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Welcome to the first newsletter of the U.S.-Chile Council on Science, Technology, and Innovation (STIC)! This unique science diplomacy initiative, launched in March 2018, reflects the outstanding STI partnership between Chile and the United States, one that has advanced the frontiers of scientific knowledge and produced benefits for both countries. STIC is a first-of-its-kind mechanism that convenes stakeholders from government, academia, civil society, the armed forces and the business community with the goal of advancing on collaborative policies and programs that position both countries to excel in the economy of the future. I invite you to review the six proposals contained in the Council's first year report, available at the following link:

<https://cl.usembassy.gov/education-culture/u-s-chile-science-technology-and-innovation-council-stic/>.

Today, more than ever, the Council is committed to promoting U.S.-Chile collaboration in science, technology, and innovation as part of a broader effort to increase economic opportunities and improve quality of life. This periodic newsletter will summarize the Council's activities for those involved in the critical discussions taking place regarding sustainable development in our countries. **STIC Executive Committee**

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CONSEJO
Chile • Estados Unidos
para la ciencia, tecnología e innovación

Embassy Science Fellow Engages on Technology Transfer

Dr. Ghidewon Arefe of the U.S. Department of Defense (DOD) shared lessons from the implementation of a technology transfer framework in the United States with Chilean government, universities, companies, start-up accelerators, and non-profit institutions.



In line with the Council's first-year report, the U.S. Embassy recruited an expert in technology transfer through the State Department Embassy Science Fellow (ESF) program. Dr. Ghidewon Arefe, an AAAS Science and Technology Policy Fellow at DOD, initiated his two-month fellowship with a presentation to the Council on how a technology transfer regulatory framework spurs innovation. Dr. Arefe pointed to the Federal Laboratory Consortium for Technology Transfer (www.federallabs.org) as a U.S. platform that connects entrepreneurs to funding and lab resources.

Dr. Arefe's engagement with Chilean government authorities included meetings with technical leads at the Ministry of Science, Technology, Knowledge and Innovation, the National Economic Development Agency (CORFO), and the Ministry of Foreign Affairs. In these meetings, he explained that from the U.S. perspective technology transfer programs are not measured by the return on investment to the government but by the total value created. Studies reveal that for every US\$1 spent on technology transfer programs, a total of US\$9 in value is generated for the broader economy.

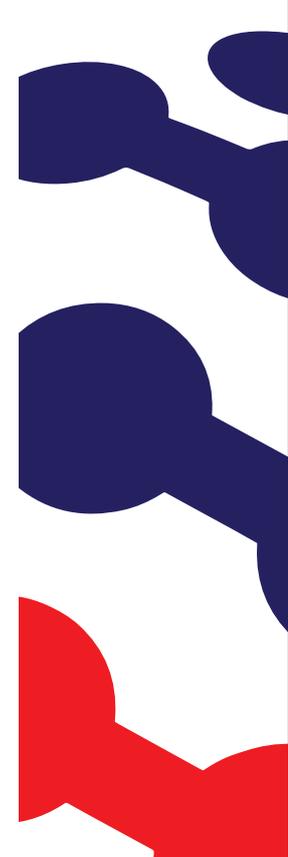
STIC Commits Support for Chile's Science Policy Agenda

The 60+ members of the U.S.-Chile Council on Science, Technology, and Innovation (STIC) committed during a June 12 meeting with Vice Minister Carolina Torrealba to support the agenda of the newly created Ministry of Science, Technology, Knowledge, and Innovation.



Vice Minister Carolina Torrealba thanked STIC members during a June 12 meeting for the Council's first-year report and the six proposals it contained for enhancing capacity in innovation, technology transfer, and education and workforce development. VM Torrealba called for the Council and the Ministry to "capitalize on a common agenda" and outlined several priorities: 1) STIC support for the Ministry's effort to increase the participation of women and girls in science and technology-related fields; 2) Learning from the U.S. experience promoting technology transfer as driver for economic growth; and 3) Sharing lessons learned related to the role of the defense sector in supporting research and development.

Baxter Hunt, U.S. Embassy Charge d'Affaires, congratulated Torrealba and reaffirmed science cooperation as a pillar of the U.S.-Chile relationship. He committed support for the Ministry's agenda on behalf of STIC and described several initiatives, including the Embassy Science Fellow program to, an Embassy-funded project to accelerate the application of U.S.-based education models for science, technology, engineering, arts, and mathematics (STEAM), and a program called U.S.-Chile Collaboratory aimed at enhancing the innovation ecosystem.





DOE U/S Paul Dabbar,
MFA U/S Carolina Valdivia,
NSF Director France Cordova,
SUBTEL U/S Pamela Gidi,
Albemarle Country Manager Ellen
Lenny-Pessagno,
Chargé d'Affaires Baxter Hunt

National Science Foundation (NSF) Director Visit to Chile Strengthens Bilateral Science Cooperation

Chile and the United States enjoy mutually beneficial cooperation on science, technology, and innovation. This was one of the key messages delivered by NSF Director Dr. France Cordova during her October 16-20 visit to Chile, which included meetings with Chilean President Sebastián Piñera, Science Minister Dr. Andrés Couve, Undersecretary of Foreign Affairs Carolina Valdivia, National Commission for Science and Technology (CONICYT) President Marianne Krause, and the members of the U.S.-Chile Council on Science, Technology, and Innovation.

The highlight of Dr. Cordova's visit was the signing of a Joint Declaration of Collaboration and Cooperation between the NSF and the Ministry of Science, Technology, Knowledge, and Innovation to strengthen cooperation in facilities for scientific research and

During her October 16-20 visit to Chile, NSF Director Dr. France Cordova and Science Minister Andrés Couve signed a Joint Declaration of Collaboration and Cooperation to enhance information sharing on facilities for scientific research and talent development.

talent development. The NSF has a long history of supporting Chile's efforts to build world class science facilities and become a global science leader. At the signing ceremony, Dr. Cordova emphasized the importance of Chile's unique territorial features that facilitate world class scientific research, adding that the agreement "continues a tradition that inspires tremendous results in fields ranging from astronomy to oceanography and polar science."



STIC Convenes Panel Discussion on Role of Defense Sector in Promoting R&D

The Council convened on August 19 a panel discussion entitled "The Armed Forces as a Relevant Actor in the Development of Science and Technology" to share experiences regarding how the defense sector can help drive innovation-based economic growth.

Science Minister
Andrés Couvé,
Defense U/S
Christian De la Maza,
Real Admiral
Ramiro Navajas,
ONRG Technical Director
Dr. Patricia Gruber

In response to a priority identified by the Ministry of Science, Technology, Knowledge, and Innovation, the Council convened on August 19, a high-level panel discussion entitled "The Armed Forces as a Relevant Actor in the Development of Science and Technology". The goal of the panel discussion was to facilitate an exchange of lessons learned related to the role of the defense sector in promoting science, technology, and innovation.

In opening remarks, Charge d'Affaires Baxter Hunt highlighted that in the U.S. experience, the defense sector is key catalyst for technology transfer that has led to the creation of new industries and boosted economic

growth. Presenting on behalf of the United States, Dr. Patricia Gruber, Technical Director of the Office of Naval Research Global (ONRG) provided specific examples of how the Department of Defense invests in innovation, including through its contribution to research laboratories where new technologies are developed.

Science Minister Dr. Andrés Couvé presented the Ministry's vision for cooperation with the defense sector and pointed to cooperation on science infrastructure such as the research vessel Cabo de Hornos as a key area for cooperation with the defense sector. Vice Admiral (R) Cristián de la Maza, Undersecretary of

Defense, then contributed his views on the contribution of the defense sector to the national system of science, technology, knowledge and innovation.

One of the concrete outcomes of this event was DIPRIDA's decision to host, with support from ONRG, a "Hacking for Defense" competition open to academia, innovators, and start-ups, among others. During this event, which will take place in March 2020, participants will work together in teams to propose solutions to a technology gap facing the Navy, and to invent a prototype. The winning team will be announced during Exponaval 2020 and will receive a monetary prize to support development of the new technology.