

Alianza Inter-Universitaria Sonora-Arizona

Intercambio de Conocimiento en la Megarregión Sonora-Arizona

PROMOVER EL AVANCE DE LA CIENCIA, LA EDUCACIÓN Y LA INNOVACIÓN EN LA REGIÓN TRANSFRONTERIZA COMPARTIDA A TRAVÉS DEL FORTALECIMIENTO DE LAS VÍNCULOS ENTRE INSTITUCIONES DE INVESTIGACIÓN Y EDUCACIÓN SUPERIOR DE SONORA Y ARIZONA



Metas e impacto de la Alianza

La Alianza esta ayudando a que las instituciones científicas y de educación superior de Sonora y Arizona alineen sus prioridades de investigación y enseñanza (y sumen recursos) conforme a principios de inclusión, diversidad, sustentabilidad, internacionalización, innovación, e impacto transfronterizo.

- In April of 2019, the leaders of ASU, UofA, NAU, CIAD, UNISON, COLEF, ITSON and COLSON signed a joint statement in Tempe pledging support for cross-border exchange and collaboration in all fields of sciences and the humanities.
- Mexican institutions pooled their own resources to fund projects led by Mexican researchers working collaboratively with ASU, UofA and NAU faculty.

- ASU and the UofA created parallel seed grant programs to support their faculty's collaborative work with Sonoran researchers and graduate students.
- These actions foster research capacity and exchange that are critical to sustain long term scientific and innovation efforts in the transborder region.

Arizona-Sonora Inter-University Alliance

An innovative and unique transborder initiative, this university-led partnership is creating critically needed infrastructure for research, education and innovation transcending political, institutional, and temporal borders.



Arizona-Sonora Interuniversity Alliance

JOINT STATEMENT

We, as leaders of public higher education institutions in Arizona and Sonora, wish to reaffirm our pledge to cross-border academic cooperation and exchange as a way to advance science, education, and innovation in our shared region.

Our institutions are stronger when they address issues collaboratively; when they exchange ideas, faculty and students; and when they use dialogue to nurture new perspectives and new knowledge. Cooperation is also a foundation of innovation and excellence. It is by combining our intellectual capacity and resources that we can best foster research and education of public value which enrich people's lives and advance the economic, social, and cultural development of the communities we serve.

The states of Arizona and Sonora constitute a regional space of enduring cross-border collaboration grounded on historical, cultural, environmental, and economic ties supporting a vision of integration and co-development.

The Arizona-Sonora Interuniversity Alliance is our way to contribute more effectively and efficiently to the efforts of governments, businesses, and citizens committed to the advancement of the region. Through this partnership our institutions will work together to ensure that the enduring relationship and aspirations of development shared by Arizona and Sonora blossom for the benefit of the people on both sides of the international border.



Alianza Interuniversitaria Sonora-Arizona

DECLARACIÓN CONJUNTA

Nosotros, líderes de instituciones públicas de educación superior de Sonora y Arizona, deseamos reafirmar nuestro compromiso con la cooperación y el intercambio académico transfronterizo como forma de promover la ciencia, la educación y la innovación en la región que compartimos.

Nuestras instituciones son más fuertes cuando colaboran; cuando intercambian ideas, profesores y estudiantes; y cuando usan el diálogo para estimular nuevas perspectivas y conocimientos. La colaboración es también piedra angular de la innovación y la excelencia. Es combinando nuestras capacidades y recursos intelectuales como podemos promover mejor la investigación y la educación con valor social que enriquezca la vida de las personas y eleve el nivel económico, social, y cultural de las comunidades a las que servimos.

Sonora y Arizona forman un espacio regional con una tradición de colaboración transfronteriza arraigada en lazos históricos, culturales, ambientales y económicos que nutren una visión de integración y co-desarrollo.

La Alianza Interuniversitaria Sonora-Arizona es nuestra forma de contribuir más efectivamente y eficientemente a los esfuerzos de gobiernos, empresas, y ciudadanos comprometidos con el avance de la región. Mediante esta alianza nuestras instituciones colaborarán para asegurar que las relaciones duraderas y las aspiraciones de desarrollo compartidas por Sonora y Arizona fructifiquen para el beneficio de los pueblos de ambos lados de la frontera internacional.

Signed in Tempe, Arizona on the 5th of April, 2019 • Firmado en Tempe, Arizona el 5 de abril de 2019

Dr. Rita Cheng
President
Northern Arizona University

Dr. Michael M. Crow
President
Arizona State University

Dr. Alberto Hernández Hernández
Presidente
El Colegio de la Frontera Norte

Dr. Juan Poom
Rector
El Colegio de Sonora

Dr. Robert C. Robbins
President
University of Arizona

Dr. Javier José Vales García
Rector
Instituto Tecnológico de Sonora

Dr. Enrique H. Velázquez Contreras
Rector
Universidad de Sonora

Dr. Pablo Wong-González
Director General
Centro de Investigación en Alimentación y Desarrollo

Alliance Supported Projects

- The Alliance is contributing to the scientific knowledge of the challenges and solutions to the problems faced by people, economies, and ecologies of the Arizona-Sonora megaregion.
- Through binational research groups, the Alliance is fomenting an interdisciplinary, comprehensive and place-based understanding of the transborder region.

- More than thirty binational research groups exploring topics such as water planning and policy in desert cities, nutrition and physical activity, the wellbeing of migrant children, and solar energy production
- Sixteen ASU led projects focused on the border received seed grant funding through the Program for Transborder Communities

- More than 100 Mexican scholars engaging in joint research efforts involving ASU, UArizona and NAU faculty and graduate students.
- Over ten workshops and seminars held in Arizona and Sonora
- Multiple research proposals submitted to CONACYT, NSF, NADBank and other external funding agencies.

Proyectos AISA 2019-2020: Arizona

1. *Understanding the social and educational needs of returned migrant children in Nogales, Sonora.* **Flavio Marsiglia** (ASU) with COLEF and UNISON.
2. *The problem of teaching and learning of calculus as a common challenge to transborder regional development: exploring solution alternatives,* **Fabio Milner** (ASU) with UNISON
3. *Esperanza en Accion: Participatory diagnosis of immigrant community needs in Nogales, Sonora,* **Michael Stancliff** (ASU) with UNISON.
4. *Development of strategic plan for the food-energy-water (FEW) nexus in the Sonora-Arizona Mega-Region,* **Enrique Vivoni** (ASU) with ITSON and UNISON
5. *Developing an outreach model for green infrastructure to address flooding and sewage spills in Ambos Nogales,* **Adriana Zuniga Teran** (UArizona), with ASU and COLEF
6. *Development of Functional Polymeric Materials for Environmental and Biomedical Applications,* **Roberto Guzman** (UArizona) with CIAD
7. *Facilitating the Academic Integration of Transnational Students in the Arizona-Sonora Borderlands,* **Carmen King de Ramirez** (UArizona) with UNISON

Proyectos AISA 2019-2020: Sonora

1. *Interdisciplinary, multidimensional and binational analysis of the increase of colon cancer incidence in Sonora and early-age onset in Arizona in connection with reduced consumption of dietary fiber.* **Elizabeth Carvajal (CIAD)** with
2. *Integration of a binational network for the surveillance of bacterial resistance in health facilities in Sonora and Arizona and training of health professionals working on border medical facilities.* **Enrique Bolado (UNISON)** with Uarizona.
3. *Relationship between Young English Language Learners' Backgrounds and their Proficiency in English.* **María Nelly Gutiérrez (UNISON)** with NAU
4. *Integration of a binational research group focused on risk evaluation of exposure of children to arsenic in food and the environment in the Arizona-Sonora region.* **Leticia García Rico (CIAD)** with UofArizona
5. *Evaluation of the implementation of Mantente R.E.A.L., a health promotion and substance abuse prevention program, among middle school students in Hermosillo, Sonora.* **José Guadalupe Rodríguez (UNISON)** with ASU
6. *Eco-hydrological surveillance system for climate change adaptation in semi-arid ecosystems.* **Enrico Arturo Yépez (ITSON)** with ASU
7. *Application of molecular technologies to understand the genetic basis regulating heat stress tolerance in livestock.* **Pablo Luna (ITSON)** with UNISON and UArizona