



臺灣 科學節

2020 Taiwan SciFest

活動指南

Festival Guide

10.31

|

11.15

我的地球，我來關懷

The Earth, Ours to Care.





臺灣科學節

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臺灣科學節粉絲專頁
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承辦館所聯絡電話

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- 國立海洋科技博物館 02-2469-6000
- 國立臺灣科學教育館 02-6610-1234
- 國立科學工藝博物館 07-380-0089
- 國立海洋生物博物館 08-882-5001

怎麼使用本小冊子 How to Use This Booklet

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關於臺灣科學節 About Taiwan Science Festival

自古至今的科學發展，提供了人類愈來愈廣闊的視野，讓我們一點一滴地認識了自身立足的地球，也同時往外探索宇宙和往內檢視自我。

科學思維應該成為我們日常生活的一部分，因此臺灣科學節的各式活動，將以多元奇趣的方式，重新喚起我們心中的科學魂！不再是嚴肅繁重的科學課程，或單調枯燥的反覆練習，而是由精彩戲劇和美妙樂曲共同展示和歡慶科學帶來的各項發現，以輕鬆愉快的方式讓全民參與一場盛大的科學饗宴，讓人們更願意親近科學！

臺灣科學節由教育部主辦，所屬五大科學館所承辦，十大科普基地協助，千所學校參與，百萬學子共學，誠摯邀請您一起來參與和體驗科學的美妙！

The development of science process has provided an ever-expanding field of vision for mankind, letting us know our own mother earth gradually, while also exploring the universe outside and observing ourselves inward.

Scientific thinking should become a part of our daily life. Therefore, the various activities of Taiwan Science Festival will reawaken the scientific soul in our hearts in a variety of interesting ways! It is no longer a serious and heavy science course, or a monotonous and dull practice. The Festival combining magnificent drama and wonderful music celebrate the changes brought about by science, and let all people participate in a grand scientific feast in a relaxed and happy way, making people more willing to get close to science!

Taiwan Science Festival hosted by the Ministry of Education, co-organized by the five major museums, assisted by Ten Science Bases, will be participated by thousands of schools, and shared by millions of students. We sincerely invite you to participate and experience the wonder of science together!



我的地球，我來關懷 The Earth, Ours to Care.

五館簡介

Introduction to Five Museums



NMMST

國立海洋科技博物館

National Museum of Marine Science & Technology



國立海洋科技博物館自2014年正式開館迄今六年，秉持「知海、親海、愛海」之建館使命，從軟硬體兼具的展廳，生動知性的體驗課程與渾然天成的山海環境出發，深入在地文化，結合北海岸得天獨厚的自然與人文資源，深化國人海洋素養與環境意識。人類的未來在環境，環境的解決之道在海洋，特別是在這麼一個全民熱切關懷環境議題的年代，國立海洋科技博物館更顯重要。

Since its founding in 2014, The National Museum of Marine Science and Technology has remained committed to its founding spirit of "Understanding, Supporting, and Loving the Ocean". We employ exhibition halls that are well-equipped with software and hardware, vibrant and passionate demonstration classes, and seamlessly created natural environments to increase people's awareness and appreciation of local culture, harness the unique natural and cultural resources of Taiwan's northern coast, and reinforce Taiwan's people's oceanic knowledge and environmental awareness. People's future depends on the environment, and solutions to environmental problems depend on the ocean. In an era when public opinion is so passionate about environmental topics, NMMST has become more important than ever.



NTSEC

國立臺灣科學教育館 National Taiwan Science Education Center

國立臺灣科學教育館是一個提供全民學習科學教育的大寶庫，館內的常設展區能讓您飽覽生物、物理、化學、數學與地球科學等豐富的科學知識，並將最新、最生活化的科學新知透過最精彩、有趣的展示方法呈現，讓您發現原來科學這麼好玩！而兼顧動手操作的親身體驗，更能讓各年齡層民眾，以及所有對科學有興趣的人都能FUN心玩科學，進而愛上科學！

The National Taiwan Science Education Center is a great place for the general population to learn about the sciences. Inside the center, the permanent exhibition area allows the visitor to partake of abundant scientific knowledge about Biology, Physics, Chemistry, Mathematics and the Earth Sciences, also presents the latest and most relevant scientific knowledge in the most magnificent way. All age groups are served by the excellent popular science events, which provide everyone who is interested in science with the opportunity to enjoy some lighthearted fun with science and fall in love with it!

國立自然科學博物館 National Museum of Natural Science

國立自然科學博物館蒐藏超過140萬份標本和文物，每件都是特定時空膠囊，代表過去地球自然歷史故事的片段；研究人員從這些物件中，探索收集新的資訊，這些關於過去的發現，有助於我們為未來的預測。每年我們的員工和志工，藉由展品及教育計劃，與上百萬的訪客分享我們的蒐藏品和從中汲取的知識，從而加深他們對科學、自然和文化世界，及當代挑戰的認知。

The National Museum of Natural Science curates more than 1.4 million specimens and artifacts. Each one reflects a moment in space and time; in these moments we find Earth's story. And our researchers continue to glean critical new information from these objects. These discoveries about the past help us model and anticipate the future.

Our exhibits, our educational programs, and our staff and volunteers share our collections and the knowledge drawn from them with millions of visitors every year – deepening their cognition for science, the natural and cultural world, and the challenges of our time.



NMNS

國立科學工藝博物館 National Science and Technology Museum

國立科學工藝博物館為國立社會教育機構，以推廣社會科技教育為其主要功能，故建館任務為研究、設計、展示各項科技主題，引介重要科技之發展及其對人類生活的影響。當「氣候變遷」為國際社會共同面臨的急迫挑戰之際，本館以聯合國及行政院發布之永續發展目標為綠博館計畫基礎，積極推動各項目標以實踐永續發展理念及社會教育使命。

NSTM



The National Science and Technology Museum is a national social education institution aimed at promoting science and technology education. Therefore, NSTM is dedicated to the research, design, and display of various technological themes, and to introduce important technological development and its influence on everyday lives.

Corresponding to the urgent challenge of "climate change" facing the global community, NSTM actively promotes various goals to implement the concept of sustainable development and social education of Sustainable Development Goals announced by the UN and Executive Yuan as the basis for the Green Museum project.



NMMBA

國立海洋生物博物館 National Museum of Marine Biology & Aquarium

國立海洋生物博物館位於墾丁國家公園境內西北角龜山山麓臨海地區，以維護並保存完整的島嶼及海洋生態環境為職志。主要設施可分為三個展覽館：臺灣水域館、珊瑚王國館、世界水域館。另自2005年起與國立東華大學聯合成立了「海洋科學學院」，為未來海洋生物科技發展增加開發潛力。

The National Museum of Marine Biology and Aquarium is located at the northwestern tip of Kenting National Park. It is the largest facility on the island to offer venues for education, research and preservation of Taiwan's marine and fresh water environments. There are three main exhibits including Waters of Taiwan, Coral Kingdom and Waters of the World. In addition, the College of Marine Sciences was established in 2005 under collaboration between NMMBA and National Dong Hwa University for enhancing the development of marine science and biotechnology.

精選活動 Featured Events



星空的立法者 - 克卜勒的一生

"The Legislator of the Starry Sky - The Life of Johannes Kepler"

2020 臺灣科學節大型科學藝術舞臺劇

The Grand Art Science Drama in Taiwan Science Festival

克卜勒是近代歐洲科學革命的主要推手之一，十六世紀中葉，天主教會主導世人的宇宙觀，堅持地球是宇宙中心的「地心說」，1543年哥白尼提出了以太陽為中心的「日心說」，雖然往前邁進了一大步，但因為使用的是圓形軌道，預測行星運行的誤差仍然很大。

克卜勒承襲了丹麥天文學家第谷觀測火星的豐富數據，刻苦研究，終於發現行星軌道實際上是橢圓，從而歸納出了今天我們熟知的「行星三大運動定律」，將軌道預測的誤差幾乎完全消除！這個偉大發現結合了「日心說」，終能正確描述太陽系天體的運行，也徹底推翻了天主教會的宇宙觀，因此後世稱克卜勒為「星空的立法者」。

Johannes Kepler was one of the major push hands for the science revolution starting at the end of middle ages. In the mid-16th century, the Catholic church dictated the contemporary cosmos viewpoint insisting the "Geocentric" dogma. Copernicus put forward the "Heliocentric" theory placing the Sun at the center of the universe. Although this theory was a big step forward to reality, the errors of predicting the orbits of planets were still large due to the fact that Copernicus used round orbits for the planets.

Kepler inherited the great data set of Mars motion obtained by the Danish astronomer Tycho, and came to the conclusion that the orbits of planets are actually ellipses, minimizing the prediction error literally to zero! Kepler summarized his findings and formed what we call today the "Three Laws of Planetary Motion". This great finding, combined with the "Heliocentric" model, described correctly the planetary motion in the solar system, and completely overthrew the cosmic view of the Catholic church. This is the reason why Kepler was called the "Legislator of the Starry Sky".



約翰尼斯·克卜勒
Johannes Kepler

克卜勒的科學貢獻如此巨大，但其一生卻極端坎坷，幼年體弱多病受人欺凌，及長光輝四射，科學成就令人欽敬，但造化弄人，晚年貧病交加，還需長途跋涉，去找神聖羅馬帝國皇帝要回欠發多年的薪水，卻魂斷異鄉，於1630年11月15日客死在雷根斯堡的小旅館中。死前留下遺言：「我曾測天高，今欲量地深。我的靈魂來自上天，凡俗肉體歸於此地。」

While his scientific contribution was so magnificent, Kepler's life had been very rough. He was weak and sickly and was bullied frequently in his childhood. His talent in science and math soon became brilliantly shining when he grew up. However, his fate has treated him harshly. He was poor and sick when he aged, and had to go on a long trip to visit the Emperor of the Holy Roman Empire asking for his long overdue salary. He died in a small hotel in Regensburg in this trip on the day of November 15th, 1630, leaving only a verse for his grave: "I measured the Heavens before, now I am measuring the shadow of the Earth. My soul was a gift from the Heavens, and my body will lie in the dirt here."



第谷·布拉赫
Tycho Brahe

「星空的立法者 - 克卜勒的一生」這齣舞臺劇，將結合戲劇、歌唱、舞蹈和多媒體，來呈現歷史上一位偉大科學家的生平。克卜勒孤傲憂鬱，他的老師第谷驕恣跋扈，他最好的朋友法布里修斯卻爽朗明快，三人個性形成強烈對比，充滿戲劇張力。而跨越時空的穿越劇情，更讓整個故事古今交疊，懸疑精彩！這齣戲劇將邀請國內一線的演員、歌手和舞群參與演出，將科學內涵以藝術方式來表達，為您呈現整晚視覺和聽覺的雙重盛宴！

This stage performance "The Legislator of the Starry Sky – The Life of Johannes Kepler" combines drama, singing, dancing, and multi-media to present the life story of a great scientist. While his mentor Tycho Brahe was arrogant and domineering, Kepler was gloomy and aloof, and his best friend Fabricius was bright and hearty. The personality contrast among the three major roles were strong and full of tension. The story line crossing space and time leads to a mixture of past and present scenes full of suspense. Taiwan's first-tier actors/actresses, singers, and dancers are invited to perform in this art-science drama conveying science through arts, and to present to you a night of feast of watching and hearing!

演出時間地點 Time and Venue :

10.31 Sat. - 11.01 Sun.

臺北市兩廳院廣場

The Outdoor Square of the National Performing Arts Center

合辦：臺北市政府、國家表演藝術中心國家兩廳院
Co-organized with Taipei City Government, National Performing Arts Center - National Theater & Concert Hall

18:45-21:00

中文 · 一般大眾 · 免費

Mandarin · Public · Free

11.07 Sat. - 11.08 Sun.

高雄市文化中心廣場

The Outdoor Square of the Kaohsiung Cultural Center

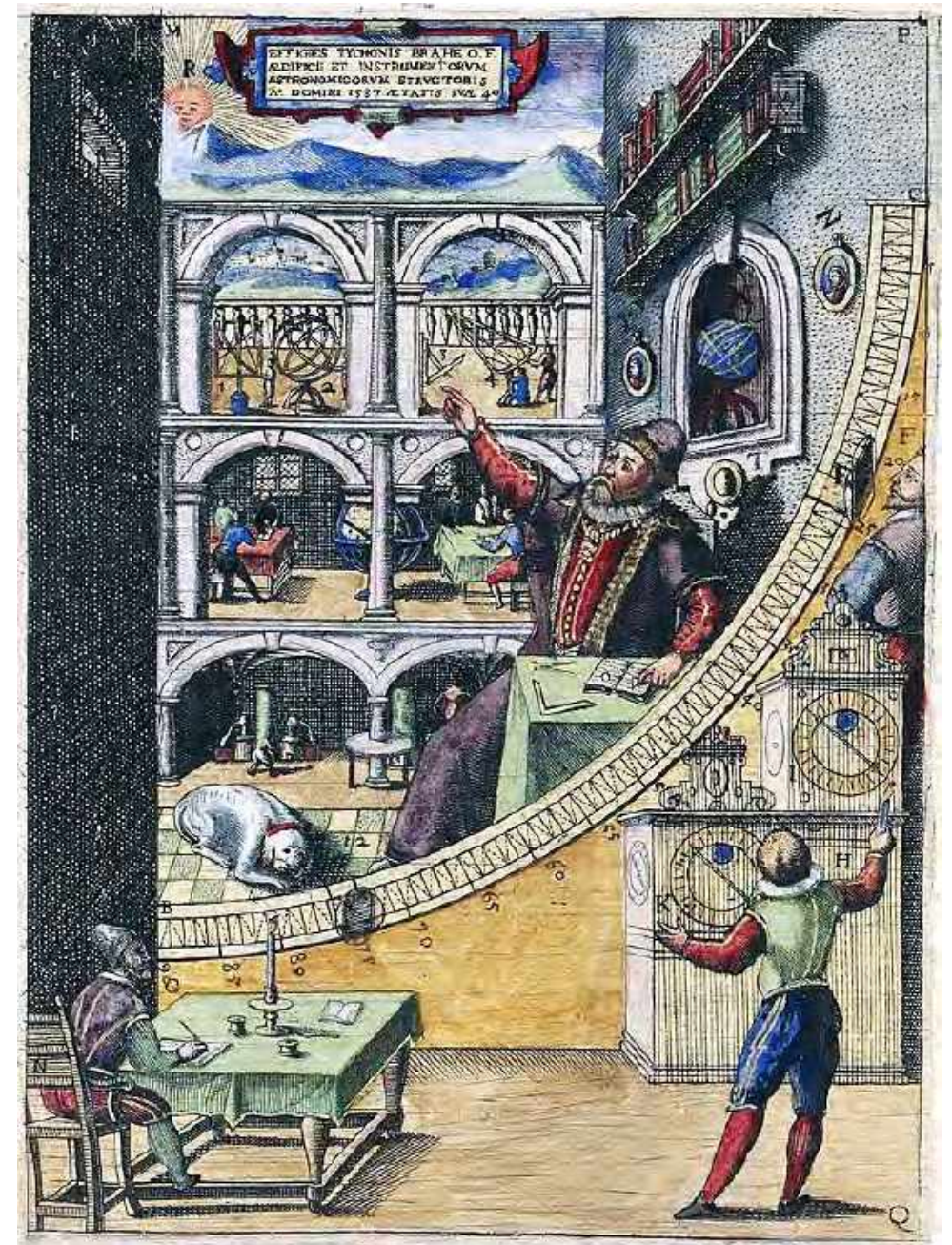
合辦：高雄市政府
Co-organized with Kaohsiung City Government

11.14 Sat. - 11.15 Sun.

臺中市圓滿戶外劇場

Taichung Fulfillment Amphitheater

合辦：臺中市政府
Co-organized with Taichung City Government



丹麥天文學家第谷所創製的「牆儀」是當時世界上最精準的觀星儀器。
"Wall Quadrant" was the most precise observing instrument produced by Danish astronomer Tycho Brahe.

仿生幻影工作坊

Fantastical World Workshop

使用特殊材質，結合剪紙藝術，創造出似有似無、虛幻飄渺的冥想世界。藉由國家博物館的優質教育推動，工作坊將融合美學、當代藝術與發自物件與創作者內心的種種對話，培養國人學習藝術創作技能、欣賞藝術創作美感，以健全國人生活品質。

Making use of distinct qualities and paper-cut art techniques, participants create a fantastical world. This workshop was developed to complement the efforts of national museums to promote outstanding education. It combines esthetics, contemporary art, and dialogues between creators and their creations. Participants learn artistic and creative techniques, as well as art appreciation.

11.01 Sun. 10:00-12:00; 14:00-16:00

國立海洋科技博物館 NMMST

11.07 Sat. 10:00-12:00; 14:00-16:00

新北市立自強國小 Ziqiang Elementary School, New Taipei City

11.08 Sun. 10:00-12:00

國立海洋科技博物館、基隆市碇內國小
NMMST / Dinnei Elementary School, Keelung City

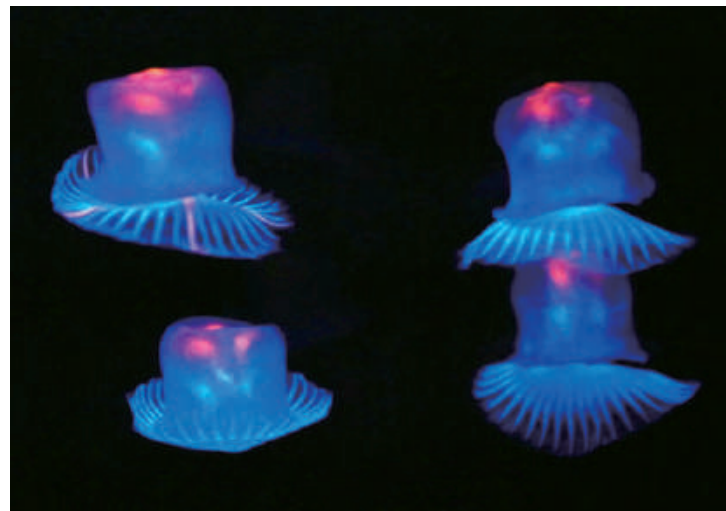
11.14 Sat. 10:00-12:00

宜蘭縣立復興國中 Fu-Shing Junior High School, Yi-Lan

11.15 Sun. 10:00-12:00; 14:00-16:00

國立海洋科技博物館 NMMST

中文、日文·建議 10 歲以上觀眾觀賞·免費
Mandarin, Japanese · Suitable for age 10+ · Free



藍海綠能探索基地 假日定時導覽

Blue Ocean Green Energy Exploration Center Guided Tours



您一定好奇什麼是「潔淨能源」？在 2020 年 10 月下旬至 11 月中，海洋大學團隊將提供導覽志工，針對近期佈建在海科館主題館周邊的「潔淨能源」體驗設施，包含「光玻璃節能屋」、「節能玻璃廊道」，以及「博物館節能模型與互動展示」，瞭解到生活環境中的節能設施；也可藉由搭乘主題館電梯的方式，瞭解「電梯儲能系統」運作原理，此外，船舶與海洋工程廳裡新建置完成「海洋能互動展項」，亦將在本次活動中隆重登場。

You may be curious as to what is meant by "clean energy". From late October to mid-November 2020, a team from National Taiwan Ocean University will provide guides to the "clean energy" experiential facilities recently developed by the National Museum of Marine Science and Technology, including energy-savings model home, energy savings glass corridor, and energy savings models and interactive exhibits. These facilities provide an understanding of the possibilities to save energy in our daily living environments. In addition, take the themed elevator to learn about the operating principles of energy storage systems. Moreover, marine energy interactive displays in the Naval Architecture and Ocean Engineering Gallery are to be formally unveiled during this festival.

10.24 Sat. / 25 Sun.

11.07 Sat. / 08 Sun. / 14 Sat. / 15 Sun.

11:00-16:00 整點導覽，每次30分鐘

國立海洋科技博物館 主題館區

中文 · 一般大眾 · 免費

Main Exhibition Building, National
Museum of Marine Science and Technology

Mandarin · Public · Free



海洋及科學好好玩(亞洲海洋教育展 - 海洋教育關鍵DNA)

Marine Life and Science are Fun (Asian Marine Education Exhibition – Marine Education Key DNA)

將浩瀚的海洋生物的奧妙分為數個面向，針對目標客群的特性加以轉譯，使看似距離遙遠的海洋知識與日常生活結合，成為容易理解與吸收的內容。包括：海洋生物有看頭、海洋生物辨辨辨&變變變、這是我們吃的海鮮嗎？永續發展目標(SDGs)與我們的距離、海洋公民科學家就是你、海洋教育關鍵DNA暨勞倫斯科學館海洋教案介紹及教師增能工作坊。

The wonders of marine life can be divided into many aspects. Based on the characteristics of target audiences, marine knowledge is integrated into daily life with easy-to-understand content. Topics include marine life that is worth seeing, identification and variations of marine organisms, the seafood we eat, relevance of Sustainable Development Goals (SDGs) to our lives, marine citizen scientists, marine education key DNA, and Introduction to The Lawrence Hall of Science marine education lesson plans and empowerment workshop for educators.

11.01 Sun. - 11.30 Mon.

09:00-17:00

國立海洋科技博物館 教育中心

中文 · 親子/教師 · 50元

Education Center, National Museum of
Marine Science and Technology

Mandarin · Parent-child / Teacher · 50 NTD



微積分：音樂

CALCULUS: THE MUSICAL!



科普教育可更生活化，科學劇已是現今國際流行的科普推廣活動之一，將科學知識、科學演示融入故事情節中，藉由戲劇張力引發觀眾探索、學習科學的興趣，隨著情節的發展耳濡目染科學知識，做為科學與藝術跨域整合的示範。

國立臺灣科學教育館於108年度力邀美國「Matheatre」雙人表演劇團跨海來臺演出，以原創劇本與音樂，融合化學科普知識與專業的舞臺藝術，演活瑪麗亞·斯克沃多夫斯卡-居禮 (Maria Skłodowska-Curie) 及其丈夫精彩的一生，於108年8月間辦理4場演出以及1場表演工作坊，帶給與會專業者及民眾嶄新的感受與體驗。

今年度持續合作，帶來新的戲碼「微積分：音樂」CALCULUS: THE MUSICAL!，藝術家結合音樂、戲劇、舞蹈、喜劇與科學史的元素，將生澀的微積分用音樂展現出來。科學音樂劇展現了科學家探索自然界奧秘的好奇心，同時透過當代藝術表演，呈現了藝術家的美學與創意。

Science education can be made understandable and accessible. Using elements of drama in science education is a current international trend. Scientific knowledge and science demonstration techniques are incorporated in the telling of a story. The resulting dramatic tension inspires audiences to explore and makes learning about science fun and interesting. As audiences follow the story, they imperceptibly gain scientific knowledge. This is an example of the integration of science and the arts.

In 2019, National Taiwan Science Education Center invited Matheatre of the US to Taiwan. Based on their original script and music, and by incorporating the principles of chemistry and professional stage techniques, this duo created a show based on the lives of Maria Skłodowska-Curie and her husband. In August of 2019, they gave four performances and one workshop, providing new experiences for museum professionals and the public. This year, collaboration with Matheatre continues, with the development of a new show, CALCULUS: THE MUSICAL!. It presents the concepts of calculus through the combination of music, theater, dance, comedy, and elements of science history.

Science musicals present the curiosity of scientists as they explore the mysteries of the natural world. At the same time, through contemporary performing arts, they highlight esthetics and creativity.



10.28 Wed.

10.29 Thu. 11.04 Wed.

19:30-20:30

11.01 Sat.

11.07 Sun. 11.08 Sat.

19:00-20:00

國立臺灣科學教育館 一樓大廳

英文 · 建議 8 歲以上觀眾觀賞 · 400元

1F Lobby, National Taiwan Science Education Center

English · Suitable for age 8+ · 400 NTD

趣味競賽

Fun Competition

趣味競賽的特色在於可以發揮無限的想像力與創造力，以國立臺灣科學教育館「博物館之橋」為場域設計10道題目，邀請國內外對科學有興趣的學生、教師以及社會大眾組隊報名參加，跳脫框架，以天馬行空的想法，在這個比賽中盡情地發揮創意與設計潛能，享受科學探究的過程。

This fun competition encourages imagination and creativity based on the Museum Bridge. Students, teachers, and other members of the public who are interested in science can team up and participate. For this competition, they need to think outside the box, while developing their potential and creativity and enjoying the process of scientific inquiry.



SCIENCE

11.08 Sun.

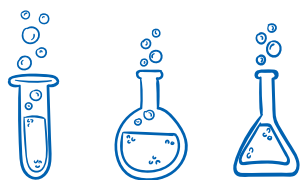
10:00-12:00; 13:00-16:00

國立臺灣科學教育館 1樓 大廳

中文 · 一般大眾 · 免費

1F Lobby,
National Taiwan Science Education Center

Mandarin · Public · Free



盞夜市

Science Night Market

11.14 Sat. 18:00-20:00

臺北科學藝術園區 Taipei Science & Art Park

中文 · 一般大眾 · 免費(部分夜市小吃收費)

Mandarin · Public · Free



夜市不只好吃好玩，夜市還很科學呢！設計夜市常見的遊戲攤位，讓民眾體驗不同的科學夜市；且將打造科學與藝術的傍晚，用音樂來沉澱周末一整日的科學饗宴，邀請團體以非傳統樂器，製造聲音表演樂章；並以光雕投影科學藝術、環境保育議題之影像於科教館館體建築，帶領民眾觀賞科學藝術之美，並反思環境保育議題。

Night markets are not only about fun and food, but are also scientific. Common games found in Taiwanese night markets have been transformed based on scientific principles, resulting in an evening of science and art. In addition, musical groups perform with non-traditional instruments and projection mapping performances focus on environmental issues.



大科學活動

Mad Science Show



10.31 Sat. 11.01 Sun. / 07 Sat. / 08 Sun. / 14 Sat. / 15 Sun.

14:00-16:00

11.10 Tue. 世界科學日(本場次為競賽型，不對外開放)

國立自然科學博物館 生命科學廳前廣場、植物園大草皮
Plaza in front of Life Science Hall and Lawn in Botanical Garden,
National Museum of Natural Science

中文 · 一般大眾 · 免費 Mandarin · Public · Free

合辦：臺中市政府 Co-organized with Taichung City Government

你們想要體驗升級版的科學體驗活動嗎？那麼大科學活動你絕對不能錯過！會飛高高的、爆破的、莫名其妙的各種科學現象會一直挑戰你的直覺，在臺灣科學節期間的所有週末，科博館團隊會敬候各位的到來，它會讓你覺得科學活動也是很酷的！

Would you like to experience an upgraded version of the Science Experience event? Then the Mad Science Show is what you want. Flying high, blasting, inexplicable scientific phenomena will always challenge your instincts on all weekends during the Science Festival. Team members of our museum will be waiting for you to arrive, and it will make you think science events are cool too!



1. 彩虹水舞
Create rainbow
2. 大力氣壓
Atmospheric pressure
3. 精譁煙雲
Air cannon
4. 怪裡怪氣
Sulfur hexafluoride
5. 翹客裂轉
Large mahogany seeds
6. 炸氮開花
Liquid nitrogen

夜間營運活動

The Museum at Night

晚上也能參觀博物館？（當然可以，請跟我來）從科博館二期廣場大門進入展示場後，全部的展覽都讓你盡情參觀，接下來轉個彎，或許迎面而來的，就會幸運地碰到音樂快閃演出。繼續往前走，進入橢圓形廣場，馬上就能與數萬年才形成的鐘乳石林來個千年一遇。再往上走到天文臺，看看獵戶座的俄里翁，又要去叢林裡追補什麼神獸？最後，科博館特別為了2020臺灣科學節精選的太空劇場與立體劇場影片，也千萬不能錯過！有想過夜晚的博物館是這樣的豐富有趣嗎？博物館愈晚愈美麗，來一場視覺與聽覺的饗宴吧！

Enjoy outstanding exhibitions day and night at the National Museum of Natural Science. Turn a corner to come across a flash mob musical performance. Discover 10,000-year-old stalactites. Visit the museum's observatory for views of the constellation of Orion. Then, discover mythical beasts in a forest. In the Space Theater and 3D Theater are films specially selected for the Taiwan Science Festival. Did you ever think that a museum could be so interesting at night? The later the better, as you enjoy a feast for the ears and eyes.

10.30 Fri. 10.31 Sat. 11.06 Fri. 11.07 Sat. 17:00-21:00

國立自然科學博物館 展示場、科學中心 1-4F、植物園及太空/立體劇場
Exhibition Gallery, Science Center 1-4F, Botanical Garden, Space/3-D Theater
National Museum of Natural Science

11.13 Fri. 11.14 Sat. 18:00-21:00

國立自然科學博物館 太空/立體劇場
Space/3-D Theater, National Museum of Natural Science

中文 · 一般大眾 Mandarin · Public



NIGHT NIGHT NIGHT NIGHT

天文臺夜間開放

The Observatory at Night

科博館為提供民眾夜間學習之機會，及增進天文觀測之認知，開放館內天文臺夜間參訪。以期透過天文臺的望遠鏡，讓民眾看到平常無法看到的天體，並瞭解天文知識。體驗在市區就近接觸星空，開啟對於宇宙的好奇。

The Observatory at Night provides the public with opportunities to increase their knowledge of astronomy. With the use of telescopes, observe celestial bodies that you normally cannot see. Experience a star-filled night in a city and satisfy your curiosity about the universe.

夜間場域開放及定時導覽

Nighttime Exhibitions and Guided Tours

開放「自然變調 - 失序的生態系」、「繽紛的生命」和「郵說昆蟲」特展並提供定時解說服務，以及「時空探秘」多媒體互動導覽，歡迎在星光熠熠的美麗夜晚，感受自然科學的知識饗宴！



Nighttime interpretation and multimedia interaction guides of four special exhibitions are provided. Welcome to feast on natural science knowledge under starry skies!

太空劇場、立體劇場夜間加映 Nighttime Space Theater and 3-D Theater Film Screenings

在臺灣科學節期間，科博館為了回饋民眾多年來的熱情支持，特地在太空和立體劇場安排了多部精選影片，影片內容精采多元，而且只在科學節期間(10/30-11/15)特別放映，機會錯過可能就再也看不到囉！

During the Taiwan Science Festival, there will be showings of outstanding films in the National Museum of Natural Science's Space Theater and 3D Theater from October 30 to November 15.



快閃表演 Flash Mob Performances

博物館的展覽總是最高品質靜悄悄？讓我們一起來打破這個迷思吧！科博館特別邀請街頭藝人及音樂、舞蹈等表演團體來館演出，更有些是快閃演出。如果你在參觀的時候，遠方突然傳來悠揚樂器聲，請加快腳步，慢來可就看不到囉！

Not all museum exhibitions are static. The National Museum of Natural Science has prepared street artist, music, and dance performances, along with flash mob performances. If you hear music suddenly playing, quickly search for the source, so that you won't miss out on a fantastic show!



鐘乳石夢幻石林 Fantastic Stalactite Forest

羅列在國立自然科學博物館橢圓廣場廊道，穿梭在夜間夢幻光影的迴盪，數萬年歲月累積堆疊而成的鐘乳石林壯闊登場，多元的造型顏色，爭奇鬥艷，有如千山萬仞豪氣萬千，更有如春雪初融，風情多變。鐘乳石的緩慢形成，也記錄了周遭環境過去的變化與氣候訊息，是地球科學家解構與重建了全球各地，近代與古環境變遷的重要證據。這是一場知識與視覺的饗宴，更可稱得上是科學與藝術的絕佳組合。

Marvel at the shimmering lights along a corridor that surrounds the oval plaza of the National Museum of Natural Science. This is a forest of 10,000-year-old, colossal stalactites. They vary in color and shape, vying for attention, just like the mountains that show their magnificence or the blooming of flowers in spring. The formation of stalactites documents the environmental and climatic changes of the past, offering crucial information for geologists to understand modern and paleoenvironmental changes around the globe. This is not only a visual banquet of knowledge, but also a fascinating blend of science and art.

園區光影造景

Light and Shadow Landscapes

針對科工館內園區增設打光美化，並連結與學童共同創作永續環境主題素材，讓民眾在科普學習及美感體驗中感受本屆科學節擬傳遞的精神。

The beauty of National Science and Technology Museum's outdoor park is enhanced through lighting. Moreover, schoolchildren create works based on the theme of sustainable environments. Through science learning and esthetic experiences, visitors gain an understanding of the messages of this year's science festival.

10.31 Sat. - 11.15 Sun.

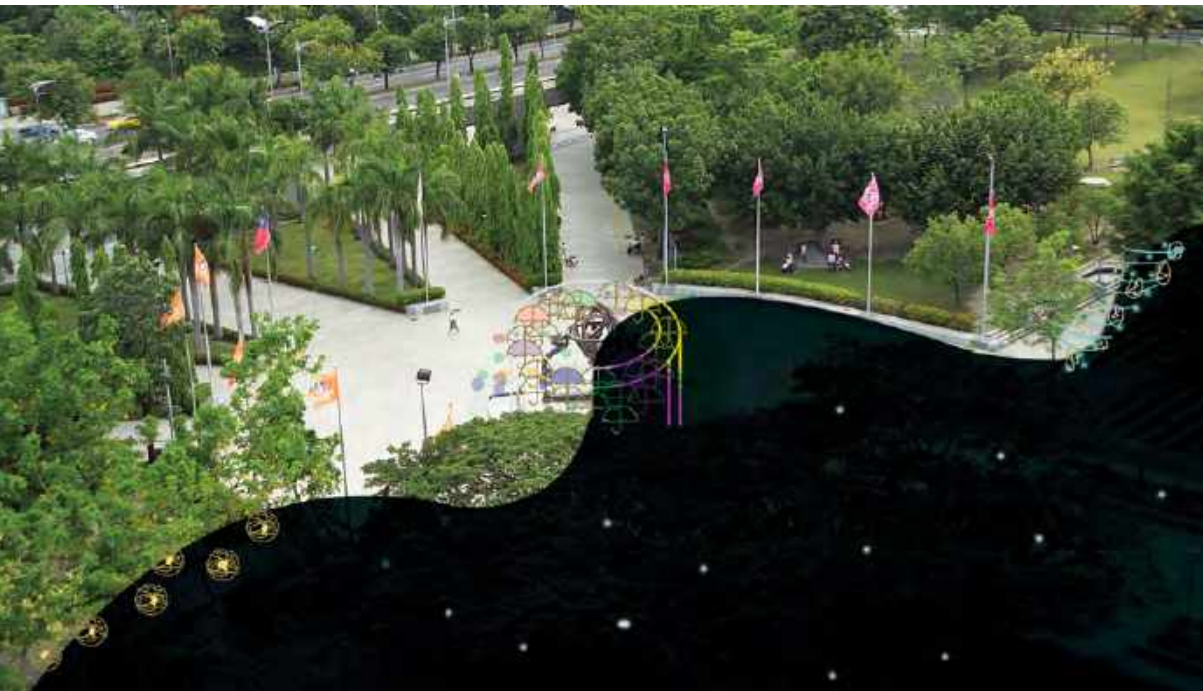
17:00-22:00

國立科學工藝博物館 北館 戶外園區

中文、英文 · 一般大眾 · 免費

Outdoor Park, North Complex,
National Science and Technology Museum

Mandarin, English · Public · Free



解救地球 - 科技藏品擴增實境闖關遊戲

Save the Earth - Augmented Reality Game Based on Museum Collections

以科工館特色典藏系列之度量衡、印刷及鎖具等三類科技藏品為發想，結合地球暖化與氣候變遷等議題，並設計有趣的故事情節，以密室逃脫解題過關方式，運用AR科技之互動體驗活動。

Based on ancient locks and artifacts related to measuring and printing in the collection, as well as issues of global warming and climate change, an interesting story was created. By answering questions and solving puzzles, escape from a secret chamber in this interactive augmented reality (AR) game.



10.31 Sat. - 11.15 Sun.

10:00-12:00 / 14:00-16:00

國立科學工藝博物館 北館 B1F 長廊

中文、英文 · 一般大眾 · 免費(須購買展示場門票入館)

Gallery, B1F North Complex,
National Science and Technology Museum

Mandarin, English · Public · Free (Admission ticket is required)

渾儀科學演示活動

Armillary Sphere Demonstration



主體展示連結科工館的地標渾天儀，在故事情境引導下，使民眾透過任務體驗方式，實際操作渾儀模型模擬天體觀測。由操作體驗過程深入閱讀展示內容，融入故事身歷其境地探索地球科學、天文、氣候、永續環境等環境相關資訊。展示單元融合天文、機械、歷史文化及關懷地球等多元議題，提供體驗民眾跨領域整合知識並引發學習探索契機。

Through guided commentary, audience members are given a mission that includes operating a physical model of an armillary sphere to simulate astronomical observations. In doing so, they explore earth sciences, astronomy, meteorology, and sustainability. This display combines astronomy, mechanical engineering, history, culture, and concern for the earth, providing cross-disciplinary knowledge and encouraging learning and exploration.

10.31 Sat. - 11.15 Sun. 10:00-12:00; 14:00-16:00

國立科學工藝博物館 北館 2F

2F North Complex, National Science and Technology Museum

中文 · 一般大眾 · 免費(須購買展示場門票入館)

Mandarin · Public · Free (Admission ticket is required)

極速 - 逆轉 氣候變遷皮影戲劇

Zoom and Reverse: Traditional Shadow Puppet Show on Climate Change

11.14 Sat. 18:30-19:30

國立科學工藝博物館 南館 戶外度量衡廣場

Outdoor Multiple Measurement Square, South Complex,
National Science and Technology Museum

11.28 Sat. 19:00-20:00

新營文化中心演藝廳 Xinying Cultural Center (財團法人瑞儀教育基金會贊助)

11.29 Sun. 19:00-20:00

嘉義市博愛國民小學操場 BO-AI Elementary School playground, Chiayi

中文 · 建議 3 歲以上觀眾觀賞 · 免費
Mandarin · Suitable for age 3+ · Free

2020年為世界地球日50週年，新的環境問題極速產生，人類應重視氣候變遷議題。悟空奉命拯救地球，悟空要如何逆轉危機呢？

This year marks the 50th anniversary of Earth Day. New environmental issues are rapidly emerging and we must reflect on the drastic effects of climate change. How can Sun Wukong save the earth?



教師與海 - 海洋教育工作坊

Teachers and the Ocean - Marine Education Workshop



11.06 Fri. - 11.08 Sun. 三天兩夜

國立海洋生物博物館 環境教育場域
中文為主，若為外籍教師將搭配現場口譯
教師·事先報名(免費)

Environmental Education Place,
National Museum of Marine Biology and Aquarium
Mandarin · Teacher · Free

海生館將邀請國內從事海洋科學教育之教師與專家學者共同前來，除分享教材與教案外，更希望可以提供海生館良好的場域環境，讓所有的教師與專家學者可以愉快地分享各自的成果，期望可以迸現出更多未來合作或是教學熱情的火花。

本活動預計利用鯨典館與後灣海域共同建立的海洋休閒遊憩園區，辦理及推廣無動力式海洋休閒遊憩活動，如獨木舟等。為參與人員建立水域安全自救的正確觀念，用最自在的方式暢遊海洋。讓參與人員除了室內教案的分享外，更可直接走向大自然親身體驗海洋。由海生館為點，學校教師、學生為線，交織成海洋教育的面，達成資源最大化的運用。

National Museum of Marine Biology and Aquarium provide an environment on which educators, experts, and scholars like to share their experience. It is hoped that this workshop will spark opportunities for collaboration and passion for education.

During this workshop, Whale Explorium and Back Bay will be used for marine recreational activities that do not require motor power, such as kayaking. Participants will learn correct concepts of water safety and rescue and enrich their exploration of the ocean. Thus, in addition to sharing lesson plans in indoor meetings, participants will spend time in nature. With National Museum of Marine Biology and Aquarium as the venue and teachers and students as the focus, efficient use of resources for marine education can be achieved.



海洋Longstay 花東屏到校課程

Ocean Long Stay: On-Campus Courses in Hualien, Taitung, and Pingtung

將花蓮、臺東與屏東三縣市的學校作為知識傳播場域，提供直送到校的海洋教育，使課堂內不再是傳統乏味的講述式教學，讓學生與老師享受議題融入教學的樂趣，透過「探索與實作」(inquiry and practice) 於親身操作中學習到知識的魅力。本次活動的亮點目標更著重於深入偏鄉，花東地區海岸線綿延，當地學童對於海洋教育的需求絕不輸西部，過去海生館有多次提供屏東縣與高雄市的教學經驗，累積大量的活動能量，海生館預計前往各級學校且並非全部集中於市區，讓臺灣科學節抵達臺灣每一個角落，讓每一個人都能一同參與本次的科學慶典。



Schools in Hualien, Taitung, and Pingtung counties are places for conveying knowledge. Marine education courses are provided at these schools. Instead of the traditional lecture style, these courses focus on “inquiry and practice” through hands-on learning, making them fun and interesting for both teachers and students. The objective is to bring in-depth education into remote areas. Hualien and Taitung counties both have long coastlines, meaning that students in these areas have a need for marine education, when compared with their counterparts in western Taiwan. In the past, the National Museum of Marine Biology and Aquarium has provided educational programs to schools in Pingtung County and Kaohsiung City, accumulating activity-planning capacity. National Museum of Marine Biology and Aquarium expects to bring marine education programs to schools, not all of which are in urban areas, to enable the benefits of the science festival to reach every corner of Taiwan and to encourage everyone to participate.

09.14 Mon. - 10.16 Fri. 臺東縣 Taitung County

10.19 Mon. - 10.30 Fri. 花蓮縣 Hualien County

11.02 Mon. - 11.13 Fri. 屏東縣 Pingtung County

臺東、花蓮、屏東縣內國高中小學校
中文 · 在學學生7-18歲 · 預約申請免費

Senior High Schools, Junior High Schools and
Elementary Schools in Taitung, Hualien, and Pingtung

Mandarin · Students for age 7-18 · Free



科普論壇

Popular Science Forum

11.12Thu. - 13Fri.
09:00-18:00(Day1); 09:00-17:00(Day2)

國立海洋科技博物館 教育中心
中文、英文 · 科普推廣者 · 免費
Education Center,
National Museum of Marine Science and Technology
Mandarin, English · Science Promoters · Free

2020科普論壇依循第一屆臺灣科學節的主題「我的地球，我來關懷」，提供科普推廣者一個交流與互動的平臺。



The 2020 Popular Science Forum follows the theme of the first Taiwan Science Festival "The Earth, Ours to Care.", and provides a platform for exchanges for those involved in promoting popular science.

博物館展示新趨勢國際研討會

2020 International Conference on Museum Exhibition

10.22Thu. - 23Fri. 依會議流程

國立科學工藝博物館 南館 演講廳及教室
中文、英文 · 博物館學師生與從業人員 · 500元(學生200元)
Lecture hall, South Complex,
National Science and Technology Museum
Mandarin, English · Teachers, students and practitioners
of museum science · 500NTD (Student: 200NTD)

本次研討會邀請國內、外專家學者，就博物館展示新趨勢與相關議題進行研討，以拓展博物館展示領域之知識，並助益於我國博物館實務運用，期望促進博物館社群的共同進步。



The purpose of this conference is to bring together experts to carry out discussions on new trends in museum exhibitions, expanding knowledge on museum exhibitions and providing museums in Taiwan with practical applications, to enable the museum community to move forward.

週日閱讀科學大師科學節專場講座

Reading the Science Masters Sunday Lecture Series

10.25Sun. / 11.01Sun. / 11.08Sun. / 11.15Sun.
10:00-12:00

國立科學工藝博物館 南館 1F 國際演講廳
中文 · 一般大眾 · 免費
1F International Lecture Hall, South Complex,
National Science and Technology Museum
Mandarin · Public · Free

「週日閱讀科學大師」系列講座為邀請我國傑出的科研單位學者專家，將其研究成果透過科普化講座於本館南館國際演講廳辦理，並透過轉播站、網路直播及網站資料庫等線上轉播，讓無法親自到場聆聽之國內外民眾參與。更多資訊請參閱：
<http://science.nchc.org.tw>



The Reading the Science Masters Sunday Lecture Series invites outstanding scientific researchers to share their work in a popular science format in the National Science and Technology Museum's International Lecture Hall. These lectures are also available online for those unable to attend in person. More information:
<http://science.nchc.org.tw>

論壇及研討會 Forum and Conference

十館館長高峰論壇

Museum Summit of Directors

*包含演講及座談

11.05 Thu. 09:30-12:00; 13:30-17:20

國立自然科學博物館

中文 · 網路直播

National Museum of Natural Science

Mandarin · Live Stream



Ten Museum Directors will share and discuss their opinions on 4 topics: "Management Policy and Innovative Practices of Science Museum", "Interdisciplinarity and Diversified Development of Exhibitions and Educations", "Souvenirs and Marketing Strategies of Science Museum", and "Management of Science Museum – with the Pandemic Covid-19".

本次論壇邀請國內外10位館長，就「科學館的經營理念及創新作法」、「展教內容的跨域結合及多元發展」、「科學館的文創商品與行銷策略」，以及「新冠疫情下的科學館經營」等主題進行分享與討論。

戲劇 Drama



「海底尋寶」黑光劇
Black Light Theater: Treasure Hunting

10.31sat. 14:15/15:15

國立自然科學博物館 國際會議廳 藍廳
中文 · 一般大眾/親子 · 免費
Conference room (Blue),
National Museum of Natural Science
Mandarin · Public/Parent-child · Free



小男孩東東想為媽媽準備生日禮物而在夢鄉中結識小丑魚，並與之在海中探險巧遇象牙貝、石鱉、珍珠貝等，還差點被章魚捕食……。從戲劇故事中認識貝類的特性與生活環境等。

Dong-Dong is a boy who wants to prepare a birthday gift for his mother. He meets a clownfish in a dream in which he explores the sea, encountering tusk shells, chitons, pearl oysters, and an octopus. Through this story, information on the characteristics and habitats of marine invertebrates is conveyed.

「ㄟ~蟲蟲在我家？」
Hmm...Are There Bugs in My House?

11.01sun. 10:15/13:15

國立自然科學博物館 國際會議廳 藍廳
中文 · 一般大眾/親子 · 免費
Conference room (Blue),
National Museum of Natural Science
Mandarin · Public/Parent-child · Free



您想知道蟑螂、蜘蛛、衣魚、跳蚤及塵蟎等為什麼選擇住我們的家嗎？想知道誰是捕蟑螂高手？想知道家中的蟲住民和環境有什麼密切關係嗎？

Do you want to know why cockroaches, spiders, silverfish, fleas, and dust mites choose to live in our homes? Who is the master cockroach hunter? What is the relationship between insect residents and the environment?

「賽德克·巴萊」布袋戲
Seediq Bale Puppet Show

11.01sun. 11:15/14:15

國立自然科學博物館 科學教室(二)
中文 · 建議3歲以上觀眾觀賞 · 免費
Science classroom (2),
National Museum of Natural Science
Mandarin · Suitable for age 3+ · Free



將霧社事件歷史登上舞臺，以布袋戲方式詮釋歷史，讓觀眾知道賽德克族人對抗日本高壓、強權的過程。歡迎親子們藉由看戲，將歷史事件烙印在腦海裡。

The history of the Wushe Incident is interpreted in this puppet show. Audiences can understand the pressures experienced by the indigenous Seediq people in their resistance against Japanese occupying forces. Parents and children are welcome to view this thought-provoking historical drama.

鬧龍宮舞臺戲劇
Peking Opera Performance

11.01Sun. / 11.08Sun. 14:00-15:00

國立海洋科技博物館 主題館 5F
中文 · 建議3歲以上觀眾觀賞 · 免費(須購買展示場門票入場)
5F, Main Exhibition Building,
National Museum of Marine Science and Technology
Mandarin · Suitable for age 3+ · Free (Admission ticket is required)



融猴性、神性和人性於一體的孫悟空機智勇敢，敏捷矯健。表演獨具特色，縱跳騰挪，開打熾烈，國立臺灣戲曲學院精彩而富於技巧性的武打令人眼花撩亂，目不暇給。

Sun Wukong, who possesses the nature of a monkey, as well as divinity and humanity, is smart, brave, agile and strong. This performance is unique, with fantastic jumps and fight scenes. The martial arts skills of the students of the National Taiwan College of Performing Arts are amazing.

瘋狂麥西的實驗室
Crazy Madsey's Laboratory

11.07Sat. / 11.15Sun. 14:00-15:00

國立海洋科技博物館 主題館 5F
中文 · 建議3歲以上觀眾觀賞 · 免費(須購買展示場門票入場)
5F, Main Exhibition Building,
National Museum of Marine Science and Technology
Mandarin · Suitable for age 3+ · Free (Admission ticket is required)



最愛做實驗的瘋狂麥西教授來囉！為了成為宇宙史上最強科學家，他將研發秘密武器，所以他瘋狂在實驗室做實驗，但研究了老半天，實驗一直失敗，到底是甚麼原因讓他遲遲無法成功？原來是他的對手，法蘭克博士派人秘密偷走了麥西的配方，混淆了他的實驗方法，麥西是否可以成功的發明最強科學實驗呢？一起來往下看~

Crazy Madsey loves experimenting. To become the strongest scientist in the history of the universe, Crazy Madsey is working on a secret weapon. However, every experiment fails. Why? Because a rival has sent someone to steal the formula. Can Crazy Madsey successfully complete the most fantastic scientific experiment? Let's find out!

科學演示 Science Demonstration



科學馬戲團 - 魔術科學秀

Science Circus - Magic Science Show

10.31 Sat. 11.01 Sun. 11.14 Sat. 11.15 Sun.

臺北科學藝術園區、
國立臺灣科學教育館 1樓大廳、5樓極大極小展區
中文 · 一般大眾 · 免費

Taipei Science & Art Park,

1F Lobby, 5F Exploring the World of Physics Exhibition Area, National Taiwan Science Education Center

Mandarin · Public · Free

隨著科技及網路的發達，透過鏡頭，魔術背後的科學原理運用讓人一覽無遺，也讓人嘖嘖稱奇，魔術不再是一個不登大雅之堂的藝術表演。科學節我們就來一場酷炫的驚奇燈光秀吧！透過魔術師的技巧及科學專業的詮釋，讓魔術與科學結合，讓大家更樂意接近科學，探究科學原理。



Through technology, the Internet, and the lens, applications of scientific principles to magic tricks are revealed. Through a magician's skill and interpretations of scientific principles, magic and science combine, encouraging the public to approach science and explore scientific principles.

科學演示秀

Science Demonstration

10.30 Fri. 11.03 Tue. - 06 Fri. 11:00/15:00

11.11 Wed. - 13 Fri.

國立自然科學博物館 科學中心 演示教室
中文 · 建議 9 歲以上觀眾觀賞 · 免費

Demo classroom, Science Center,
National Museum of Natural Science

Mandarin · Suitable for age 9+ · Free

科博館團隊結合博物館的常設展覽和專題展覽，利用簡單的標本、模型和裝置進行了各種科普演示，展示了有趣的科學理論和現象。讓一般大眾也親身感受科學的魅力，而不是枯燥無味的課堂知識。



In conjunction with the National Museum of Natural Science's permanent and special exhibitions, a variety of science demonstrations have been developed using specimens, models, and devices to convey interesting scientific theories and phenomena.

影展與展覽 Film Festival and Exhibition



繪製世界 - 故宮文物藝術中的科學與科技

Imagining The World - Science and Technology in the Art of NPM

08.14 Fri. - 11.15 Sun. 09:00-17:00

國立海洋科技博物館 深海影像廳
中文(英文導覽) · 一般大眾/學生 · 結合常設展收費(250元)
Deep Sea Theater,
National Museum of Marine Science and Technology
Mandarin (English guide) · Public/Students · 250 NTD

在現代技術普及之前，人類僅能以繪圖的方式記錄世界。隨著科技的不斷地提升，製作日益精準，單純的圖像，很快的就淬鍊出以美學為主的藝術作品。本次特展以國立故宮博物院中兼具科學與藝術的藏品為基礎，以「躍然紙上的生態」、「航向世界的舞臺」、「臺灣古今地圖」三大主題，對生態環境、地理空間與交通工具的珍貴紀錄。觀眾可以透過對比書畫文獻中所紀錄的動植物與地貌世界認識藝術與科學。

Before modern technology, people could only record the world by drawing. With continuous technological advancements, images have become works of art. This special exhibition is based on the collection of scientific art in the National Palace Museum. With the three themes of "ecology", "marine navigation", and "historical maps", valuable ecological, geographic, and transportation records are presented. Visitors learn about animals, plants, and landscapes of the world through paintings and calligraphy works, furthering their understanding of art and science.



海洋公民科學家成果展

Final Presentations of the Marine Citizen Scientists Project

11.01 Sun. - 11.30 Mon. 09:00-17:00

國立海洋科技博物館 潮境海洋中心
中文 · 一般大眾/學生 · 免費
Chaojing Ocean Center,
National Museum of Marine Science and Technology
Mandarin · Public/Students · Free

與四季微形展「冬之鸞」結合，呈現2020海洋公民科學家行動計畫之總成果，展出學生製作的珊瑚故事箱、鸞保育教案，以及前所未見的微塑膠攝影展，呈現隱藏在海鮮中但肉眼看不見的微塑膠，期盼能讓更多人注意到海洋廢棄物問題，透過成果展讓大眾更加了解海洋保育的重要性。



The achievements of the Marine Citizen Scientists Project include coral story boxes, horseshoe crab lesson plans, and microplastics photography exhibition, which reveals plastic particles invisible to the naked eye in the seafood we eat. It is expected that through this project, awareness of the issues of marine debris can be raised and the public can understand the importance of marine conservation.

海洋嘉年華 - 趣味海洋生物特展

Ocean Festival

07.01 Wed. - 2021.03.01 Mon. 09:00-17:00

國立海洋科技博物館 主題館 1F 特展廳

中文 · 一般大眾 · 200元

Special Exhibition Gallery, 1F Main Exhibition Building,
National Museum of Marine Science and Technology
Mandarin · Public · 200NTD

海洋生物美麗可愛又逗趣的習性，身受人們的喜愛，也是普羅大眾寵物首選，因其龐大的商機，發展出人工繁殖的技術，來代替部分野生資源的採捕。藉由本展，從生物習性、特徵與行為，了解其背後的原因，讓參觀者可以從知識、產業與科學的面向，來了解目前人類對於這領域的科研努力，也希望藉由寓教於樂的方式，傳遞海洋生物的知識與保育動物的觀念。

Marine organisms are loved by the public due to their beauty and interesting habits. The development of the pet market has led to breeding instead of harvesting. This special exhibition focuses on the habits, characteristics, and behaviors of various marine life forms. Visitors can learn about research on marine life from the aspects of knowledge, industry, and science. It is hoped that through this exhibition marine life knowledge and marine conservation are promoted in fun and entertaining ways.



科學電影影展暨影後講座

Film Festival Lectures

10.31 Sat. / 11.07 Sat. / 11.28 Sat.
10:00-12:00

國立海洋科技博物館 教育中心 國際會議廳

中文 · 建議 6 歲以上觀眾觀賞 · 免費

Conference Hall, Education Center,
National Museum of Marine Science and Technology
Mandarin · Suitable for age 6+ · Free

透過輕鬆看電影方式搭配館內導覽及教案，輕鬆學習科學原理及知識。



Scientific principles and knowledge are conveyed through film screenings accompanied by guided commentary and educational activities.

敲敲打打工作坊

Tinkering Workshop

平日(Weekdays) 假日(Weekends)
07.15 Wed.起 09:00-17:00 09:00-18:00

國立臺灣科學教育館 3F 展區

中文 · 一般大眾 · 免費(須購買展示場門票入場)

3F Science Exploration Area,
National Taiwan Science Education Center

Mandarin · Public · Free (Admission ticket is required)



「雙手是展現人類智慧的工具。」- 瑪麗亞·蒙特梭利

歡迎來到國立臺灣科學教育館，在展覽中你將體驗如何用「手」思考，創作各式各樣的原型方案，帶著好奇心與你的夥伴盡情玩樂，嘗試各種可能性，一起在這裡「敲·敲·打·打」吧！

自2016年起，國立臺灣科學教育館與美國舊金山探索館共同合作，引進「敲敲打打工作室」(Tinkering Studio) 一系列教育活動，以 PIE (Playful Invention and Exploration) 教育理念為中心，活動內容設計融合STEAM領域相關知識，期望觀眾在動手做及玩樂中，能夠主動探索、自我學習，同時透過共同協作、討論與分享，發展充滿創意、實踐自我的設計。

本次展覽包含六大主題：「塗鴉機」、「風管與飛行器」、「快樂城市」、「彈珠機」、「光影遊戲」與「連鎖反應」，營造開放式的學習環境，鼓勵大家從中自行發掘問題、尋找解決方案。

"The hands are the instruments of man's intelligence"-Maria Montessori

In the National Taiwan Science Education Center (NTSEC)'s Tinkering Workshop, experience how to "think with your hands". With family and friends, as well as your curiosity, explore possibilities. Ready, set, tinker!

In collaboration with the Exploratorium in San Francisco, the NTSEC introduced the "Tinkering Studio" in 2016. Centered on the concept of PIE (Playful Invention and Exploration), it provides creative STEAM activities and opportunities for tinkerers to explore and learn through collaboration, discussion, and sharing. It is an immersive and active place where visitors can express themselves and realize their creative potential.

This exhibition covers six themes: "Scribbling Machines", "Wind Tubes", "Happy City", "Marble Machines", "Light Play", and "Chain Reaction". It creates an open learning environment that encourages people to discover problems and solutions.

博物館之橋

Museum Bridge

平日(Weekdays) 假日(Weekends)
07.15 Wed.起 09:00-17:00 09:00-18:00

國立臺灣科學教育館 8F 西側

中文 · 一般大眾 · 免費(須購買展示場門票入場)

8F West side,
National Taiwan Science Education Center

Mandarin · Public · Free (Admission ticket is required)



博物館之橋是一座連結人與自然、科學與藝術的思辨之橋。運用當代的結構用集成材與鋼結構設計，精巧的呈現了構造、力學與材料之美。利用橋身彎曲的造型與橋梁的桁架系統，有效的穩定了橋梁的主體並減少原先較繁複的懸吊點設計；木構造設計則減輕了橋的整體重量，對於建築物的整體耐震更為安全。這座橋不僅展現了博物館策展團隊與設計者對於材料、方法與空間的想像力，更期待這座橋能引領你在漫步的過程中，或者遠眺山嵐，或者細究構造，在一次一次的穿梭中，體會屬於你的博物館之橋。

The Museum Bridge connects people to nature and science to art. Its contemporary structure is the result of the integration of different materials including steel, and mechanics. The curved shape and truss system stabilize the structure and significantly reduce the complexity of the original suspension-point design. The wooden construction reduces the weight and provides good overall shock resistance. The bridge exemplifies applications of materials, engineering, and spatial design imagination of museum curators and designers. Repeatedly stroll across this bridge, enjoying the mountain views and studying its structure. You may even imagine your own museum bridge.

「繽紛的生命」特展

Biodiversity Is Good

05.20 Wed. - 2021.03.21 Sun. 09:00-17:00

國立自然科學博物館 第四特展室
 中文·一般大眾·免費(須購買展示場門票入場)
 4th Special Exhibition Room,
 National Museum of Natural Science
 Mandarin·Public·Free (Admission ticket is required)

在「繽紛的生命」特展中共展示了26具哺乳動物骨骼、25件哺乳動物毛皮標本、9件化石精品，以及39件各種鳥類立姿標本。此外，也首度公開展示超過800件典藏的世界的鳳蝶與兜蟲標本，並在中臺灣首度舉辦螞蟻活體展示。
 不論您是單純來欣賞生物之美與奇，或來看身邊的生物夥伴，或欲深入了解生物多樣性背後的科學，甚至想知道可以為臺灣的生物和環境做些什麼，都歡迎您把握這難得的機會前來參觀。

In this special exhibition, 26 mammal skeletons, 25 mammal fur specimens, 9 fossils, and 39 bird specimens are on display. There are also more than 800 specimens of the world's butterflies and rhinoceros beetles, and the first live ant demonstration in central Taiwan.

No matter whether simply admiring the beauty and wonder of biology, learning about the organisms around you, gaining a deeper understanding of biodiversity, or wanting to know what you can do to protect the environment, this exhibition is worth visiting.

「時空探秘：滅絕、新生，與未來幻境」特展

Exploring the Fantastical Earth

07.22 Wed. - 2021.02.28 Sun. 09:00-17:00

國立自然科學博物館 第一特展室
 中文·一般大眾·特展全票 230元、特展優待票(憑證) 180元
 1st Special Exhibition Room,
 National Museum of Natural Science
 Mandarin·Public·Special Exhibition ticket 230 NTD,
 Special Exhibition Ticket-Discount, discount with certificates 180 NTD

本特展應用劇場式與沉浸式數位科技展演手法，以超實境互動及多層式探索學習體驗設計，打造沉浸式光影科技藝術劇場式體驗場域，希望能帶領觀眾穿梭時空，歷經地球生命的滅絕與新生，激發環境永續與保育的新思維與生活實踐。觀眾可運用數位藝術進行彩繪創作參觀過程所蒐集的虛擬物件，共創綺麗繽紛的未來夢想世界。

夜間開放時段(Nighttime Open)：

10.30 Fri. - 31 Sat. / 11.06 Fri. - 07 Sat. 17:00-21:00



This special exhibition applies digital technologies, as well as hyper-realistic interactive and multi-layered exploratory learning in an immersive light art theater-style experience. Extinction and rebirth inspire new thinking and actions related to environmental sustainability and conservation. Visitors can use digital art techniques to decorate virtual objects, creating a beautiful and colorful future dream world.

「自然變調 - 失序的生態系」特展

Changing Nature - Disordered Ecosystems

04.01 Wed. - 11.15 Sun. 09:00-17:00

國立自然科學博物館 第二特展室
 中文、英文·一般大眾·免費(須購買展示場門票入場)
 2nd Special Exhibition Room,
 National Museum of Natural Science
 Mandarin, English·Public·Free (Admission ticket is required)

人類文明造成的干擾和破壞，導致氣候與環境的劇烈變遷，也改變了自然運行的既有秩序。
 本特展透過橫跨海陸空域、從熱帶到極地的全球各地生物實際案例，以國內外珍稀標本、影像與主題式情境體驗展示，帶觀眾設身處地體會生物們正在遭受的衝擊與生存挑戰，並思考人類該如何與其他物種永續共存。

Human-caused pollution and habitat destruction do not only lead to dramatic change of climate and environments, but also alter the orders of the nature. The exhibition shows not only precious specimens worldwide but also situational displays to have audience empathy for challenges other creatures encountered, and live a sustainable life with others.

「郵說昆蟲」特展

Insects on Stamps Exhibition

06.24 Wed. - 2021.02.21 Sun. 09:00-17:00

國立自然科學博物館 第三特展室
 中文、英文·一般大眾·免費(須購買展示場門票入場)
 3rd Special Exhibition Room,
 National Museum of Natural Science
 Mandarin, English·Public·Free (Admission ticket is required)

本特展將透過郵票向觀眾介紹昆蟲的神奇和魅力、昆蟲為何能成功適應地球環境的變遷、昆蟲和人類的關係，各種各樣的昆蟲郵票，集中了昆蟲世界的精華，濃縮了人類認知昆蟲的歷史，反映了人類和昆蟲的關係。在欣賞這些郵票的同時，來一趟昆蟲的知性之旅吧！歡迎您一起來探索「郵說昆蟲」，進入奇妙的昆蟲世界！

In this special exhibition, fascinating aspects of insects are presented through illustrations on postage stamps, including successful adaptations to changes in global environments and the relationships between insects and humans. Insect-themed stamps show the essence of the insect world, condensing human knowledge of insects. While appreciating this collection of postage stamps, embark on a journey of learning. We welcome you to explore the magical world of insects!



海洋因塑（素）聯合特展

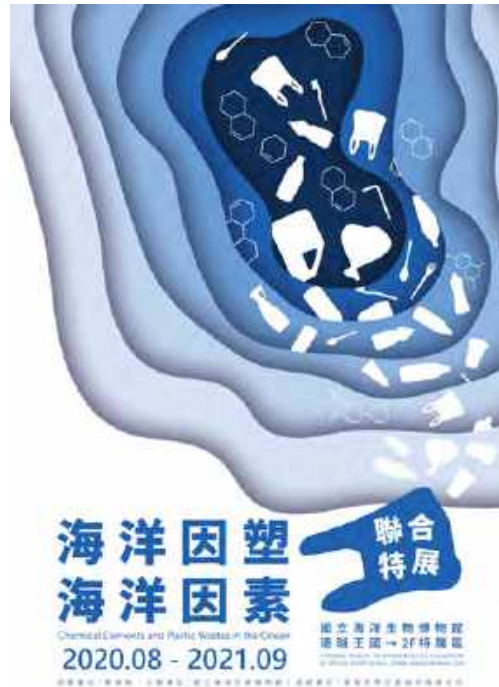
Ocean Plastics and Chemical Elements
Joint Exhibition

08月 August - 2021.09月 September 09:00-17:30

國立海洋生物博物館 珊瑚王國館 2F 特展區
中文 · 建議 12 歲以上觀眾參加 · 免費Special Exhibition Gallery, 2F Coral Kingdom Pavilion,
National Museum of Marine Biology and Aquarium
Mandarin · Suitable for age 12+ · Free

本特展串連家、海洋以及海洋化學廢棄物議題，應加入生活中的化學元素概念，除了呈現垃圾過量而造成海洋甚至是地球所面臨的問題，也讓觀眾了解海洋減塑問題，並加入化學元素於海洋與生活的關係，進而關心化學與海洋環境等議題。

This exhibition connects home, ocean, and marine debris issues with chemical elements. In addition to presenting the impacts on the oceans and the earth due to excessive waste, this exhibition provides an understanding of the importance of reducing the use of plastics and caring about the marine environment.



魯凱漁你相遇

Rukai River Fishing Exhibition

07.14 Sat. - 2021.03 月 March 09:00-17:30

國立海洋生物博物館 臺灣水域館河口區
中文 · 建議 12 歲以上觀眾參加 · 免費Waters of Taiwan,
National Museum of Marine Biology and Aquarium
Mandarin · Suitable for age 12+ · Free

「魯凱漁你相遇」特展透過魯凱族漁獵文化的介紹，除了介紹傳統漁具、漁區，以及常見捕獵的淡水魚種以外，也特地展現了「魚藤捕魚」的傳統特殊漁法，藉此展現魯凱族人對於自身週遭的自然運用，也訴說了族人與溪流生態的平衡、漁獵之外的生態共生，傳達了「取之於自然，用之於自然，回饋於自然」的共融狀態。

This exhibition introduces the indigenous Rukai fishing and hunting cultures, traditional fishing gear and fishing areas, and freshwater fish species. It also presents the traditional Wadrapulu (river fishing with Thickfruit Millettia), which shows how the Rukai make use of what is in their surroundings, while maintaining ecological balance, and the ecological significance of fishing and hunting.



館慶捐贈文物展 - 科技 · 改變

Technology · Change Exhibition

10.31 Sat. - 2021.01.03 Sun. 09:00-16:20

國立科學工藝博物館 北館 B1F 開放式典藏庫
中文 · 一般大眾 · 30元 (須購買展示場門票入場)Open Storage, B1F North Complex,
National Science and Technology Museum
Mandarin · Public · 30 NTD (Admission ticket is required)

科技就是為運用最少能源發揮最大的效益，以保護資源。在博物館典藏的文物展中，可以發現先人在環境保護上的巧思。



Technology can be applied to maximize benefits using the least amount of energy to protect resources. In this exhibition of objects from the museum's collection, discover clever ideas about environmental protection put forth by people of the past.

掌握瞬間 - 底片相機藏品展

Film Camera Collection Exhibition

10.01 Thu. - 2021.01.03 Sun. 09:00-16:20

國立科學工藝博物館 北館 B1F 開放式典藏庫
中文 · 一般大眾 · 30元 (須購買展示場門票入場)Open Storage, B1F North Complex,
National Science and Technology Museum
Mandarin · Public · 30 NTD (Admission ticket is required)

精選科工館典藏相機推出底片相機藏品展，除展出各式各樣的底片相機以回顧相機發展歷程外，並將介紹攝影原理讓社會大眾更清楚了解文物的科學原理與運用。

This exhibition is a retrospective on the development of cameras. Different types of film cameras are displayed to introduce photography concepts and enhance people's understanding of their scientific principles and applications.

智慧烹調與智慧醫療專區展示

Smart Cooking and Medical Care Displays

11.06 Fri. 起 09:00-17:00

國立科學工藝博物館 北館 2F 烹調的科學廳 / 4F 健康探索廳
中文 · 一般大眾 · 免費 (須購買展示場門票入場)2F The Science of Cooking / 4F Adventures in Health Land,
North Complex, National Science and Technology Museum
Mandarin · Public · Free (Admission ticket is required)

透過智慧烹調e生活的概念，推動食材生產履歷與智能飲食健康管理的新概念，體驗「智慧烹調」帶來的便利及美味等；另結合實體物件與多元互動裝置等展示，介紹醫療智慧化技術的最新應用及發展，深刻體驗與認識「智慧醫療」對健康生活的影響。



Based on smart cooking concepts, food production histories and smart diet and health management are explored. Experience the convenience and deliciousness of "smart cooking". In addition, combining physical objects and multiple interactive devices, intelligent medical technologies are introduced, including the latest applications and developments in the field of "smart medicine".

風箏@黃景楨的夢之翼特展 Kites@Buteo Hung's Dream of Wings

07.18 Sat. - 2021.03.14 Sun. 09:00-17:00

國立科學工藝博物館 北館 B1F 第四、五特展廳
中文 · 一般大眾 · 收費特展 (全票 280元)
4th/5th Special Exhibition Room, B1F North Complex,
National Science and Technology Museum
Mandarin · Public · Special Exhibition Full ticket: 280 NTD



與風箏創作者—黃景楨合作，推出富含藝術性與知識性的收費特展，展陳數百件風箏作品與豐富的相關知識。

In collaboration with kite creator Huang Jingzhen, this fee-based special exhibition is rich in artistry and knowledge, and includes hundreds of kites.

乾淨的水資源 Clean Water Resources

10.01 Thu. - 11.30 Mon. 09:00-17:00

國立科學工藝博物館 北館 6F 啟動創新實驗場
中文 · 一般大眾 · 免費 (須購買展示場門票入場)
Innovating a better future, 6F North Complex,
National Science and Technology Museum
Mandarin · Public · Free (Admission ticket is required)



藉由手動操作來認識災害來臨時的缺水問題及處理方式，模擬救災淨水系統 - Qwater 之運作。

Through hands-on displays learn how the temporary lack of water due to disasters is handled. Simulate operation of the life-saving water purification system - Qwater.

廢棄液晶產品的奇幻旅程 Fantastic Journey of Waste Liquid Crystal Products

10.01 Thu. - 11.30 Mon. 09:00-17:00

國立科學工藝博物館 北館 6F 啟動創新實驗場
中文 · 一般大眾 · 免費 (須購買展示場門票入場)
Innovating a better future, 6F North Complex,
National Science and Technology Museum
Mandarin · Public · Free (Admission ticket is required)



以關懷環境議題出發，以手動操作方式來認識廢棄液晶產品的回收過程，了解循環經濟與我們所處大自然的共生關係。

Through hands-on activities learn how waste liquid crystal products are recycled, as well as the relationship between the circular economy and the environment in which we live.

一條愛心環保毛毯的故事 The Journey of Eco-blanket

10.31 Sat. - 2021.04.04 Sun. 09:00-17:00

國立科學工藝博物館 北館 B1F 長廊
中文 · 一般大眾 · 免費 (須購買展示場門票入場)
Gallery, B1F North Complex,
National Science and Technology Museum
Mandarin · Public · Free (Admission ticket is required)



透過展示及定時展演的形式，讓觀眾了解寶特瓶如何華麗變身為溫暖人心的環保毛毯。

Through displays and demonstrations, audiences are taken on a journey of transformation of recycled PET bottles into a warm Eco-blanket.

科學電影節 Science Film Festival

10.31 Sat. - 11.15 Sun.

國立科學工藝博物館 北館 B3F 大銀幕電影院
中文發音，中英文字幕 · 一般大眾 · 以大銀幕電影票價為準
3D Theater, B3F North Complex,
National Science and Technology Museum
Mandarin · Public · 3D Theater ticket price

提供富含科學性與環保議題的3D立體電影，內容寓教娛樂，適合環境教育推廣。

The Science Film Festival presents educational and entertaining 3D films on various aspects of science and environmental issues.



科普影展 Popular Science Film Festival

11.07 Sat. / 08 Sun. / 14 Sat. / 15 Sun.
10:30-11:40; 13:30-14:40

國立臺灣科學教育館 9F 國際會議廳
中英文字幕 · 建議 8 歲以上觀眾觀賞 · 免費
9F International Conference Hall,
National Taiwan Science Education Center
Mandarin and English subtitles · Suitable for age 8+ · Free

全臺第一部自製，以臺灣為背景的科幻災難動畫電影「重甲機神：神降臨」特映會，以及與環境永續相關議題，影片不間斷播放。

This festival features a special screening of "Deux Ex Baryon", which was produced in Taiwan. It is a science-fiction animated disaster movie also set in Taiwan. In addition, there are films on issues related to environmental sustainability.



太空劇場、立體劇場

Space Theater and 3D Theater Film Screenings

10.30 Fri. - 11.15 Sun. 09:30-17:30

國立自然科學博物館 太空劇場、立體劇場

中文 · 一般大眾 · 免費

Space Theater and 3D Theater,
National Museum of Natural Science

Mandarin · Public · Free

科博館為了回饋民眾多年來的熱情支持，特地在太空劇場和立體劇場安排了多部精選影片，影片內容精采多元，而且只有在科學節期間(10/30-11/15)特別放映，機會錯過可能就再也看不到囉！



During the Taiwan Science Festival, there will be showings of outstanding films in the National Museum of Natural Science's Space Theater and 3D Theater from October 30 to November 15.

臺灣野望國際自然影展

WildView Taiwan International Nature Film Festival

10.31 Sat. - 11.15 Sun. 10:00-12:00
週三、五、六、日 Wed./Fri./Sat./Sun. 14:00-16:00

國立自然科學博物館 國際會議廳 紅廳

外語發音，中文字幕 · 建議 10 歲以上觀眾觀賞 · 免費

Conference room (Red),
National Museum of Natural Science

Mandarin subtitle · Suitable for age 10+ · Free

由目前世界最大自然影展Wildscreen影展的得獎或入圍作品中挑選出20部世界級的頂尖作品，透過邀集相關領域學者專家與談、影片介紹、影片欣賞、心得分享與觀眾互動等方式辦理臺灣野望國際自然影展活動，提供民眾更寬廣的自然環境視野，並且掌握全球自然環境的脈動，達到推動大眾自然科學教育的目標，增進博物館輔助社會教育的功能。



Twenty world-class works were selected from among the award-winning and nominated works of the world's largest nature film festival, Wildscreen Film Festival. Scholars and experts in related fields have been invited to carry out discussions, film introductions, film critiques, and experience sharing with audiences. The Wildview Taiwan International Nature Film Festival provides audiences with a broader view of the natural environment and an understanding of the pulse of the global environment to promote natural science education and enhance the museum's social education function.



科學競賽 Science Competition

潔能科技創意實作競賽決賽暨頒獎典禮 Clean Energy Innovation Contest and Awards Ceremony

10.18 Sun. 09:00-17:00

國立科學工藝博物館 北館 1F 大廳及 2F 第1、2特展廳
中文 · 大專、高中職及國中入選決賽者 · 免費
1F Hall and 2F 1st & 2nd Exhibition room, North Complex, National Science and Technology Museum
Mandarin · Finalists · Free

為因應能源短缺危機及接軌能源科技之未來發展，能源教育的扎根與推廣更顯重要，相信透過本潔能競賽優秀作品的啟發，將能帶動學子、民眾對於能源議題的重視，促進國人關注潔能科技創新應用及環境永續的社會責任。



Due to energy shortages and keeping in line with energy-related technologies, energy-related education has become important. Through the Clean Energy Innovation Contest, students and the public are inspired to focus on energy issues and innovative applications of clean energy technologies, as well as value their social responsibility related to environmental sustainability.

2020 創意機器人挑戰賽 2020 Creative Robotics Competition

11.07 Sat. 10:00-16:00

國立科學工藝博物館 北館 1F 大廳
中文 · 國中、小學生 · 報名收費(報名費用含展示場入館)
Hall, 1F North Complex, National Science and Technology Museum
Mandarin · Junior high and elementary school students · Registry fee

「創意機器人挑戰賽」為提升我國學生有關機器人科技素養暨跨領域科學知識之整合與運用，藉機器人創意競賽提供學生運用科技及資訊整合能力的展現平臺。本競賽將藉由多變化創意的軌道排列組合，並結合循跡避障的挑戰，啟發學生靈活思考及發揮創意。



The purpose of the "Creative Robotics Competition" is to elevate robot technology literacy and cross-disciplinary integration and utilization of scientific knowledge among students. This competition serves as a platform for students to apply technologies and integrate information. There are a variety of opportunities to be creative including tracking and obstacle avoidance challenges.

火星任務競賽 (*與東海大學合辦) Mission to Mars Competition (*Co-organized with Tunghai University)

11.14 Sat. 14:00 火星科展 Mars science fair

國立自然科學博物館 地球環境廳 2 樓廊道
Corridor, 2F Global Environment Hall, National Museum of Natural Science

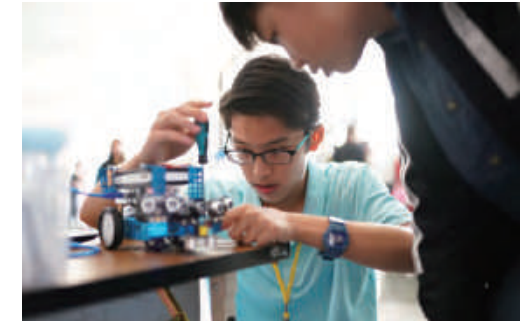
11.15 Sun. 10:00 火星車降落賽
Rover landing contest

14:00 火星車避障賽
Rover obstacle avoidance contest

國立自然科學博物館 橢圓形廣場
Open-air area, National Museum of Natural Science

中文 · 一般大眾 · 報名費用: 每組750元(觀賽免費)
Mandarin · Public · Registration Fee: 750 NTD/group;
Free to watch the game

「火星任務競賽」活動是以高中生和大学生為主的全國科學競賽，包含火星科學展覽以及火星車降落和避障大賽。火星科展學生必須組隊並且利用基礎科學理論知識來解決一個在火星生存的問題。火星車降落大賽則是讓高中生發揮科學創意，發展更好的火星車軟著陸降落方式。火星避障賽則是自行打造有避障功能的火星車進行競賽。



"The Mission to Mars Competition" is a national science competition for high school and college students. It includes a science fair focused on ways to survive on Mars. The competition aspect encourages the creation of systems for a Mars rover that can achieve a soft landing and avoid obstacles during movement.

海洋科技創客 - 遙控帆船創客競賽 Marine Technology Maker: Remote Control Sailboat Maker Competition

10月 October 遙控帆船創客競賽 / 11月 November 成果展

國立海洋科技博物館 教育中心室內教室、戶外水池
中文 · 國高中生(15-18歲) · 免費
Education center indoor classrooms and outdoor pools, National Museum of Marine Science and Technology
Mandarin · Students for 15-18 years old · Free

活動以STEM教育的科際整合、與生活經驗連結、團隊合作等教學方式舉行。經雷射切割機裁切的船體組裝零件教學、電路元件整合，完成遙控帆船後試航並紀錄航行數據，讓學員自行發揮。秉持「創客」精神進行結構改造，或帆面變更設計的方式，不斷試航及調整，使遙控帆船航行更為符合需求情境，最後進行遙控帆船競速及操控競賽。

This competition is designed to support interdisciplinary STEM learning, to connect learning to daily experiences, and to solve problems through collaboration. Participants use laser cutting machines to produce parts and integrate circuits to complete a working remote-control sailboat. Each sailboat is tested and its data recorded.

2020 全國中學生遙控帆船 STEAM 創客大賽

活動目的：鼓勵青少年「動手做」，發揮「創意巧思」，並透過運用STEAM跨領域知識，增加解決問題的精神與能力，同時提升其「美感認識與體驗」與「科學探究」的能力。

活動對象：全國12年級學生(以109學年為準)。

重要日期

報名日期	自7月31日起 12:00起至 8月24日止 17:00止
開幕日期	8月15日(六) 09:00/國立海洋科技大學 國立海洋工程學院
	8月22日(六) 09:00/慈惠大學 國立海洋工程學院
	8月29日(六) 09:00/國立成功大學 國立海洋工程學院
	8月29日(六) 09:00/國立交通大學 國立海洋工程學院
	8月29日(六) 10:00/國立成功大學 國立海洋工程學院
	8月29日(六) 10:00/國立成功大學 國立海洋工程學院
決賽日期	10月17日(六) 10:00/國立海洋科技博物館教育中心

活動洽詢
 報名專線: 02-24690004 # 7025 / info@nstm.org.tw
 主辦單位: 國立海洋科技博物館



工作坊 Workshop

搶救北極之王 Rescue Polar Bear

11.01Sun. / 07Sat. / 08Sun. 10:00-11:30

國立自然科學博物館 地球環境廳 1樓
中文 · 適合幼稚園中班至國小四年級學童(需網路報名) · 免費
1F Global Environment Hall,
National Museum of Natural Science
Mandarin · Suitable for 4-10 years old · Free

本活動從遊戲與繪本帶領觀眾認識北極熊以及牠們面臨的生存困境，希望能藉此喚起大眾對氣候變遷的重視，並由「搶救北極之王」體驗活動讓參與的觀眾理解我們能有哪些積極作為可以減緩全球暖化，並能在日常生活中落實節能減碳的生活方式。



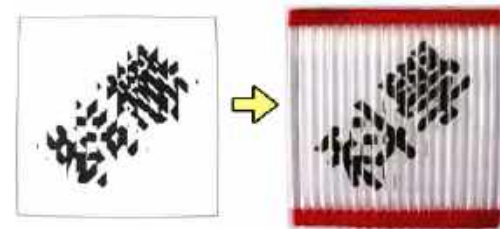
By using story book and games, this "Rescue Polar Bear" activity bring awareness of the survival challenges faced by the polar bear under the impact of climate changes.

魔法科學實作 Scientific Practices of Magic

11.07Sat. / 08Sun. / 14Sat. / 15Sun.
10:00-11:00; 14:00-15:00

國立自然科學博物館 科學教室
中文 · 一般大眾 · 免費
Science classroom,
National Museum of Natural Science
Mandarin · Public · Free

以魔法般的科學實作，引領觀眾一窺科學的奧秘。
實作內容包括：
(1)密碼解碼器（光的折射）
(2)跳舞水珠（法拉第波）
(3)神奇彈跳泡泡（表面張力）



Audiences are introduced to the marvels of science through three magic-based demonstrations:
(1) Decoder (light refraction)
(2) Dancing droplets (Faraday waves)
(3) Bouncing bubble (surface tension)

STEAM親子假日學院(*與海科館合辦) STEAM Parent-Child Weekend Academy (*Co-organized with NMMST)

11.01Sun. / 08Sun. / 15Sun. / 21Sat. / 28Sat.
09:00-12:00

新北市 自強國民小學
中文 · 親子(9-12歲) · 免費
Ziqiang Elementary School, New Taipei City
Mandarin · Parent-child (9-12 years old) · Free

全國唯一一級STEAM大聯盟總部（新北市自強國小），11月週週有活動。從生活素材出發，將科學原理與玩具設計結合，在新北市STEAM跨域輔導團老師們的指導下，讓親子一起探究實作、培養跨域整合的素養，是全球中小學教育的新方向。
活動詳情請查閱：<https://steam.ntpc.edu.tw/>



The only STEAM parent-child courses in Taiwan are held each weekend in November. Based on daily life themes, scientific principles and toy design are integrated, New Taipei City STEAM interdisciplinary guidance team members provide instruction during exploratory activities, enabling participants to cultivate cross-disciplinary literacy-a new trend in global primary and secondary education.

海洋公民科學家行動計畫 - 珊瑚的復育

Marine Citizen Scientist Action Project - Coral Reef Restoration

11.10 Tue. 成果發表 09:00-17:00

國立海洋科技博物館 潮境海洋中心
中文 · 一般大眾 · 免費
Chaojing Ocean Center,
National Museum of Marine Science and Technology
Mandarin · Public · Free

以珊瑚保育環境教育課程為主，以Coral Watch珊瑚健康監測公民科學運動開始，針織造礁手工藝為輔，讓臺灣民眾及學生了解海洋問題無國界、珊瑚礁的多樣化，讓更多人來關心珊瑚保育的議題。



The purposes of this project are to let the public and students understand ocean-based issues, which cross national boundaries, and learn about coral reef biodiversity and coral reef conservation efforts. It begins with Coral Watch citizen science coral health monitoring and extends to coral reef art.

海洋公民科學家行動計畫 - 海鮮微塑膠調查

Marine Citizen Scientist Action Project - Microplastics Survey in Seafood

11.12 Thu. - 11.13 Fri. 成果發表 09:30-17:30

國立海洋科技博物館 教育中心 國際會議廳
中文 · 一般大眾 · 免費
Education Center (International Conference Hall),
National Museum of Marine Science and Technology
Mandarin · Public · Free

透過高中生動手探究海鮮體內的微塑膠調查，讓學生能更深入的體會人類廢棄物所造成的汙染，並反思便利生活下帶來的環境問題，並將成果於國際海廢論壇上發表，開拓學子對於海洋環境議題的國際視野。



High school students survey the levels of microplastics in seafood to better understand the effects of discarded materials on the environment. The results are presented during the marine debris forum to provide an international perspective on marine environmental issues.

新北科學日 (*與海科館合辦)

New Taipei City Science Day (*Co-organized with NMMST)

11.10 Tue. 09:00-12:00

新北市政府 603 大禮堂
中文 · 國中生 12~15歲 · 免費
603 Auditorium, New Taipei City Government
Mandarin · Junior high school students (12-15 years old) · Free

新北市政府藉由淡江大學科學教育中心所設計之大型科學實驗，讓學生除了能體驗動手進行化學實驗的樂趣，也能了解實驗設計的邏輯概念及結果數據分析的重要性。



New Taipei City Science Day features a large-scale experiment conducted by the New Taipei City Government and Tamkang University's Center for Science Education. Students can experience the fun of chemistry through hands-on activities and understand the importance of logic and analysis in the design and implementation of experiments.

廚房科學料理

Cooking Science

11.01 Sun. / 08. Sun. / 15. Sun. 10:00-12:00

國立海洋科技博物館 室內教室
中文 · 建議 6 歲以上觀眾參加 · 免費
Indoor classroom,
National Museum of Marine Science and Technology
Mandarin · Suitable for age 6+ · Free

料理好科學，透過不同主題認識不同國家的文化，並透過食材、設備及科學原理知識，讓料理變得更美味可口，帶給民眾不同的科學饗宴。



Through different themes, participants come to understand the cultures of different countries. Moreover, knowledge of scientific principles is gained through cooking.

Talk Bar

10.31 Sat. / 11.01 Sun. / 11.14 Sat. / 11.15 Sun.

詳細場次時間依官網公布為主

臺北科學藝術園區、國立臺灣科學教育館 1F 大廳
中文 · 建議 8 歲以上觀眾參加 · 免費
Taipei Science & Art Park, and 1F Lobby,
National Taiwan Science Education Center
Mandarin · Suitable for age 8+ · Free

邀請致力於科普傳播的一線推廣者與專家學者們現身說法，分享理念，聊聊各領域科學家的甘苦談，以及他們的研究成果，深入了解臺灣的科學軌跡！



Scientists from various fields share their ideas and bittersweet experiences in the science world, as well as their research results.

科學窩客夏

Science Workshop

11.01 Sun. / 11.14 Sat. / 11.15 Sun.

10:00-12:00; 14:00-16:00 詳細場次依官網公布為主

國立臺灣科學教育館 B1 科學學習中心實驗室、9F 科普傳播中心學堂
中文 · 建議 8 歲以上觀眾參加 · 100-300元 (依各工作坊收費)
Science Learning Center, and Science Communication Center, National Taiwan Science Education Center
Mandarin · Suitable for age 8+ · 100-300 NTD

以STEAM跨領域學習為主，舉辦各種不同主題的窩客夏，一點點理論與更多自由發想的科學創意，不只是把玩，更是學習面對問題的方法！讓全齡及不同科學程度的民眾均能充分體會動手做的科學趣味，從實作中培養科學知能。



Based on STEAM interdisciplinary learning and various themes, participants are given a little bit of information about scientific theories and a lot of freedom for science-based creativity. They have fun while learning how to solve problems. People of all ages are invited to discover science through hands-on activities.

全民科學日 i-Show線上科學課

i-Show Online Science Courses

11.10 Tue.

09:20-10:00 國小1-3年級「魔幻存錢筒」
"Magic Piggy Bank" - Grade 1-3

11:20-12:00 國小4-6年級「加油汽笛」
"Air Horn" - Grade 4-6

13:30-14:10 國中「魔術相機」
"Magic Camera" - Junior High School

15:15-15:55 高中「巴克球」
"Buckyball" - Senior High School

國立臺灣科學教育館
National Taiwan Science Education Center
中文 · 免費 9月開放學校申請同步直播 Mandarin · Free

覺得科學原理抽象複雜、難以理解嗎？
為服務無法到館參加臺灣科學節的學子們，將以國立臺灣科學教育館的i-Show服務，結合線上與線下，推出4堂分齡的線上科學實作課程，讓各縣市師生同步連線一起上課、一起動動手、一起玩科學，呈現科普教育0距離的公平性，使學習跨越時間與空間的限制，達到無所不在、終身學習的目的。
i-Show即時放送網址：
<https://media.ntsec.edu.tw/index.aspx>



Do you think scientific principles are abstract, complicated and difficult to understand? National Taiwan Science Education Center will provide 4 i-Show online courses for the students who are not able to attend the Taiwan Science Festival. They will be combining online and offline courses designed according to different ages. Students and teachers in different cities and counties can synchronously join the class, make and play with science together. This presents the fairness of science education at zero distance, enabling learning to overcome the limitations of time and space, and achieve the goal of ubiquitous and life-long learning.
i-Show online course link:
<https://media.ntsec.edu.tw/index.aspx>

假日科學饗宴活動

Weekend Science Banquet

09月 September - 12月 December 週末 Weekends Only
09:30-11:30; 14:00-16:30

國立科學工藝博物館 南、北館教室
中文 · 大班至國中 · 200-400元
Classrooms in South Complex and North Complex, National Science and Technology Museum
Mandarin · 5-15 years old · 200-400 NTD

為了培養學童基礎科學知識與素養，整合應用科技資源，推出假日科學饗宴活動，辦理樂高與機器人、玩具科學、幼兒創藝、生物世界、物理化學、天文、生活科學...等多元主題活動。
詳情請查閱：<https://serv.nstm.gov.tw/>



To cultivate basic scientific knowledge among and literacy of students, the National Science and Technology Museum has applied science and technology resources to the development of weekend science-based courses, including the use of Lego bricks. These cover robotics, toy science, children's creative arts, the biological world, physics and chemistry, astronomy, and science in daily life.
More information-<https://serv.nstm.gov.tw/>

水保防災加油讚

Soil and Water Conservation for Disaster Prevention

01.01 Wed. - 2021.12.30 Thu. 假日辦理
Weekends Only
11:30-12:00; 14:30-15:00

國立科學工藝博物館 北館 6F 希望 · 未來莫拉克風災紀念館
中文 · 一般大眾 · 免費(須購買展示場門票入館)

Light up the future: Stories of Recovery and Reconstruction after MORAKOT, 6F North Complex, National Science and Technology Museum
Mandarin · Public · Free (Admission ticket is required)

帶領大眾認識臺灣所面對的天然災害威脅與挑戰，並以繪本說故事、教具演示等方式，認識水保防災的重要性。



Participants are introduced to natural disasters in Taiwan. Picture books are used to tell stories and teaching aids for demonstrations to convey the importance of water and soil conservation in the prevention of disasters.

登革熱生物防治體驗活動

Experiential Activity: Biological Control of Dengue Fever

10.31 Sat. - 11.01 Sun. 09:30-16:30

國立科學工藝博物館 北館 1F 大廳
中文 · 一般大眾 · 免費(須購買展示場門票入館)

Hall, 1F North Complex, National Science and Technology Museum
Mandarin · Public · Free (Admission ticket is required)



藉由公蚊籠體驗雄蚊不咬人，引導民眾認識Wolbachia生物防治法，同時蒐集民眾回饋意見，達到雙向溝通的目標。

Participants are introduced to Wolbachia biocontrol strategies and experience firsthand that male mosquitos do not bite. By providing feedback on this activity, the goal of two-way communication is achieved.

災防科技科普演示活動

Science and Technology for Disaster Prevention Demonstrations

10.24 Sat. / 10.31 Sat. / 11.07 Sat. / 11.14 Sat.

國立科學工藝博物館 北館 4F 廊道、科學開門、地震體驗屋
中文 · 一般大眾 · 免費(須購買展示場門票入館)

Corridor, Open Sesame, and Earthquake Chamber, 4F North Complex, National Science and Technology Museum
Mandarin · Public · Free (Admission ticket is required)



透過本年度利用教育部計畫所建置之災防科技教具進行科學演示活動。

Scientific demonstrations are carried out using teaching aids to provide an understanding of the applications of science and technology to disaster prevention.

種子杯DIY活動

Plant Cultivation DIY Activity

10.24 Sat. - 10.31 Sat.

10:00-12:00; 14:00-16:00

國立科學工藝博物館 北館 B3F 臺灣農業的故事
中文 · 建議兒童年齡為 3 歲以上 · 10 元
The Story of Taiwan Agriculture, B3F North Complex,
National Science and Technology Museum
Mandarin · Suitable for age 3+ · 10 NTD

藉由簡易種子杯DIY，引導民眾認識植物栽培原理。

Through a simple DIY project, the public can understand the principles of plant cultivation.



都市叢林種子大冒險戶外導覽活動

Outdoor Plant Tour

10.31 Sat. / 11.01 Sun. / 07 Sat. / 08 Sun.

16:00-16:45

國立科學工藝博物館 北館 B3F 臺灣農業的故事
中文 · 建議兒童年齡為 5 歲以上 · 免費
The Story of Taiwan Agriculture, B3F North Complex,
National Science and Technology Museum
Mandarin · Suitable for age 5+ · Free

藉由館內園區導覽帶領民眾認識植物生存的方式及生活中常見的農產品小知識。

Museum guides introduce the survival methods of plants and provide information about common agricultural products.



動畫轉轉樂

Animated Story Activity

10.24 Sat. / 11.07 Sat. / 11.14 Sat.

14:00-16:00

國立科學工藝博物館 北館 B1F 夢想號
中文 · 建議兒童年齡為 3 歲以上 · 免費
Fantasy, B1F North Complex,
National Science and Technology Museum
Mandarin · Suitable for age 3+ · Free

運用繪圖紙讓孩童自行著色，製作自己的卡通動畫。

Children color paper strips to produce an animated story.



智慧穿戴體驗活動

Smart Wearable Technologies Experiential Activity

10:00-10:30

10.22 Thu. - 11.15 Sun. 15:00-15:30

國立科學工藝博物館 北館 4F 衣技織長
中文 · 建議兒童年齡為 3 歲以上 · 免費
Textile and Clothing, 4F North Complex,
National Science and Technology Museum
Mandarin · Suitable for age 3+ · Free

透過體驗智慧穿戴產品認識其便利性與未來發展。

Through experiential activities, participants learn about the convenience and development of smart wearable products.



龍膽石斑魚生命週期卡DIY活動

Giant Grouper Life Cycle DIY Activity

11.14 Sat.

10:00-12:00; 14:00-16:00

國立科學工藝博物館 北館 B3F 臺灣農業的故事
中文 · 建議兒童年齡為 3 歲以上 · 免費
The Story of Taiwan Agriculture, B3F North Complex,
National Science and Technology Museum
Mandarin · Suitable for age 3+ · Free

運用繪製圖卡的方式簡介臺灣石斑魚養殖產業及認識龍膽石斑魚成長史。

Participants are introduced to grouper aquaculture in Taiwan and the life cycle of the giant grouper while making flashcards.



蝴蝶蘭立體卡片DIY活動

Phalaenopsis DIY Activity

11.15 Sun.

10:00-12:00; 14:00-16:00

國立科學工藝博物館 北館 B3F 臺灣農業的故事
中文 · 建議兒童年齡為 7 歲以上 · 免費
The Story of Taiwan Agriculture, B3F North Complex,
National Science and Technology Museum
Mandarin · Suitable for age 7+ · Free

透過卡片製作讓民眾了解蝴蝶蘭花朵功能與蝴蝶蘭品種的多樣性。

Through the making of flashcards, participants learn about the functions of various parts of a Phalaenopsis and the diversity of Phalaenopsis varieties.



科學大使

Science Ambassador

09.05 Sat. / 12 Sat. / 13 Sun. / 19 Sat. / 20 Sun. / 27 Sun.

09:20-16:40 共12場科普專題講座，每場講座約3小時。

國立自然科學博物館 藍廳
中文 · 18 歲以上之一般大眾 · 免費 (需網路報名)
Conference room (Blue),
National Museum of Natural Science
Mandarin · Public (Suitable for age 18+) · Free

為迎接2020第一屆臺灣科學節的到來，國立自然科學博物館希望號召有志於科學「學習」與「講授」的朋友們共同進行科普推廣，特別規劃「科學大使」培訓課程，由科博館各學門研究人員將豐富的研究新知化為有趣的科普知識，陪伴您走進科學探索與精彩發現的世界，也期待您能在培訓的過程中，從「理解」到「講授」，加入「科學大使」的行列，成為知識推廣的尖兵！

In welcoming the first Taiwan Science Festival in 2020, the National Museum of Natural Science organizes a "Science Ambassador" program to invite the public in engaging in the "learning" and "communication" about science. The program features the rich research discoveries from the museum's scientists and how this knowledge is popularized to the public. We cordially invite you to take part in this journey of amazing scientific discoveries, and along the way, develop yourself into a Science Ambassador who will passionately disseminate scientific knowledge.



愛水大進擊

Water-Saving Activities

10.01 Thu. - 04 Sun. / 10.09 Fri. - 11 Sun.
10:00-12:00; 14:00-16:00

國立科學工藝博物館 北館 1F 大廳
中文 · 一般大眾 · 免費
Hall, 1F North Complex,
National Science and Technology Museum
Mandarin · Public · Free

科工館融入在地化環境議題，以「水環境」為主軸，與經濟部水利署及行政院南部聯合服務中心共同舉辦「愛水大進擊」宣導活動，利用互動性教具，將水資源與環境議題轉換成趣味的闖關活動，以寓教於樂的方式，透過動手實驗、互動體驗方式，提升民眾對於水資源議題之重視，建立全民珍惜水環境之意識。



The National Science and Technology Museum has incorporated local environmental issues into the theme of "water environment". Working together with the Water Resources Agency and the Southern Taiwan Joint Service Center of the Executive Yuan, the "Cherish Water" promotional campaign was organized. Through interactive teaching aids and fun games, water resources and environmental education is provided. By participating in hands-on activities, people gain an understanding of water resources and how to cherish them.

日月光環境教育成果展

ASE Environmental Education Achievements Exhibition

11.13 Fri. - 15 Sun. 10:00-17:00

國立科學工藝博物館 北館 1F 大廳
中文 · 一般大眾 · 免費
Hall, 1F North Complex,
National Science and Technology Museum
Mandarin · Public · Free

財團法人日月光文教基金會與國立高雄科技大學攜手合作，結合多元教育學習管道及分享平臺的結合，帶動學校與社區，共同推動環境教育深耕，並與國立科學工藝博物館合作於臺灣科學節期間，展出相關環境教育實施成果及體驗課程，歡迎大家踴躍參與。



The ASE Cultural and Educational Foundation and the National Kaohsiung University of Science and Technology collaborated to promote environmental education in local schools and communities, with multiple educational channels and a sharing platform. In cooperation with the National Science and Technology Museum, an exhibition on achievements in environmental education and experiential courses take place during the Taiwan Science Festival.

南科太陽能模型車親子營活動 (*與科工館合辦)

Solar-Powered Model Car Camp (*Co-organized with NSTM)

11.07 Sat. 09:00-12:30

南科管理中心
中文 · 一般大眾 · 免費
Southern Taiwan Science Park, Ministry of Science and Technology
Mandarin · Public · Free

南科太陽能模型車親子營透過太陽能模型車製作與科普闖關等親子活動，推廣再生能源教育。



The purpose of the Southern Taiwan Science Park Bureau's Solar-Powered Model Car Parent-Child Camp is to promote renewable energy education. During this camp, children and parents work together to build solar-powered model cars.

高雄市政府環境保護局：「世界地球日」邀你逗陣來守護地球

Environmental Protection Bureau Kaohsiung City Government : Earth day Let's protect our Earth

11.07 Sat. - 11.08 Sun. 14:30-17:30

國立科學工藝博物館 北館 戶外廣場
中文 · 一般大眾 · 免費
Outdoor plaza, North Complex,
National Science and Technology Museum
Mandarin · Public · Free

優質的環境教育計劃，有助於培養具有環境素養的公民，可以在我們的全球環境競爭中做出明智的選擇，並行使社會大眾的權利和責任。



Quality environmental education helps to develop an environmentally literate citizenry that can compete in the global environment. They have the skills, knowledge, and inclinations to make well-informed choices. Moreover, they exercise their rights and responsibilities as members of society.

佛光山雲水書車

Fo Guang Shan Water and Cloud Mobile Library

10.31 Sat. - 11.15 Sun. 09:00-16:00

國立科學工藝博物館 北館 B1F 劇場廣場
中文 · 一般大眾 · 免費
Theater Plaza, B1F North Complex,
National Science and Technology Museum
Mandarin · Public · Free

「雲水書坊 - 行動圖書館」的構想來自佛光山開山星雲大師，希望透過雲水書車將圖書送到偏遠的學校與社區，藉由閱讀提升生活品質及改變生命。為帶動閱讀風氣，佛光山更自2013年起每年舉辦南臺灣規模最大的國際書展暨蔬食博覽會，甚至為偏鄉學校舉辦聯合畢業典禮。藉機動與便利性十足的行動圖書館，讓滿載著圖書和無限的希望，如行雲流水、如飛鳥展翅，將書香傳送到每個需要的地方。



"The Fo Guang Shan Water and Cloud Mobile Library" was initiated by Venerable Master Hsing Yun to make books accessible to remote schools and communities. Since 2013, Fo Guang Shan has held the International Book Fair and Vegetarian Expo and joint graduation ceremonies for schools in remote areas. They deliver books and hope to people and places in need.

幼兒科學嘉年華

Science Fun Fair for Preschool Children

11.03 Tue. - 06 Fri. / 11.10 Tue. - 13 Fri.
09:00-12:00; 13:30-16:30

國立科學工藝博物館 北館 1F大廳、B1F 走道區
中文 · 限提前預約之幼兒園所
1F Hall, and B1F Walkway Area, North Complex,
National Science and Technology Museum
Mandarin · Prior reservation of kindergarten only

針對幼兒課程綱要設計適合幼兒之科學闖關活動，並結合本館現有之特展及大銀幕電影院，規劃適合幼兒園來館活動之系列活動。包含幼童慶科學、科普說故事、多元文化新體驗、科工典藏虛擬實境體驗、兒童科學園、玩雪趣套票、放風趣套票、看3D套票、科學闖關等活動。



Providing a series of on-site science activities suitable for preschool children by combining our existing special exhibitions and 3D Theater. Including Joyful Dance at NSTM, Science Popular Storytelling, Multicultural New Experience, Augmented Reality Experience with Special Collection, Children's Science Park, Snow Fun Packages, Kite Special Exhibition Packages, 3D Theater Packages, and Science Challenges.

與海共探 - 海洋探究手冊

Inquiry with the Ocean - Ocean Exploration Journal

10.17 Sat. - 10.18 Sun.
10.24 Sat. - 10.25 Sun.
10.31 Sat. - 11.01 Sun. 09:00-12:00
11.07 Sat. - 11.08 Sun.
11.10 Tue.

國立海洋生物博物館 展場
Exhibition Hall,
National Museum of Marine Biology and Aquarium
中文或英文 · 限高中生憑學生證預約索取 · 免費 (預約制, 每週限量)
Mandarin/English · Restricted to high school students by appointment with student ID · Free (Weekly limit)

國立海洋生物博物館具有多樣的海洋資源，長期以來以教育為核心出發，讓展館不再是展示，而是充滿生命的教學場所，可以讓所有進館的人們學習到豐沛的海洋知識，本次配合新課綱之「探究精神」為核心概念，製作出中學程度的探究手冊，除可配合展場進行探究活動外，更可用於建立與記錄屬於個人的學習歷程檔案，讓參與者寓教於樂。



Based on the "inquiry and practice spirit" in the new 12-Year Basic Education Curricula, the ocean exploration binder is designed for high school students to not only explore the exhibits but build up personal learning file.

跟著海洋去旅行

Traveling with the Ocean Educational Program

08.01 Sat. - 11.30 Mon. 09:00-17:00

國立海洋生物博物館
三個展示主題館、館區後場水族實驗中心及標本典藏室
中文 · 弱勢親子家庭、經濟弱勢團體 · 須事先申請，全額補助
Exhibition Hall, Aquarium Experiment Center, and Specimen Collection Chamber, National Museum of Marine Biology and Aquarium
Mandarin · Vulnerable families and economically vulnerable groups · Must apply in advance, full subsidy

將邀請社福單位弱勢族群與原住民親子家庭做深度學習，透過親身體驗海洋生物多樣性與生態保育知識，認識這些珍貴的生態環境外，對海洋保育知識有更進一步的了解。為增進弱勢族群多元化的學習管道，由專業解說員帶領學員深入海生館後場水族實驗中心，聆聽解說員述說海龜的身世，與感受如果凍般的水母及認識珊瑚礁魚類，並在標本室近距離觀察生物，瞭解生物特色等豐富有趣的行程。另為提供弱勢族群多元化的快樂學習管道，將結合動手做及海龜模型生態知識主題，與各式各樣教材教具介紹生物的物種，瞭解海洋生物遭受到的危機，並傳達海洋與人及環境間息息相關之關連性，進而懂得保護海洋生態，並且珍惜海洋資源對人類的重要性，使得博物館的教育活動更為豐富與實際。



Individuals and families served by social welfare organizations are invited to participate in this in-depth learning experience to gain knowledge about marine biodiversity and ecological conservation, especially ocean conservation, and increase their learning opportunities. In the experimental center behind National Museum of Marine Biology and Aquarium, professional guides tell stories about rescued sea turtles and introduce jellyfishes and coral reef fishes. In the specimen room, the characteristics of marine organisms are observed up close. Through hands-on activities and various teaching aids, participants are introduced to marine species and the crisis they are facing, as well as the connections among the oceans, people, and the environment to encourage protection of marine environments and emphasize the importance of cherishing the ocean.



科學市集 Science Bazaar

科學市集

Science Bazaar

10.31 Sat. / 11.01 Sun. / 11.14 Sat. / 11.15 Sun.
10:00-17:00

臺北科學藝術園區、國立臺灣科學教育館全場域
中文 · 一般大眾 · 免費

Taipei Science & Art Park, and National Taiwan Science
Education Center

Mandarin · Public · Free

結合多元的科學議題，包含環境意識、永續發展、MAKER、AI科技、STEAM等等，以「好奇心」為宗旨，用最娛樂的方式來使人親近科學，喚起人們對於科學的熱情與興趣，並藉由分享、交流觸碰科學，在參與體驗中產生探索未知、啟發科學的好奇心！

以「好奇心」為主軸，科學市集分為四大面向：

- (1) 科學研究-專業探索未知的好奇心
- (2) 科學研究-永續議題探究的好奇心
- (3) 科學教育-啟發科學教育的好奇心
- (4) 科學教育-關懷環境教育的好奇心

宜蘭縣戶外教育博覽會暨臺灣科學節 (*與海科館合辦)

From Outdoor Learning to SDGs and Taiwan Science Festival (*Co-organized with NMMST)

10.31 Sat. 10:00-15:00

宜蘭縣羅東林業文化園區
中文 · 一般大眾 · 免費

Luodong Forestry Cultural Park, Yilan County

Mandarin · Public · Free

活動含靜態展示及動態體驗活動，透過戶外教育場域及課程模組的介紹、環境議題的探究、科學知識的學習，促進學習者戶外探索、創意發想、系統思考、解決問題，並瞭解科學原理於生活實際面向之體現，認識並回應永續發展目標之實踐。



The purpose of the Science Bazaar is to spark curiosity. It combines diverse scientific topics, including environmental awareness, sustainable development, MAKER, AI technology, and STEAM. Entertaining methods are used to bring people close to and to arouse their passion for and interest in science. In addition, curiosity and a thirst for discovering the unknown are encouraged through sharing activities and interacting with science.

The science bazaar is divided into four major aspects:

- (1) Curiosity about the unknown
- (2) Curiosity about sustainability issues
- (3) Curiosity about science education
- (4) Curiosity about environmental education



The Festival includes static display and dynamic experience activities. Through the introduction of outdoor education fields and course modules, the exploration of environmental issues, and the learning of scientific knowledge, we hope to promote participants' outdoor exploration, creative thinking, systematic thinking, problem solving, and understanding of how science principles are reflected in the practical aspects of life. In addition, we hope to help participants recognize and respond to the practice of the Sustainable Development Goals (SDGs).

海洋科學市集 Marine Science Fair

10.31 Sat. - 11.15 Sun. 09:00-17:00

國立海洋科技博物館 主題館
中文 · 一般大眾 · 免費 (須購買展示場門票入場)
Main Exhibition Building,
National Museum of Marine Science and Technology
Mandarin · Public · Free (Admission ticket is required)



The Marine Science Fair provides interesting activities regarding concepts for protecting the oceans.

以海洋為主題，設置海洋科學體驗活動，以寓教於樂的方式，將保護海洋的觀念傳遞給參與的民眾。同時邀請基隆市海洋教育推廣成果到館展示。

科學教育嘉年華會 (*與海科館合辦) Science Education Fair (*Co-organized with NMMST)

11.13 Fri. - 11.14 Sat. 10:00-16:00

新北市立新莊體育館
中文 · 一般大眾 · 免費
New Taipei Xinzhuang Gymnasium
Mandarin · Public · Free



New taipei city science festival is the biggest celebration of science education. It is full of interesting and exciting events and activities integrating the ideas of STEAM for children to experience, enjoy and explore the power of science.

新北最大的科學教育盛會將以STEAM整合式學習為主軸，展現新北市科學教育推動成果，讓學生挑戰跨域科學創意攤位。藉由科學趣味遊戲等多元形式，讓孩子們從中學到應用在日常生活中的科學知識！

「多元文化與族群教育」東南亞市集 Educational Program on Multiculturalism and Ethnic Groups

10.31 Sat. 09:30-11:30

國立科學工藝博物館 北館 B1F 夢想號
中文 · 建議 3 歲以上觀眾參加 · 免費
Fantasy, B1F North Complex,
National Science and Technology Museum
Mandarin · Suitable for age 3+ · Free



Through various activities, children obtain multicultural knowledge.

透過現場活動培育孩童多元文化的相關知識與體驗。

科普市集 Popular Science Fair

10.31 Sat. - 11.01 Sun. 09:30-16:30

國立科學工藝博物館 北館 1F 大廳
中文 · 一般大眾 · 免費
Hall, 1F North Complex,
National Science and Technology Museum
Mandarin · Public · Free



科普市集設攤展出各項科學及科技互動體驗活動。科普活動讓參與者透過動手操作，嘗試並探索科學和技術的基本原理，進而了解其在日常生活中的應用。

The Popular Science Fair provides various interactive science and technology-related experiences. Through hands-on activities participants explore the basic principles of science and technology, which can be applied to everyday life.

2020國際書展暨蔬食博覽會 (*與科工館合辦) 2020 Fo Guang Shan International Book Fair and Vegetarian Expo (*Co-organized with NSTM)

11.07 Sat. - 11.15 Sun. 09:00-18:00

佛光山佛陀紀念館
中文 · 一般大眾 · 免費
Fo Guang Shan Buddha Museum
Mandarin · Public · Free



「2020 國際書展暨蔬食博覽會 - 我的地球·我來關懷」，以環境教育、愛地球為主軸，推出國際性、教育性、藝術性、科技性的多元文化，延伸展演、名家講座、社團才藝、趣味集印、養生蔬食等系列活動。活動特色·亮點：

- (1) 食育國際繪本主題展 - 推出國內外食育繪本、雲水書車推動繪本說故事。
- (2) 喚醒防災DNA特展：以防災先進技術，結合三好四給推動防災教育。
- (3) 匠心具足 - 親近臺灣傳統工藝特展：40 位國寶工藝大師作品首度共同展示。
- (4) 佛教海線絲綢之路 - 新媒體藝術特展：嶄新媒體科技重現海上絲路。
- (5) 千人茶禪：以千人茶席，從品茶禪坐，體驗身心靈修持。
- (6) 百家書展·百家蔬食：實踐讀好書·食好蔬·愛地球，推出食農健康能量，讓大眾悅讀悅健康。

The International Book Fair and Vegetarian Expo - My Earth, My Concern focuses on environmental education and protecting the earth. A series of international, educational, artistic, and technological activities includes lectures, performances, and stamp rally.

- Highlights:
- (1) Food education picture book exhibition
 - (2) Technology and disaster preparedness exhibition
 - (3) Presentations of devoted masters
 - (4) Buddhist ocean journeys exhibition
 - (5) Mass tea ceremony
 - (6) Good books, good food

與海共遊科學市集

Ocean Fair Science Bazaar

10.13 #Tue. - 10.15 Thu. 國立臺東大學 NTTU
 10.20 #Tue. - 10.22 Thu. 國立東華大學 NDHU
 10.31 Sat. - 11.01 Sun. 國立海洋生物博物館 NMMBA
 11.03 #Tue. - 11.04 Wed. 美和科技大學 Meiho University
 11.11 #Wed. - 11.13 Fri. 大仁科技大學 Tajen University
 11.15 Sun. 屏東火車站 Pingtung Station

#大學場次第一天為 12:00-16:00
 其餘場次均為 10:00-16:00

搭配海洋Longstay的到校活動，海生館在花東與屏東地區展開科學市集的擺攤。攤位內容包含神奇的透明魚與生物標本展示，還有好玩的科學實作體驗，讓參與者從「做中學」裡認識海洋的奧秘。



中文為主，部分場次提供現場口譯。一般大眾·免費(海生館場次須購買展示場門票)

Mandarin · Public · Free (Admission ticket is required)

The Ocean Fair is held in Hualien, Taitung and Pingtung. Exhibits include delicate transparent fish and marine specimens. In addition, fun science experiments enable participants to learn about the mysteries of the ocean.

曬科學

Science Bazaar

10.31 Sat. / 11.01 Sun. / 11.07 Sat. / 11.08 Sun.
 09:00-17:00

國立自然科學博物館 西屯路廣場至植物園走道

中文·一般大眾·免費

Walkway from Xitun Road Square to Botanical Garden,
 National Museum of Natural Science

Mandarin · Public · Free



「曬科學」特別邀請許多公、民營科教研究推廣單位及臺灣中部六縣市學校，再結合 108 課綱「探究與實作」素養精神下，設置科學操作體驗攤位，藉由歡樂有趣的方式向民眾傳遞科普知識，並宣傳環境保護的重要性。

攤位包含學校教學特色、科展優勝作品、科普常識觀念和環境永續議題等面向，每個攤位各有不同的特別內容，透過標本觀察、動手做、科學表達及實境解謎的多元活動形式和體驗過程，民眾將從認識瞭解科學原理，進階適切享用科學成果。歡迎大、小朋友一起來「曬科學」輕鬆學知識，快樂玩科學！

For the Science Bazaar, public and private science education and research institutions and schools from six counties and cities in central Taiwan have been invited to set up booths that incorporate the spirit of scientific inquiry and practice. The purpose is to pass on popular science knowledge and promote the importance of environmental protection in fun and interesting ways. Science Bazaar booths cover topics such as educational features of schools, science fair winning works, popular science concepts, and sustainability. Each booth is unique. Through multiple types of experiences, such as specimen observation, hands-on activities, scientific expression, and practical solutions, visitors understand scientific principles and applications of scientific achievements. Everyone is welcome to the Science Bazaar to enjoy learning in a relaxed setting and to have fun with science!

探索科博尋寶趣 - 實境解謎遊戲

CoboFun

全年(週二至週日) All year (Tue. - Sun.)

09:00-17:00

國立自然科學博物館 常設展廳

中文·建議 10 歲以上觀眾參加·免費(須購買展示場門票入場)

Exhibition Hall, National Museum of Natural Science

Mandarin · Suitable for age 10+ · Free (Admission ticket is required)



探索科博尋寶趣透過實境解謎遊戲，鼓勵觀眾主動探索展場，透過解謎任務引導觀眾深度觀察展品與創意思考，並結合虛擬實境(VR)、擴增實境(AR)、混合實境(MR)及協力解謎等創新互動體驗，增加參訪的趣味性，讓觀眾在遊戲過程中，自然而然培養核心素養的知識、態度與技能。

* 需自備載具下載APP或前往本館數位典藏與學習中心租借載具體驗。

CoboFun engages visitors actively in exploring exhibitions during their gaming process of real-world adventure games. Various game quests are designed to scaffold the in-depth observations and creative thinking for visitors. By the applications of innovative interactive technologies included virtual reality, augmented reality, mixed-reality, and synchronous collaborative learning mode, it is more fun for competency-based learning in museums.

* Downloading the App from Google Play or App Store; Renting a CoboFun at the Digital Achieves and e-learning Center.

iFun 科普創客嘉年華

iFun Science Maker Carnival

09月 September - 11月 November

活動場次依照科博館官網公布為主

國立自然科學博物館 陽光過道 南側

中文·建議 10 歲以上觀眾參加·免費

South Side of Sunshine Aisle,
 National Museum of Natural Science

Mandarin · Suitable for age 10+ · Free



你知道科技對我們的生活帶來什麼樣的改變嗎？博物館、學校、家庭結合了智慧科技，又出現了什麼樣的創新科學學習模式呢？歡迎您一同來參與、體驗，透過互動展示、闖關遊戲、動手實作、大師分享等精采活動，帶領民眾親身體驗「智慧博物館」終身樂學與樂活的便利與樂趣。

Do you know what changes technology has brought to our lives? Museums, schools, and homes have incorporated smart technologies. What innovative science learning models have emerged? Through interactive displays and games and sharing of experts, the public can experience the convenience and fun of lifelong learning in a "Smart Museum".

STEAM 創客工作坊 STEAM Workshop

10.16 Fri. - 10.18 Sun. / 10.30 Fri. - 11.01 Sun.

11.06 Fri. - 11.08 Sun. / 11.13 Fri. - 11.15 Sun.

13:30-16:30

報名網站：<https://reurl.cc/gmznnL>



科普基地 SciBase

【交通部中央氣象局】

Central Weather Bureau, MOTC

中央氣象局為推動氣象科普及應用，於臺北局本部建置多元的展示場，以實物展示、影音與互動科技，或透由地球展示系統球形顯示幕、環形劇場、VR等沉浸式多媒體影音體驗，呈現氣象、地震、海象及天文等地球科學相關科普常識；此外，各級學校、機關團體及民眾也可透過網路預約申請參觀，並有專人導覽解說，近距離認識氣象局及各種有趣的氣象科普。中央氣象局於臺南設有臺灣南區氣象中心、彰化設有田中氣象站，亦提供氣象科普展場，歡迎民眾前往參觀。

To promote popular science and application of meteorology, the Central Weather Bureau (CWB) headquarters in Taipei provides information regarding meteorology, earthquake, marine meteorology, astronomy, etc., in a variety of exhibitions with audio-visual and interactive technology including ultra-wide arc projection, amphitheater, VR experience, and an spherical display system called "Science On the Sphere". Guided group tours are also available and can be reserved online, to give the general public a close look at, and hopefully a better understanding of, the CWB in an interesting and informative way. Other than the CWB headquarters, the Southern Region Weather Center in Tainan and the Tianzhong Weather Station in Changhua also have popular science exhibitions, which the public is welcome to visit.

【財團法人國家衛生研究院】

National Health Research Institutes



國家衛生研究院是「任務導向」專責醫藥衛生研究機構，針對臺灣重大衛生健康問題，整合動員研究專業協助政府，並為政府智庫，以科學研究提供政策建言，共同保衛全民健康。設有8個研究所、3個研究中心及論壇，研究涵蓋醫學、藥物、公衛流病、生醫工程、疫苗研發等領域，及1座cGMP生物製劑廠，肩負疫苗開發與銜接產業任務。

The National Health Research Institutes (NHRI) is a "mission-oriented" research institution dedicated to the enhancement of medical research and the general well-being of the people in Taiwan. NHRI currently houses eight institutes, three centers, the Forum, and the Bioproduction Plants (cGMP facility), integrating the expertise of each unit to conduct translational research to solve major disease problems in Taiwan. It also serves as a think tank for the government, providing timely health-policy recommendations; it advances and coordinates biotechnology research between the public and private sectors; and it enhances the quality of biomedical research and medical care to achieve the ultimate goal of establishing NHRI as a biomedical hub in Taiwan and a center of excellence in Asia.



【財團法人國家實驗研究院國家太空中心】
National Space Organization, NARLabs



國家太空中心成立於1991年，是我國唯一負責太空科技政策執行及研發的機構。國家太空中心擁有研發實驗室、衛星整測廠房、衛星操控中心與影像處理中心，可研發製造衛星的元件、進行衛星組裝並模擬火箭與太空環境的測試、在衛星發射後進行控制以及處理、分析衛星所拍攝到的影像資料。對人造衛星充滿好奇想要一窺人造衛星的祕密嗎？歡迎蒞臨臺灣的衛星夢工場 - 國家太空中心。

National Space Organization (NSPO) is the only space agency in Taiwan. The agency has the characteristics of both the national space science and technology policy implementation and the space science and technology development, with the implementation of satellite programs as the main axis, to strengthen the promotion of academic research, establish Taiwan's self-reliant space science and technology, conduct cutting-edge space scientific research and promote satellite applications as the mission goals.

**【行政院農業委員會
特有生物研究保育中心】**
Endemic Species Research Institute

本中心成立於1992年7月1日，並於1999年7月1日起配合臺灣省政府功能業務與組織調整作業改隸行政院農業委員會。本中心之成立係為呼應全球對生態保育的日益重視，提升我國對本土生態的瞭解，自成立至今始終為臺灣唯一專職於本土特稀有動植物、生態系調查、研究、保育及推廣之政府單位。

Originally known as the Taiwan Endemic Species Research Institute, ESRI was established on July 1, 1992 under the Department of Agriculture and Forestry of the Taiwan Provincial Government. After the downsizing of the Taiwan Provincial Government, the Institute came under the jurisdiction of the Council of Agriculture (COA) of the Executive Yuan on July 1, 1999 and changed its name to the Endemic Species Research Institute, COA, Executive Yuan. Its primary mission as an experimental research organization is to undertake survey and research on Taiwan's rare and endemic wild animals, plants, habitats and ecosystems, and to promote ecological education.



【財團法人國家實驗研究院國家地震工程研究中心】
National Center for Research on Earthquake Engineering, NARLabs

臺灣位於環太平洋地震帶，為減少地震的危
害，國震中心配合震前準備、震時應變、震
後復建之需要，發展「結構耐震實驗及數值
模擬」、「結構耐震設計及評估補強」、「
地震災損評估」三大核心技術，運用大型實
驗設施、實驗技術及地震資料庫之優勢，結
合國內產官學研，強化國際合作，逐步將臺
灣打造成耐震永續家園。

Taiwan is in a seismically active zone, on the Pacific Ring of Fire, and at the western edge of the Philippine Sea Plate. To meet the need for pre-earthquake preparedness, emergency response and post-earthquake restoration, National Center for Research on Earthquake Engineering (NCREE) develops the three main core techniques: "Earthquake Resistant Structural Test and Numerical Simulation", "Seismic Design and Retrofit Evaluation" and "Rapid Evaluation of Structural Damage Status." NCREE uses the advantages of giant experimental facilities, experimental technology and earthquake database to connect with domestic industry and academy, and also enhance the international cooperation for building Taiwan a sustainable and seismic-safe homeland.



【行政院農業委員會苗栗區農業改良場】
Miaoli District Agricultural Research and Extension Station,
Council of Agriculture, Executive Yuan

苗栗區農業改良場業務為掌理蠶業、蜂
業、生物防治相關之全國性業務與苗栗
地區農作物改良及農業推廣業務等，同
時經營「臺灣蠶蜂昆蟲教育園區」，提
供環境教育相關科普活動。以建構苗栗
健康農業、活化蠶業、安全蜂業、普及
生物防治及推動環境教育為機關目標，
持以「臺灣農業生態資源永續利用的守
護者」為機關願景。

MDARES takes charge of national research on sericulture, apiculture and biological control, also conducts crop improvement, plant protection and agricultural extension missions in the Miaoli area. Additionally, we managed the Taiwan Silkworm, and Honeybee Insect Education Park to provide the environmental education experience courses. The station has formulated five strategic goals: construct healthy agriculture in Miaoli, activate sericulture, safe apiculture, popularize biological control, and promote environmental education to be a guardian for Taiwan's sustainable, ecological and agricultural resources.



【行政院農業委員會林務局東勢林區管理處】
Dongshih Forest District Office, Forestry Bureau
Council of Agriculture, Executive Yuan



本處隸屬行政院農業委員會林務局，轄管中臺灣林班地面積計有138,725.64公頃，行政區域屬臺中市、苗栗縣泰安鄉、宜蘭縣大同鄉、南投縣仁愛鄉。主要業務包含保護與永續利用轄內豐富的林業資源、造林撫育、治山防洪、動植物保育工作、森林育樂場域之經營管理、林業與保育知識之教育及推廣。轄管的合歡山、武陵、大雪山、八仙山四個國家森林遊樂區及東勢林業文化園區，均為本處辦理各項森林育樂活動、體驗森林生態之美及環境教育推廣之場域。

Dongshih Forest District Office is one of the 8 District Offices under the Forestry Bureau and manages 138,725.64 hectares of forest in Taichung City, Tai'an Township in Miaoli County, Datong Township in Yilan County, and Renai Township in Nantou County. Our missions are to sustain the health, diversity, and productivity of the Nation's forests, to protect the forest and wildlifes and to educate people of forestry and conservation knowledge. We have 4 National Forest Recreation area, Hehuanshan, Wuling, Dasyueshan, Basianshan and Dongshih Forestry Culture Park here to offer various relaxing excursions of quality with refreshing forests and many conservation education activities for our citizens to explore.

【國立臺灣大學生物資源暨農學院實驗林管理處】
NTU Experimental Forest

溪頭自然教育園區 Xitou Natural Education Area

溪頭自然教育園區是教學實習及自然教育之重要基地，前人筆路藍縷規劃經營下，區內設有服務中心、紅樓國際會議廳、森林生態展示中心及各項森林遊憩設施。本區早期經營以營林為主，至今以推動教學實習、森林療育、科普教育及環境教育等多目標經營，提供各學校師生寒暑假實習、舉辦生態教育研習外，更是國人遊憩健身的好去處。

The Xitou Nature Education Area is an important base for teaching internship and natural education. Under the forefathers' great hard work in pioneering organization and operation, the area is equipped with service center, international conference room of the Red Building, forest ecological exhibition center, and different forest recreation facilities. Operation of this area that mainly focused on the tract in the early period has turned to the multi-purpose management including promotion of teaching internship, forest therapy, popular science education, and environmental education etc. Not only allow the teachers and students to hold the winter- or summer-internship activities as well as the ecological education workshops in here, but also serve as wonderful places for the public to enjoy their recreation and exercise hours.



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將能源轉換為創造力！綠色思潮，能源轉型，共創臺灣永續未來。台電打造全臺首件綠能場域品牌 - 電幻1號所，將無形電力延伸的概念、知識與美感，透過有形場域 - ENERGYM、POWERLAB、GALLERY 轉換為綠色、智慧、未來的無限可能。ENERGYM 將 ENERGY 能源與 GYM 健身房兩個概念結合，邀請你透過身體調動地球能量，感受風、光、水、海洋、地熱等數十億年來就存在的自然現象，如何透過當代智慧幻化為生活中的電能。由藝術家、設計師、能源教師等跨域組成進駐的POWERLAB，以CO-WORKING的共創工作坊方式，不斷為D/S ONE電幻1號所注入創新電流。D/S ONE GALLERY連結公共空間與不同領域藝術家，穿越界線，打造一條以能源出發的當代藝術廊道。D/S ONE 於2020年1月開館，後獲德國紅點、美國博物館協會繆思獎等多項獎項，並獲媒體譽為全臺最好玩展館，歡迎您來體驗！



Convert energy into creativity! Create sustainable future for Taiwan with green trends and energy transformation. Taiwan Power Company built the island's first green energy brand - D/S ONE, through the tangible experiences of ENERGYM, POWERLAB and GALLERY, to transform the concepts, knowledge and aesthetics of intangible power into green smart future. At ENERGYM, you can spin, shake and jump. Everyone is an Energy Maker! Combining the terms ENERGY and GYM, ENERGYM invites you to use your body to harness the Earth's energy and experience how wind, light, water, the ocean, the geothermal and other natural phenomena, which have existed for billions of years, can be transformed into electricity through modern technology. POWERLAB is a collective of artists, designers, energy researchers and other individuals who have innovated through D/S ONE by the co-working space. D/S ONE GALLERY connects public spaces with artists from many fields and create an energy-based gallery of contemporary art.

【大江生醫股份有限公司】
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TCI大江生醫是領先亞洲的保健保養品ODM公司。TCI以誠信 (Trust) 為原則，注重創新 (Creation)，運用智慧 (Intelligence)，長期提供客戶及消費者高效的產品與加值的服務。我們重視消費者需求，經由全球化的銷售網絡與原料探索，以及九大實驗室協力合作，連線自動化工廠精準生產，加入並改善消費者生活。我們還設立了大江學院，以「生物科學」、「人本關懷」及「藝術美學」為三大核心指標，媒合產界與學界，提供更開闊的視野與平臺，讓精心灌溉的種子們，帶著知識的力量與文化的內涵，持續「加入並改善消費者生活」。



As a market-leading ODM company for dietary supplements and skin care products in Asia, TCI, based on its principle of "Trust," emphasis on "Creation," and use of "Intelligence," provides customers and consumers with high-efficacy products and value-adding services. TCI values consumers' needs; through global sales network and raw material exploration, as well as the collaboration of the nine major laboratories, TCI has successfully achieved precision production by automated factories to join and delight consumer's life. TCI has also founded TCI Academy, which, with "Bioscience", "Humanity", and "Art" as its three core values, combines industry and academia to provide not only the employees but also students around Taiwan with a broader horizon and a learning platform, hoping that they can continuously "join and delight consumer's life" with the power of knowledge and culture.

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2020 Taiwan SciFest

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我們衷心感謝各夥伴及單位的參與，使 2020 第一屆臺灣科學節順利舉行。
We would like to thank all partners and units for making 2020 1st Taiwan Science Festival possible.

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