Screen measures: rectangle about 12x6 meters.

Digital Projections

The Hemisfèric has the most advanced system of full-dome digital projection to allow the viewer to penetrate the world of astronomy and digital animation. With this projection system the Hemisfèric can feature activities related to astronomy and the cosmos and put on shows on other varied themes as “A walk around the solar system” and “Our home in the cosmos”, both in accordance with the different educational levels.

The images cover the whole screen because they use a projection system made up of six Barco Galaxy projectors of 12,000 ANSI lumens each distributed on the perimeter of the screen; a Zeiss PowerDome graphic generator that allows the generation of digital content; and a Uniview display platform and astronomical simulator that reproduces the whole universe, as it has an extensive three-dimension astronomy database including NASA models and a wide range of stars.

- Ovoidal roof over 100 metres long
- Maximum building height 26 metres
- Sheets of water of 24,000 square metres
- The perimeter ring bears the name of Carl Sagan as a tribute to the great popular astronomy writer and broadcaster.
- Wraparound screen with a surface area of 900 square metres and 23 metres diameter
- Projection hall with a 30-degree lean

- The IMAX Dome projector uses a fisheye lens to allow it to project the image over the whole of the screen
- The digital projection system achieves resolutions that exceed high definition
- IMAX Dome cinema film 10 times larger than a conventional photogram

Hemisfèric was the first scientific and cultural space of the City of Arts and Sciences, giving Valencia and the Region of Valencia a centre equipped with the latest technologies.

Since it was inaugurated on 16 April 1998, it has offered a diverse programme within an exclusive setting. With its contents being regularly renewed, the programmes of the Hemisfèric have been outstanding over these ten years as it has offered a number of themes from the world of science and technology: more than 47 productions that have been watched by more than 7 million viewers in some 36.000 hours of projections.

SCIENCE MUSEUM PRÍNCIPE FELIPE

HANDS ON, MINDS ON, HEARTS ON

The exterior of this museum captivates the visitor in its own right. The building is magnificent in its proportions and organic shapes and houses a multitude of activities and initiatives related to the evolution of life and scientific and technological dissemination.

Interactivity is a feature of the Príncipe Felipe Science Museum, which is encouraged by the slogan: "Forbidden not to touch, not to feel, and not to think". In this way the museum becomes a true instrument of education and reactivates the critical capacity of visitors.

Together with the wide range of materials on display, the museum also promotes the dissemination of activities and publications related to science and technology so as to transfer knowledge from the scientific and educational community to society as a whole.

Its value as a complement and support for the educational activities of schools and for companies and institutions makes it a living museum that maintains a continuous dialogue with society.

Indiana Jones™ and the Adventure of Archaeology™ takes visitors from the fiction world known through movies to real events in the field of Archaeology. Equipped with a video companion, visitors will embark on a quest to uncover the true origins of archaeological mysteries.

This exhibition will feature fascinating artefacts from the National Geographic Society, the Penn Museum, and the Université de Laval (Quebec, Canada), along with an extensive collection of Indiana Jones film materials from the Lucasfilm Archives. The Penn Museum, is providing genuine archaeological artefacts and educational material and the National Geographic Society also shares artefacts, photos, videos and content from its impressive and historic archive.

FOREST OF CHROMOSOMES

Over 2,600 square metres devoted to the greatest landmark in modern science: the sequencing of human DNA - Large-scale representation of the 23 pairs of chromosomes of human beings. Around each one 127 interactive modules are developed related to specific genes of each and their functioning.

ZERO GRAVITY

Exhibition created jointly with the European Space Agency (ESA) where visitors can discover the phenomena generated by the sun and how these affect life on Earth. They will also discover the purposes and usefulness of large space telescopes, the research teams that operate them and how they get the energy they need to work.

It has a room where moving images of space are projected overhead and shown on the five surfaces covered with mirrors (three walls, the floor and the ceiling), creating a feeling of infinite distances. Thanks to a unique design, a set of mirrors and moving images, visitors can see through the eyes of astronauts and look at our planet from the International Space Station, as well as drift with the pictures taken by telescopes and space satellites.

EXPLORATORY

This exhibition experiments with physical principles as different as optics, light effects, experiments with colours, vision, mechanics, and electricity. To do so the major natural phenomena are reproduced as they are perceived, together with the explanation of their corresponding scientific principles.

ELECTRICITY THEATRE

Through a series of surprising experiments, this scientific animation pays tribute to the Electricity. The aim is attempt to improve their understanding of concepts related to physical phenomena that produce electricity. Bells that ring without touching them, candles that go out with a metallic wand without the need to blow, jumping rings, electric arcs that cross space, or neon tubes that light up on touching their ends are some of the

experiences that will literally make our hair stand on end in the "Electricity Theatre".

The Electricity Theatre presents the Tesla coin, an electromagnetic generator that produces high voltage to high frequencies

INDIANA JONES™ AND THE ADVENTURE OF ARCHAEOLOGY

From December 22, 2011 to September, 16, 2012

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There is a section of the exhibit we call the "Indy Trail" that highlights some of the most iconic Indy adventures from the films and includes objects, costumes, concept art, clips, etc. associated with each of those adventures. Dovetailing off that are our four archaeological zones in which our real-world objects and stories take center stage, and throughout the exhibit visitors can participate in a Interactive game searching the treasure.

A collection of gold artifacts from the Royal Cemetery at Ur, A series of beautifully decorated bowls and vessels from Nasca, the world's oldest known map, The world's oldest known evidence of wine-making, share the space with objects from the films like the Ark of the Covenant, a life-size sarcophagus from the Well of Souls, the remains of Francisco de Orellana, the costumes of the leading ladies of each Indy movie and of course the costume of Indiana Jones with his hat and whip.

Indiana Jones™ and the Adventure of Archaeology will elucidate myths associated with relics like the Ark of the Covenant and the Holy Grail and explore mythical places such as Akator or Mayapore. The exhibition also will shed light on real archaeologists and their work such as deciphering ancient scripts and discovering the true origins of the mysterious Nasca lines in southern Peru.

This exhibition illustrates how the practice of archaeology evolves through time. Therefore, it features the work of archaeologists both past and present, following the lines of the scientific process: the quest, the discovery, the Investigation, the Interpretation.

- Foucault's pendulum weighs 170 kilos and at 34 metres is one of the longest in the world

- 20,000 square metres of glass with over 4,000 panes

- 42,000 square metres of built-on surface area, of which 26,000 square metres are exhibition space; the total surface area is the largest in Spain

- It is surrounded by a surface area of 13,500 square metres of sheets of water

- It is 220 metres long 80 metres wide and 55 metres high

- 58,000 m³ of concrete and 14.000 tons of steel used in its construction

- More than 27 million visitors since it opened to the public in 2000

- 800 interactive modules devoted to science and new technologies

- Artistic representation of DNA in the form of a sculpture 15 metres high.

UMBACLE (Promenade and Car Park)

LOOKING TO THE FUTURE

The Umbracle is a vantage point of over 17,500 square metres from which all the buildings, lakes, walkways, and landscaped areas of the City of Arts and Sciences can be contemplated. Its vegetation is characteristic of the Mediterranean, of the Region of Valencia, and of tropical countries, and changes according to the season of the year; it also contains an interesting exhibition of contemporary sculptures by internationally acknowledged artists. Inside it houses the car park for the City of Arts and Sciences which has room for 665 light vehicles and 25 coaches on two floors

Also, the Umbracle has a "Garden of Astronomy", where the public can interact with models, panels and instruments related to this science, and "Promenade of art".a free public access to host art exhibitions.

- **55 metallic arches between 17 and 19 metres high**
- **83 different species of plants**
- **320 metres long and 60 metres wide**

OCEANOGRÀFIC (Aquarium)

The largest marine complex in the whole of Europe is shown to the world as a unique space in the form of a journey through the seas and oceans of our planet to show visitors its most outstanding marine ecosystems.

Its avant-garde architecture, the arrangement of the various aquariums, and its scientific, leisure, and educational vocation make the marine world more accessible to visitors and make them aware of the need for protecting its fauna and flora. Furthermore, it serves as a platform for scientific research.

- **12 million visitors since it opened in 2003**
- **Surface area of 110,000 square metres**
- **45,000 specimens from 500 species**
- **The only European centre where you can observe belugas and walruses**
- **Over 42 million cubic metres of salt water to represent all the seas and oceans on the planet**
- **One of the largest dolphinariums in the world with 26 million cubic metres of water and a depth of 10.5 metres**
- **6,761 square metres of methacrylate panels of up to 33 centimetres thick**
- **150,000 cubic metres of concrete and 15,000 tons of steel**
- **Over 25 kilometres of piping with diameters ranging from 1.4 centimetres to 1.3 metres**
- **Carrying out of research projects and the recovery of species**

- 101 filters to treat the aquarium water, with a overall filtering volume of over 14,000 cubic metres

The Oceanogràfic is made up of different buildings that contain the most significant ecosystems representations of each planet's seas and oceans. There are 10 spaces in total:

Mediterranean

It shows part of the biological richness of the Mediterranean Sea in the form of nine aquariums of different formats adapted to each habitat reproduced, with some 7,400 living creatures, fish and invertebrates.

Wetlands

A spectacular sphere 26 metres in height, this space simulates two of the most singular wetland areas on the planet: mangrove swamps and fens.

Temperate and Tropical

The installation of Temperate and Tropical invites the visitor to travel from temperate regions of Pacific and the Atlantic Ocean to the warm waters of the tropics through aquariums connected by a fantastic 70-metre underwater tunnel, the longest in Europe. With an outdoors area, in this installation we can see a colony of seals and penguins.

Oceans

With a volume of 7 million litres of water, is the largest aquarium in the Oceanogràfic and one of the biggest in the world. It represents a voyage through the Atlantic Ocean from the Canary Islands to the Bermuda Islands by means of a tunnel where species such as the bull shark and grey shark can be contemplated, together with the sunfish, among others.

Antarctic

A colony of penguins is the attraction of this reproduction of a rocky cliff with nesting and breeding areas; in its underwater section they can be watched swimming effortlessly.

Arctic

A large dome by way of an igloo represents the Arctic region, which has rocky cliffs for the walruses and blocks of ice for the belugas to represent the natural living conditions of these magnificent mammals.

Islands

Located in the open air, this feature reproduces the islands along the length of the South American coast, which are known for their large colonies of Patagonian sea lions.

Red Sea – Auditorium

This name has been given to the large hall finished off with a roof shaped like a “pilgrim’s shell” or scallop. The backdrop to the auditorium found inside, which holds 466 people, is a spectacular aquarium that reproduces conditions in the Red Sea, in which species such as the masked butterfly fish and the Napoleon fish can be observed.

Underwater Restaurant

Located in the centre of the complex, this is the most emblematic building of the Oceanogràfic owing to its unique roof designed by Felix Candela. It represents a paraboloid figure similar to that of a water lily, and contains a large aquarium on the ground floor that fits perfectly into the whole of its perimeter.

Dolphinarium

The dolphinarium of the Oceanogràfic, which can hold some thirty individuals, is the biggest in Europe. The exhibition pool is the largest with a volume of 26 million litres and a depth of 10.5 m; it is situated opposite a public terrace with a capacity for 1.500 spectators.

Furthermore, the Oceanogràfic also contains the Education and Research Building and the Access Building, the area for the recovery and conservation of animals of the sea (The ARCA del MAR, where we recovered more than 100 marine turtles since 2007 as a result of the collaboration of the Regional Ministry for the Environment), together with restaurants and shops.

PALAU DE LES ARTS REINA SOFÍA (Opera House)

Symbol of the scenic arts

The Palau de les Arts Reina Sofía, after the inauguration of the Hemisfèric in 1998, the Príncipe Felipe Science Museum and the Umbracle in 2000 and the opening to the public of the Oceanogràfic in 2003, completes the artistic elements of this firm bid from the Generalitat for culture in its widest sense, together with science, technology, and nature.

Inaugurated in 2005, it features the most modern technologies and adapts the corresponding image to an avant-garde and current space, becoming a cultural catalyst that places the Region of Valencia with its centenary musical tradition in a privileged position among the regions of the world.

This majestic building, designed by the Valencian architect and engineer Santiago Calatrava, means that the city and the Region of Valencia can enjoy the best infrastructure for their introduction on international circuits, especially for opera and major music shows.

ÁGORA

A versatile space that will allow the holding of varied events. A multi-functional setting has been planned for the staging of congresses, conventions, concerts, and performances; it can also be converted into an exhibition area.

The Ágora is a metallic structure with a ground plan resembling a pointed ellipsis some 88 metres long and 66 metres wide, and a covered area of some 4,811 square metres. This large interior space has been conceived as a covered public square with an open ground plan on a level with the adjacent lakes and parades. The fixed roof, which when closed has a maximum height of some 70 metres above ground level, will be covered with glass panels, and the lower section with opaque panels lined with trencadis.

ACTIVITIES AND SPECIAL CONDITIONS FOR SCHOOLCHILDREN

The City of Arts and Sciences acts as a tool to support classroom teaching; it is a complement to educational institutions, where the teachers and the students, as participants in their own learning process, can take full advantage of the educational possibilities offered by this complex in its various spaces.

Its facilities and themes make this centre ideal for students of all ages who can enjoy themselves while they learn. It is a useful complement for teachers with its teaching material that has been adapted to various educational levels and activities; these cover a wide range of fields.

In addition, the City of Arts and Sciences has established a series of exclusive advantages for these young people in the Special Schools Programme.

COMPANIES

Because of its special architectural characteristics and the distribution of its spaces, the City of Arts and Sciences, as well as fulfilling the need for the dissemination of science, art, and culture, also serves as a showcase for the holding of company events with a modern avant-garde image.

Companies enjoy special ticket rates and also special conditions for the whole complex where they may carry out varied activities: congresses, company meetings, product presentations, galas, dinners, cocktail parties and receptions, special events, media calls, the placing of advertising, joint promotional activities, exclusive company sessions...

SERVICES

In the City of Arts and Sciences visitors can enjoy a plethora of services that will make their visit more pleasant and enjoyable, which range from restaurants to shopping areas, rest areas, spaces for children, a canteen for school parties... All needs have been taken into account and even the smallest details have not been overlooked.

An option with many advantages for visiting the City of Arts and Sciences is the Annual Pass which allows unlimited access to the complex. This annual pass has four categories: City of Arts and Sciences, Hemisfèric, Science Museum, and Oceanogràfic.

Moreover, the City of Arts and Sciences also offers the possibility of holding children's birthday parties in its installations.

RESTAURANTS

The City of Arts and Sciences provides a wide range of restaurant services, from appetisers to top-level à-la-carte services; menus for groups can also be arranged.

Hemisfèric

Cafeteria/Restaurant to hold 100 people

Science Museum Príncipe Felipe

Cafeteria/Restaurant to hold 112 people

Oceanogràfic

Underwater Restaurant. Situated in the centre of the site, this is the most emblematic building of the aquarium

Océanos Restaurant

La Lonja Self-Service Restaurant

Mediterráneo Pizzería and Ice-cream Parlour

Tabarca Burger Bar

Rompehielos Ice-cream Parlour

SHOPS

The City of Arts and Sciences contains a variety of shops in which visitors can buy souvenirs of the whole complex, books, toys, and design articles. It also offers a personalised gift service for companies.

Hemisfèric

The Hemisfèric Shop

Science Museum Príncipe Felipe

- Museum Shop
- Museum Bookshop

Oceanogràfic:

The *Oceanogràfic* Shop
The *Rincón Marino*
The *Delfín* Shop
The *Bazar del Ártico*