GOBIERNO DE ESPAÑA
MINISTERIO DE TRANSPORTES Y MOVILIDAD SOSTENIBLE

Fundación ENAIRE

ICAO · OACI · ИКАО · 国际民航组织 · ايكاو

EXHIBITION PROJECT

1935 – The First Spacesuit

Emilio Herrera Linares

From Air to Space

España / Spain

El Reino de España reconoce el valor científico del ingeniero Emilio Herrera Linares, quien, entre otras muchas investigaciones y logros aeronáuticos, inventó, en el año 1935, la escafandra estratonáutica, precursora de los trajes espaciales.

The Kingdom of Spain recognizes the scientific contributions of engineer Emilio Herrera Linares, who, among his many research projects and aeronautical achievements, invented the stratonautical suit in, 1935, a pioneering design of the modern space suits.

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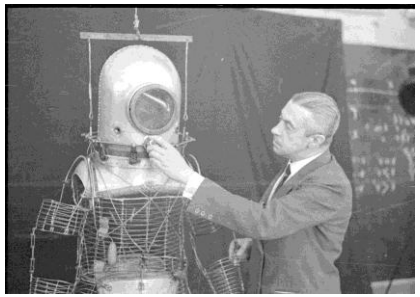

- 1:1 replica of the pressure suit: This is the first reproduction to include the outer layer, which was designed by Emilio Herrera to provide protection against cosmic radiation.
- Three virtual and augmented reality headsets: These headsets allow the public to view various virtual AR exhibitions related to Emilio Herrera, Spanish aviation, and his research. Initially, there will be two exhibitions: "Flying Lovers: For the Love of Art and Aeronautics" and "From Air to Space."
- Emilio Herrera Plaque: A tactile sculpture honoring Emilio Herrera—crafted in bronze on a marble base—featuring various historical aeronautical elements associated with him (such as the stratonautic pressure suit, wind tunnel, hot-air balloon, and other symbols) to ensure accessibility for the visually impaired.
- Touchscreen: Provides access to research documents and digitized content related to Emilio Herrera—most notably his personal scientific archive, which is currently being digitized by SHYCEA with sponsorship from the ENAIRE Foundation. Initially, documents will be available in English and Spanish, with translations into other official ICAO languages to be added over time. The screen also provides access to the virtual exhibitions—which can be viewed in AR via the headsets—in a web-based format.
- AR Objects: A hot-air balloon, the stratonautic pressure suit, the suit's helmet, and a space rocket can be viewed in Augmented Reality using visitors' mobile phones.
- Music: Music specially composed by Darío Palomo in honor of Emilio Herrera will play through the virtual reality headsets.

Exhibition Project at the ICAO Museum

FRONT WALL AREA

STRATONAUTICAL SPACESUIT

- It was invented by Emilio Herrera in 1935.
- The replica of the stratonaut suit is made at a 1:1 scale.
- It incorporates the layer designed to protect against cosmic radiation, which will be replicated and exhibited for the first time.

COAT OF EMILIO HERRERA

A commemorative plaque inspired by the aeronautical designs and scientific research of Emilio Herrera Linares.

It is a tactile sculpture designed to make the Project's content accessible to the blind.

VIRTUAL REALITY GLASSES

For viewing AR (Augmented Reality) exhibitions:

Flying Lovers": Historical aeronautical models and historical photographs of airplanes.

"From the Air to the Beyond": Aeronautical drawings by Emilio Herrera.

A "living" project:

Additional exhibitions featuring Emilio Herrera, drawing upon his aeronautical research Will be included over time.

DISPLAY WITH VIRTUAL LIBRARY AND WEB-BASED EXHIBITIONS

Emilio Herrera Linares' personal scientific archive has been donated by the Herrera family to the Spanish Air and Space Force and is currently being digitized by SHYCEA, with the sponsorship of the ENAIRE Foundation.

Initially, a selection of documents in Spanish and English will be available; subsequently, the other official ICAO languages will be added.

As this is a "living" project, further documents will be incorporated until the Emilio Herrera archive along with related research documentation is complete.

EXHIBITION PROJECT SPECIFICATIONS

- Title:

  1935 – The Stratonautic Pressure Suit
  Emilio Herrera Linares

  From Air to Space

- Total dimensions:

  3.20 meters wide x 1 meter deep

- Electricity:

  Less than 1,500 watts

  Two wall outlets (front area)

EXHIBITION PROJECT SPECIFICATIONS

ICAO MUSEUM WALL – REAR SIDE

WALLPAPER (3 x 3 metros)

Information Materials for ICAO Museum Visitors

LOCATION: Side of the wall

- QRNavilens accessible to blind people
- QR
- NFC card
- Brochure in 6 languages

INFORMATION MATERIALS FOR ICAO MUSEUM VISITORS

Project Brochure

ICAO

ICAO museum

999 Boulevard
Robert-Bourassa, Montreal
QC H3C 5H7, Canadá.

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"The First Space Suit – 1935. Emilio Herrera Linares" is an exhibition project of the Kingdom of Spain, promoted by the Permanent Delegation of Spain to ICAO and the ENAIRE Foundation at the Museum of the International Civil Aviation Organization (ICAO), headquartered in Montreal, Canada, with the collaboration of the Platform for the National and International Recognition of Emilio Herrera Linares.

«أول بدلة فضاء – 1935. إميليو هيريرا لينارس» هو مشروع معرض تابع لمملكة إسبانيا، تروّج له البعثة الدائمة لإسبانيا لدى منظمة الطيران المدني الدولي ومؤسسة **ENAIRE**، في متحف منظمة الطيران المدني الدولي (الإيكاو)، الكائن في مقر المنظمة بمدينة مونتريال في كندا، وذلك بالتعاون مع منصة استعادة مكانة إميليو هيريرا لينارس على الصعيدين الوطني والدولي.

« La première combinaison spatiale – 1935. Emilio Herrera Linares » est un projet d'exposition du Royaume d'Espagne, promu par la Délégation permanente de l'Espagne auprès de l'OACI et la Fondation ENAIRE, au Musée de l'Organisation de l'aviation civile internationale (OACI), dont le siège se trouve à Montréal, au Canada, avec la collaboration de la Plateforme pour la reconnaissance nationale et internationale d'Emilio Herrera Linares.

首套太空服——1935年·埃米利奥·埃雷拉·利纳雷斯》是西班牙王国的一项展览项目，由西班牙常驻国际民用航空组织代表团和 ENAIRE 基金会共同推动，在位于加拿大蒙特利尔国际民用航空组织总部内的国际民用航空组织（ICAO）博物馆展出，并得到“推动埃米利奥·埃雷拉·利纳雷斯在西班牙国内及国际上获得重新认识与认可的平台”的协作支持。

„Der erste Raumanzug – 1935. Emilio Herrera Linares“ ist ein Ausstellungsprojekt des Königreichs Spanien, das von der Ständigen Vertretung Spaniens bei der ICAO und der ENAIRE-Stiftung im Museum der Internationalen Zivilluftfahrtorganisation (ICAO) an deren Hauptsitz in Montreal, Kanada, gefördert wird – in Zusammenarbeit mit der Plattform zur nationalen und internationalen Wiederentdeckung und Würdigung von Emilio Herrera Linares.

"La primera escafandra del espacio - 1935 Emilio Herrera Linares", es el proyecto expositivo del Reino de España, que promueven la Delegación Permanente de España ante OACI y Fundación ENAIRE en el Museo de la Organización de Aviación Civil Internacional (OACI, sede en Montreal - Canadá), con la colaboración de la Plataforma para la recuperación nacional e internacional de Emilio Herrera Linares.

«Первый космический скафандр — 1935. Эмилио Эррера Линарес» — выставочный проект Королевства Испания, продвигаемый Постоянным представительством Испании при ИКАО и Фондом ENAIRE в Музее Международной организации гражданской авиации (ИКАО), расположенном в штаб-квартире организации в Монреале, Канада, при сотрудничестве с Платформой по восстановлению национального и международного признания Эмилио Эрреры Линареса.

INFORMATION MATERIALS FOR ICAO MUSEUM VISITORS

NFC and QR cards

QR with augmented reality objects

At the ICAO Museum, visitors can view the following in augmented reality by scanning QR codes with their mobile pones an experience that takes them "*from the air to space*":

- A hot-air balloon used by Herrera in numerous feats and adventures
- The stratospheric suit invented by Emilio Herrera
- The space rocket designed by Emilio Herrera

En este QR se accede al avance del Proyecto, puede verse en AR la escafandra

SPECIFICATIONS FOR PROJECT INFORMATION MATERIALS

- NFC card: 8.5 x 5.5 cm.

  Contains project information. Visitors can take the card home as a souvenir.

- NaviLens QR code: 7 x 7 cm.

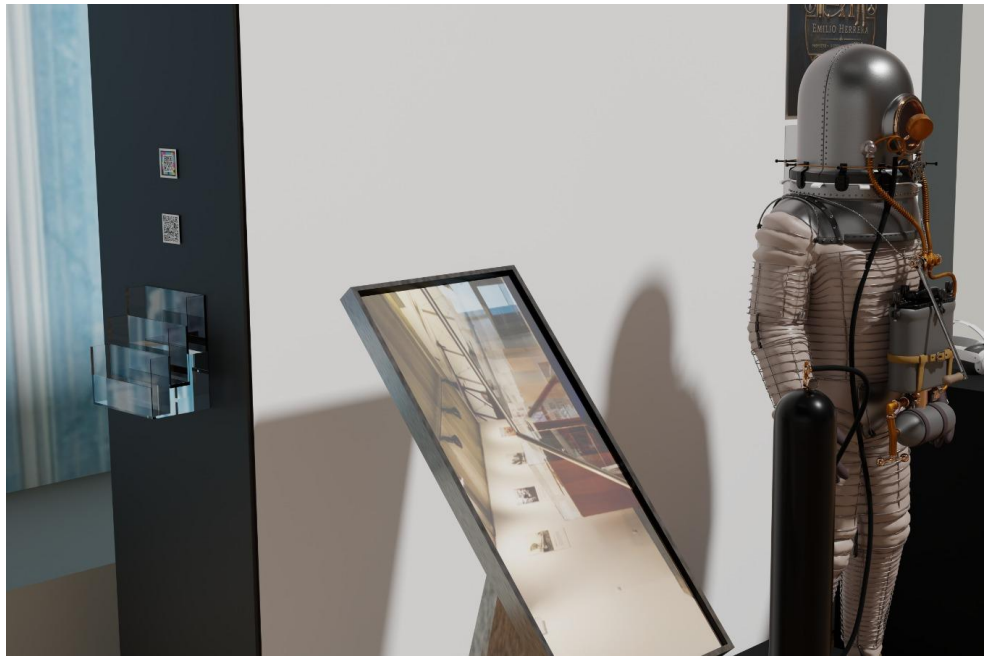
  Includes project information for the visually impaired.

- QR code: 7 x 7 cm.

  Includes augmented reality objects.

- Informational brochure (tri-fold): 29 x 21 cm.

  Includes a project overview in the six official ICAO languages and a QR code linking to all project content. Visitors can take the brochure home as a souvenir.



Project outreach materials at ICAO

Headquarters

Project Roll-up Banner

PROJECT DISSEMINATION MATERIALS

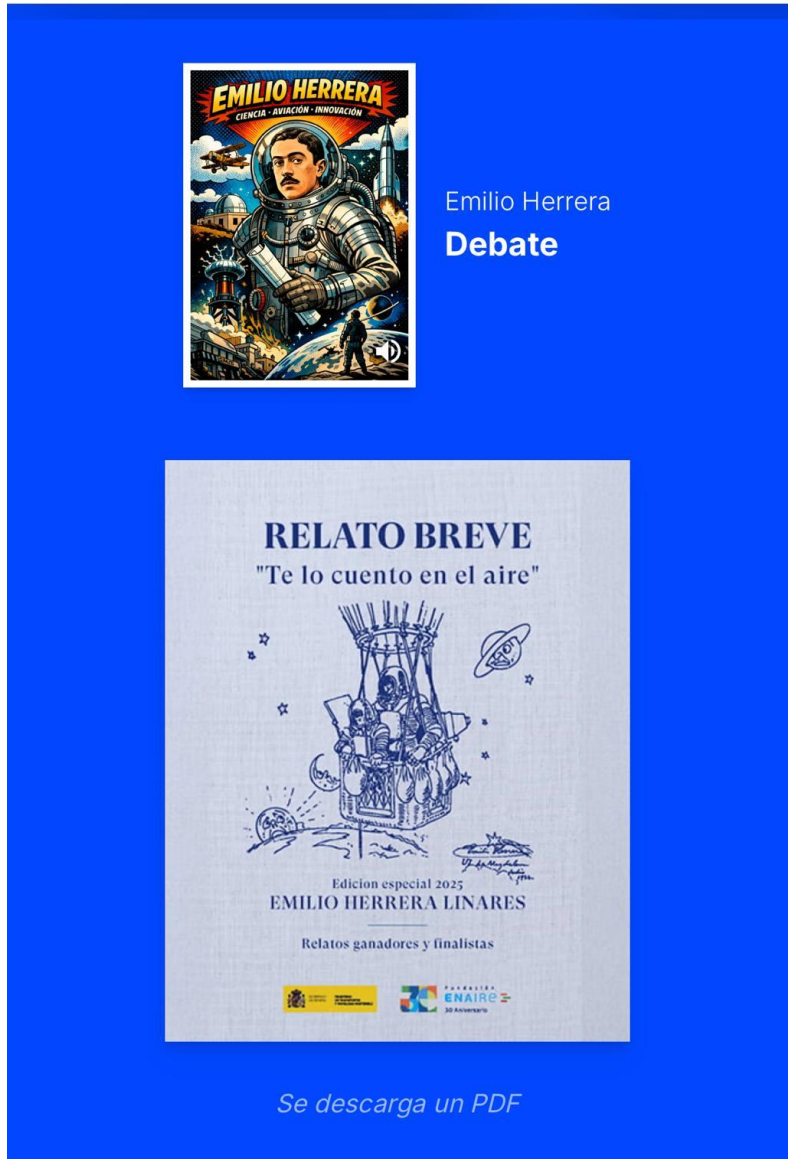
- MOBILE APP

https://emilioherrera.fundacionenaire.es/

APP IMPERDIBLES

En este QR se accede a contenido audiovisual, publicaciones, podscast, música dedicada a Emilio Herrera, compuesta por Darío Palomo, libro de Relatos Breves y mucho más...

app.fundacionenaire.es



Dissemination of the project via the Internet

In the six official ICAO languages and the official languages of Spain.

PROJECT WEBSITE

https://fundacionenaire.es/proyecto-expositivo-internacional-emilio-herrera/

GENERAL PRESENTATION

https://emilioherrera.fundacionenaire.es/oaci.html

VIRTUAL LIBRARY

https://fundacionenaire.es/biblioteca-virtual-espacio-emilio-herrera/

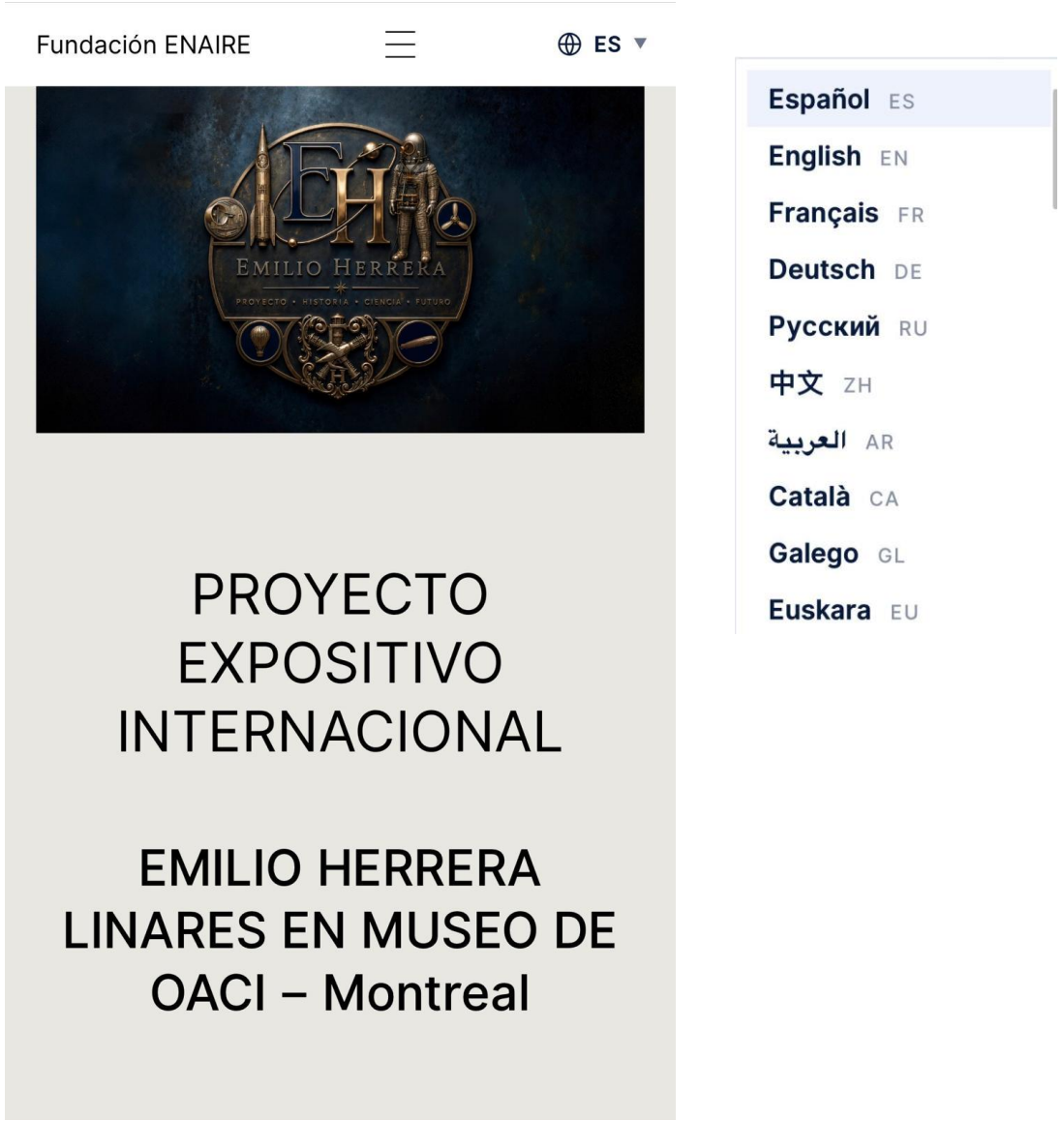
ÁGORA DIGITAL EMILIO HERRERA SPACE

https://fundacionenaire.es/agoradigital-emilio-herrera/

STICKERS

https://fundacionenaire.es/stickers-aeronautica/

IMAGES, VIDEOS, AND REELS FORMATTED FOR SOCIAL MEDIA



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- The Emilio Herrera Exhibition Project was initiated by the Delegation of Spain to ICAO, under the leadership of Mr Ángel Luis Arias, to showcase Spain's aviation history.
- The project has been developed and directed by ENAIRE Foundation, with Margarita Asuar, Managing Director of ENAIRE Foundation, as General Curator, and José Alfonso Benito Guerras as Technology Curator.
- The Spanish Air and Space Force and other institutions have also contributed to the project.
- ENAIRE Foundation and ICAO will sign a Memorandum of Understanding (MoU) for the installation of the project at the ICAO Museum in Montreal.
- The official inauguration will take place on 6 October 2026, as part of the celebrations marking Spain's National Day.