

Fundación México – Estados Unidos para la Ciencia  
The United States – Mexico Foundation for Science

## Activities Report

2000-2001

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## **WHAT THE FOUNDATION IS**

The United States-Mexico Foundation for Science is a non-governmental organization established in 1992 through a bi-national agreement between the U.S. and Mexico to promote and support collaboration in science and technology between the two countries.

The Foundation has an endowment created by contributions from both federal governments. The income derived from that endowment is used to fund exploratory activities that set up the bases for programs and projects, and to cover core operational expenses.

The charters that govern the Foundation created a Board of Governors as the body that directs and supervises its activities. This Board is made up of eight members from each country that represent the academic community, the business sector and government. All of them are distinguished and recognized leaders in their own field and freely donate their time, knowledge and energy to the organization.

The Foundation's day-to-day activities are carried out by the staff group made up of highly recognized and experienced people and young, bright professionals with great potential in the fields in which the Foundation operates.

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## **WHAT THE FOUNDATION STANDS FOR**

The Foundation's mission is to promote collaboration between the U.S. and Mexico in science and technology that can contribute to the solution of problems of interest to both countries in matters of mutual relevance such as health, development, education and the environment.

In these areas, the Foundation's main objectives are to:

- identify and define opportunities for bi-national cooperation in science and technology;

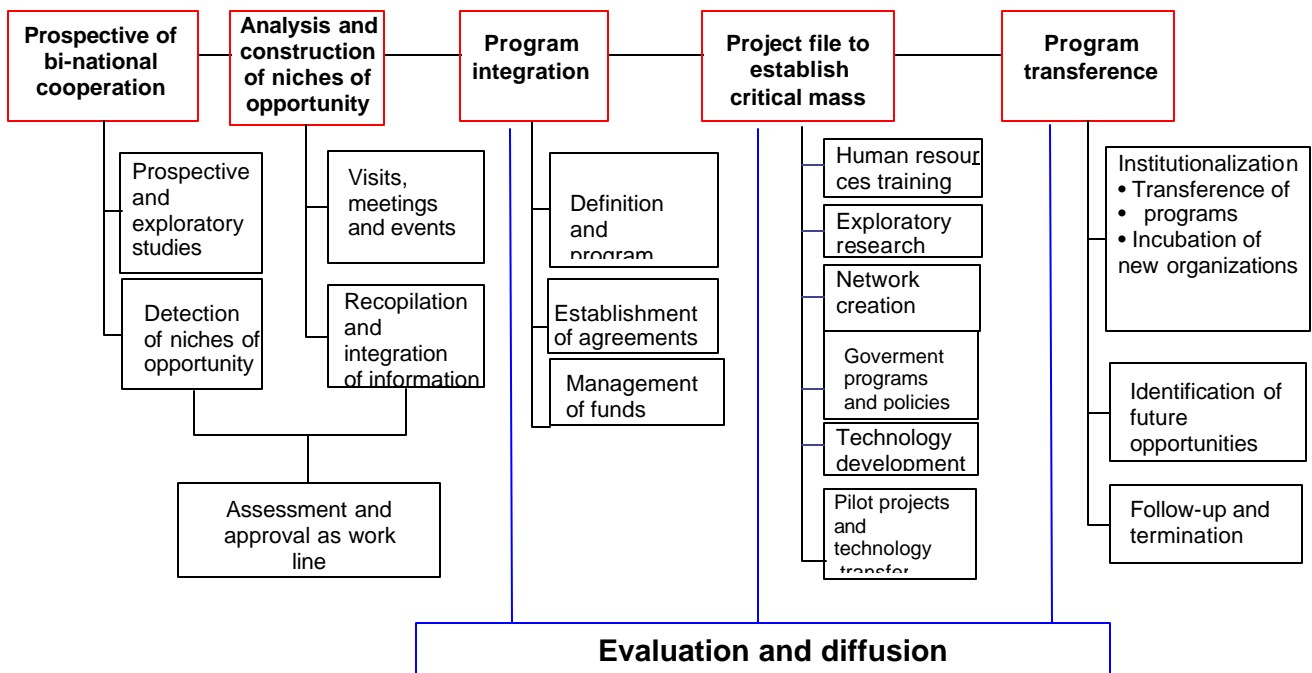
- promote the creation of networks of actors and information;
- support the identification and management of bi-national financial resources that can sustain the development of solutions in the medium and long terms;
- study, facilitate and promote science and technology policy-making, in manners that can enhance and strengthen bi-national cooperation between the U.S. and Mexico;
- root programs and actions firmly in the community and in the institutional network so that the results can have continuity and permanence.

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## HOW THE FOUNDATION WORKS

The Foundation's general methodology is to open opportunities for bi-national collaboration in programmatic areas of interest to both countries, where it is important to create or strengthen capacities in science and technology and where there is a need to build up bi-national synergies. Bi-national collaboration is then consolidated through the establishment of adequate networks and mechanisms involving other actors and institutions both in Mexico and the U.S.

All of the Foundation's programs move along the same stages of the work processes:



- Analysis of bi-national cooperation in the priority area approved by the Board of Governors.
- Analysis and construction of niches of opportunity
- Program development.
- Portfolio of projects to develop the necessary critical mass.
- Transference to an organization that will continue the program.

Thus the Foundation uses its resources -both human and financial- to act as catalyst, networker, facilitator and seed funder of bi-national collaboration in science and technology between the U.S. and Mexico in issues of mutual concern.

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## **STRENGTHS**

The Foundation's work can be performed successfully due to its capacity to establish and use its networks in both countries, which enhances its ability to convene and convoke relevant actors to work jointly in the solution of problems that interest both the U.S. and Mexico. The past experience and the strength of its results have helped it build a solid reputation among the academic, the business and the governmental communities in both countries. Its success in creating new partnerships with institutions, organizations and individuals is a benchmark for other organizations that seek to develop mechanisms for cooperation.

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## **PROGRAMS**

The Foundation has projects in three main programmatic areas: Health and the Environment, Sustainable Industrial Development and Human Resources Development in Science and Technology.

### **Health and the Environment:**

The main programs in this area are: *Water on the Border: Quality, Health and Risk Prevention*. The Foundation has developed several programs geared to strengthening the research and educational capacities of higher education institutions dealing with

water availability, conservation, reuse, quality, emerging health risks, disinfections, and prevention of flooding. One of these programs is designed to provide training, certification and technical assistance to water utilities along the border, as well as to developing tools to facilitate technical evaluations of water treatment plants. It has supported the establishment of programs to control and monitor water discharges to the sewage systems in addition to helping industries and other businesses in the pre-treatment of their discharges. A detailed diagnosis to improve monitoring and control capabilities has been performed in 19 water utilities in border states.

*Environmental Health Network.* The Foundation has promoted the establishment of a bi-national research and education network that involves various higher education and research institutions on both sides of the border that will focus on training human resources at the graduate level, that are able to address the main problems related to the effects of the environment on the health of the population. It is also supporting seed-research projects that are focusing the attention of research institutions of both countries in order to understand and seek solutions to the health problems related to environmental pollution adjacent to the border communities.

*Air Quality in Large Cities.* The Foundation supports research on atmospheric pollution and its health effects, performed by a bi-national research group, led by the Massachusetts Institute of Technology, and made up by a consortium of eight Mexican research groups, which have been working on the issues of management and diffusion of air quality. Jointly with CONACYT, it has supported the Mexican Air Quality Research Network that has been a strong participant in the bi-national initiatives.

*Food Safety.* The Foundation has been working to provide bi-national support for the training of experts and the development of scientific capabilities related to Methods and Procedures in order to improve food safety in small- and micro- food processing companies, as well as to strengthen the research and technological capacities in higher education and research institutions in the detection of pathogens in foodstuffs.

*Migrant Health.* The continuous flow of people between U.S. and Mexico presents a challenge to both countries in terms of health-related issues. The Foundation has been

working together with higher education and research institutions in the border areas, governmental agencies and NGOs involved with these issues, to develop a bi-national research agenda, as well as educational graduate programs related to emergent, infectious and transmissible diseases among migrants.

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**Sustainable Industrial Development** is the second programmatic area. This area is specifically geared to facilitating bi-national collaboration in science and technology focused on the sustainable development of industry, particularly in the border region, and focuses on strengthening broader bi-national collaboration with this objective. The Foundation works to support broad and sustainable economic, environmental and human development, and thus promotes actions and strategies to prevent or solve pollution problems in border industries.

The principal programs in this area are:

*University-Industry Bi-national Collaboration for Pollution Prevention.* The Foundation has been working with the business sector and industrial associations to link them with research and higher education institutions so that together they can find solution to some of the most relevant issues concerning industrial pollution. Some projects supported by the Foundation deal with control and pre-treatment of discharges of industrial residual waters, development of virtual centers for technical assistance in environmental problems, and capacity building through the training of experts in methods for Cleaner Production.

*Cross-border Collaboration for the Promotion of Research Centers and High-tech Firms.* This program is focused on developing strategies that foster technological innovation in border industries, in addition to the industrial application of new technologies through regional, cross-border cooperation. In the last two years these activities have focused on the El Paso-Ciudad Juarez region. The Foundation has supported projects to determine the technological strategies and needs of the maquiladora industry and its suppliers, besides understanding the trends of emerging technologies in the region's industrial

clusters. It has also been supporting the training of human resources in science and technology policies related to regional development.

*Pollution Prevention and Technological Innovation in Micro and Small Firms.* The Foundation has been fostering bi-national collaboration to develop entrepreneurial and technical assistance systems that support micro and small firms along the border area in their efforts to become more competitive through a better use of technology and through the prevention of pollution and compliance with environmental regulations.

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**Human Resources Development in Science and Technology** is the third programmatic area. Given the critical and increasing role of science and technology in sustainable development and economic growth, the Foundation pays great attention to human resources development. Well-trained scientists and engineers are a key factor to improve the quality of bi-national collaboration between the U.S. and Mexico.

*Science in Basic Education.* This is a high priority issue because of the importance of science literacy and scientific thinking skills and attitudes in the population of both countries. There are very significant opportunities for bi-national collaboration in the research and innovation of the science education systems. The United States has been making a very strong effort in this area and Mexican education authorities are very interested in the development of Mexican strategies that properly take the U.S. experience into account. The Foundation has had support from several Foundations and has been facilitating U.S. – Mexico collaboration in this area, working closely with the U.S. National Academy of Sciences and the Mexican Science Academy.

*Academic Exchanges.* Since its creation, the U.S.-Mexico Foundation for Science has supported, in collaboration with the Mexican Academy of Sciences, programs with the purpose of offering young Mexican researchers the opportunity to work in the United States through a summer fellowship, and thus familiarize themselves with advanced research techniques and topics. Another program supports visits by distinguished scientists

from the U.S. to offer courses, seminars and workshops in Mexico. Both these programs strengthen relations of collaboration between Mexican and U.S. scientists and researchers.

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## **MAJOR ACHIEVEMENTS**

In the years covered by this report and in collaboration with U.S., Mexican and bi-national organizations, FUMEC has obtained results that are worth stressing.

- In the program *Water on the Border: Quality, Health and Risk Prevention the Foundations* has made significant contributions:
  - Regional bi-national networks of water utilities, universities and research organizations have been started in Mexican Border States to provide technical support to water utilities. As part of these networks, state systems have been developed for training, certification and technical assistance in water utilities (SCCAT), and especially in its wastewater treatment activities. This system has been implemented in five water utilities in Baja California and seven in Tamaulipas.
  - These efforts have been promoted and backed by a Support Committee, organized on the lines a Foundation initiative, which is formed by the National Commission for Water, the Institute for Water Technologies, CONOCER, CEMCAS, the governments of six border states and the water utilities, the IBWC, BECC and the NADBANK. This mechanism will facilitate the continuity of this program, and has already been important in the identification of financial support for the operation of the (SCCAT) System of Training, Certification and Technical Assistance to Water Utilities in the states of Baja California and Tamaulipas.
  - A detailed diagnosis and plan for action to improve the monitoring and control capabilities of Mexican Border water utilities for waste discharges has been made, with the support of the Border SEP Technological Institutes and in close collaboration with the EPA, IBWC, the Mexican National Commission for Water and other bi-national organizations. Nine



water utilities have been diagnosed: three in Baja California, one in Sonora, two in Coahuila and three in Tamaulipas.

- Methodologies for the Integral Operative Evaluations of Residual Water Treatment Plants and Drinking Water Plants were developed with the participation of Mexican and U.S. universities. These methodologies have been applied in the border water utilities. Three evaluations have been made: two in Mexicali, Baja California and one in Nuevo Laredo, Tamaulipas.
- To strengthen higher education institutions along the border in issues related to water and health, the Foundation supported research projects, workshops and courses on the following topics:
  - Rapid Evaluation Procedures to assess community practices related to water and sanitation.
  - Workshops on strategies to obtain funding for water and health research projects.
  - Support for the development and implementation of techniques to determine and detect the presence of pathogens in water.
  - It supported a research project on Evaluation and Health Risk Management from Exposure to Fluorine and Arsenic in Drinking Water.
  - Water Reuse and its Impact on Health and Treatment of Residual Waters and its Reuse for Agricultural Purposes.
  - It promoted the creation of a Masters Degree Program in Public Health jointly with the National Institute of Public Health.
  - Together with the Pan-American Health Organization, and the Border Pact, the Foundation has supported a project regarding water supply and sanitation sector analysis.
  - The Foundation backed the consolidation of the program Water and Sanitation in Small Communities with the support of the EPA Fund.
  - FUMEC promoted the results of the Alternative Technologies for Water Supply and Sanitation in the Small Communities program in the border region.

- Bases for the establishment of the *Border Higher Education and Research Network for Environmental Health*. In close collaboration with the Mexican General Administration for Environmental Health and the Bi-national Health Commission, including:
  - Hermosillo Conference to promote the establishment of the Network with the participation of more than 70 people from various Mexican and U.S. institutions, such as the University of Arizona, the Universities of Baja California, Chihuahua, Coahuila, Nuevo Leon and Tamaulipas and government agencies such as the U.S. Department of Energy, SEMARNAT and NGOs from both countries.
  - Ciudad Juarez and El Paso Workshops on management of resources with the participation of more than 25 researchers and public health officials from Proyecto del Rio, CIMAV, the University of Chihuahua, and IMSS.
  - Summer workshop on water and environmental health, with more than 35 participants from NGOs from both countries such as Fundación Mascareñas and the Environmental Defense Fund and research and higher education institutions like Texas A&M, UTEP, University of Texas-Houston, University of Coahuila, CIMAV, COLEF, University of Cd. Juarez and state level government agencies such as SSA and Baja California and Tamaulipas' Public Labs.
  
- Expansion of the *Air Quality in Large Cities* bi-national research and studies program:
  - Supported five workshops of the Bi-national Group and seven meetings of the Advisory Council of the Network for Air Quality.
  - Funded 18 research projects with \$1,500,000.00 USD using resources furnished by MIT-CAM.
  - Provided support and coordination for the Mexican Air Quality Research Network that has financed 6 research projects with \$500,000.00 USD.
  - Facilitated the interaction of the Network with the El Paso-Cd. Juarez Bi-national Public Health Network and Joint Advisory Council of the Air Basin and the Network of Toxicologists, Epidemiologists and Medical Doctors of the Coalition Paso del Norte.

- The Foundation is financing new seed research projects in El Paso-Cd. Juarez, such as the Evaluation of Exposure to PM25 Particles in Populations Close to Brick Factories and the Effects of Vehicle Emissions on the Populations of Asthmatic Children.
  - FUMEC supported the organization of 3 seminars on air quality research with the participation of government agencies such as INE, SEMARNAT, Secretary of the Environment-DF, Secretary of Health, National Health Institute and others, as well as researchers from MIT, Harvard School of Public Health, ITESM, UNAM, UAM and others.
- A program on *Food Safety* started with the identification of niches of needs and opportunities:
    - The Foundation has prepared a directory with information on experts in both countries, in addition to a database with the main Mexican research groups and research lines.
    - More than 20 research and higher education institutions have research lines dealing with food safety and there are more than 30 research groups.
    - The Foundation is supporting bi-national workshops to analyze opportunities for collaboration in human resources training, research projects and support to farmers and in food processing industries.
    - The Foundation is promoting and supporting the consolidation of a Network on Food Safety in collaboration with the system of SEP-CONACYT research centers.
  - In the Foundation's program on *Migrant Health*, work has been directed to promoting and supporting the creation of the Network on Health and Migration, and other results:
    - It has identified new research lines as well as bi-national research and education projects.
    - It supported 13 Mexican researchers to participate in the Bi-national Forum organized jointly with the University of California

- It has developed agreements with various organizations such as the Presidential Commission for Migrants, the University of California and National Institute of Public Health.
- In the *Cross-border Collaboration for the Promotion of Research Centers and High-tech Firms* program there have been significant achievements:
  - The Foundation signed a Memorandum of Understanding with Sandia National Labs to promote the creation of a bi-national research center dealing with state-of-the-art technologies.
  - It has opened new channels for collaboration agreements between Sandia Labs and four Mexican research centers and firms.
  - FUMEC supported a group of researchers from three institutions to obtain funding and to develop a project to analyze the maquiladora industry and its technological learning process.
  - The Foundation has worked with three education institutions in the border region to develop training programs for specialized, high-level human resources.
  - FUMEC organized a workshop with 35 participants from the government, the business sector and academics to draft a proposal to contribute to the technological development of the El Paso-Juarez region.
  - Sandia Labs, FUMEC and UTEP organized a workshop on Micro-electromechanical Systems with 40 participants from both countries to identify researchers and companies in the border region to collaborate in this field.
  - Various studies promoted by FUMEC on Technological Innovation Processes in the Export Maquiladora Industry in the Border Region, undertaken by researchers from COLEF, FLACSO and UAM are underway.
  - A CONACYT proposal was presented to support the Regional Science and Technology Plan of El Paso-Cd. Juarez that includes the promotion of technology-based firms and research and development centers.
- In its *University-Industry Bi-national Collaboration for Pollution Prevention* program, the Foundation has obtained promising results:

- It promoted and supported the establishment of three regional Bi-national Roundtables for Pollution Prevention as permanent mechanisms for analysis, communication and coordination between the various relevant actors in the border region.
  - The Foundation introduced a web-based course on Cleaner Production through a series of workshops along the border region. Six higher education institutions are now involved in teaching these courses and three more have expressed interest.
  - The Foundation supported the development of a study about pollutant emissions in border industries. It also supported a study to determine the need of human resources with training as specialists in pollution prevention.
  - FUMEC supported the design of virtual centers dedicated to research and technical assistance in pollution prevention for border industries. A proposal was submitted to CONACYT to fund the development of a Virtual Compliance Assistance Center along the U.S.-Mexico border. UTEP has offered to host an Information Clearinghouse in Spanish, linked to the 8 information databases sponsored by EPA.
  - The Foundation has supported the creation of the Border Network of Distance Education in Cleaner Production made up of various research institutions. Currently the network includes six Mexican institutions: UACJ, UABC, CMPL, CIDETEC, UAT-Reynosa and ITESM-Chihuahua.
  - FUMEC has supported various workshops organized jointly with the Mexican National Water Commission about pre-treatment of industrial waste discharges and is working on the proposal for a Network on Technological Innovation for Pre-treatment of Industrial Waste Discharges.
  - Two workshops were held in Tijuana and Cd. Juarez with more than 100 participants from industry, government and academic institutions.
- In the *Pollution Prevention and Technological Innovation in Micro and Small Firms* program, FUMEC has obtained significant results:
    - It supported various workshops on Industrial Extension for Micro and Small Firms.

- FUMEC has developed a System of Technical and Entrepreneurial Assistance (SATE) for auto repair shops in Nuevo Leon and Tamaulipas.
  - It has signed Memoranda of Understanding with the Ministry of Economy and PennTAP to support the SATE system.
  - The Foundation supported the development of a methodology to assess the impact of the SATE system on the firms assisted.
  - The Foundation has been working with various environmental agencies to review the environmental regulation for micro and small firms in order to support their compliance through the technical assistance offered by the SATE system.
- In its program of *Academic Exchanges*, the Foundation has continued its support to summer fellowships for young Mexican researchers in U.S. labs and higher education institutions in the areas of chemistry and physics:
    - It signed an agreement with the Mexican Society of Physics to jointly sponsor summer fellowships for physics students.
    - The Foundation has strived to include higher education institutions from all over the country so that their young scientists can also take advantage of these exchange programs.
    - 31 persons participated in these academic exchange programs during 2001.
- In the *Teaching of Science in Basic Education* program, the Foundation has worked closely with the Mexican Ministry of Education and the Science Academies of both countries to facilitate bi-national collaboration.
    - FUMEC organized, together with the National Academy of Sciences and the Ministry of Education, an International Conference that brought together more than 300 researchers and education authorities from over 12 countries.
    - FUMEC signed agreements with the Bristol-Myers Squibb Foundation and Lucent Technologies to jointly support collaboration in K-12 science education.
    - The Foundation organized several national conferences on themes such as Research on the Evaluation of Science Learning and Training of Science

Teachers. More than 200 scientists, education researchers and teachers participated in these conferences.

- FUMEC supported the development of a proposal to make a comparative study of inquisitive learning of science in various U.S. and Mexican states.
- The Foundation has promoted and supported pilot projects to implement inquisitive hands-on learning of science in five Mexican states, with the support of U.S. organizations. Tamaulipas is the most advanced state and is now working with 24 schools and 4,500 students. Quintana Roo is currently working with 30 schools in three regions.
- Eight professionals from Nuevo Leon and Tamaulipas attended courses given to science education teachers of interested school districts in the United States.
- FUMEC has opened new channels and supported bi-national collaboration in research projects about innovation in the teaching of science.
- A Memorandum of Understanding was signed by the Mexican Ministry of Education, the U.S. National Academy of Sciences and the Foundation to collaborate in the innovation of science education.
- SEP and FUMEC have been working to establish the bases for programs that promote, at the national level, research and innovation in science education at the elementary level.

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## GLOSSARY

BECC	Border Environment Cooperation Commission
CAM	Metropolitan Environmental Commission
CEMCAS	Mexican Center for Water and Sanitation Training
CIDETEC	Electrochemical Research and Development Center
CIMAV	Research Center of Terms for Advanced Materials
CMPL	Mexican Center of Clean Production.
COLEF	College of the Northern Border
CONACYT	National Council of Science and Technology
CONOCER	Normalization and Certification Council for Competent Labor
EPA	Environmental Protection Agency
FLACSO	Latin American Faculty of Social Sciences
IBWC	International Boundary and Water Commission
IMSS	Mexican Institute of Social Security
ITESM	Monterrey Technological Institute of Higher Studies
MIT	Massachusetts Institute of Technology
NADBANK	North American Development Bank
NOG's	Non-governmental organizations
SATE	System of Technical and Entrepreneurial Assistance
SCCAT	Training, Certification and Technical Assistance System
SEMARNAT	Ministry of Environmental and Natural Resources
SEP	Ministry of Public Education
SSA	Ministry of Health
UABC	Autonomous University of Baja California
UACJ	Autonomous University of Ciudad Juarez
UAM	Autonomous Metropolitan University
UAT	Autonomous University of Tamaulipas
UNAM	National Autonomous University of Mexico
UTEP	University of Texas-El Paso

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## FINANCIAL INFORMATION



**FUNDACIÓN MEXICO ESTADOS UNIDOS PARA LA CIENCIA, A. C.**  
**BALANCE GENERAL**  
**AL 31 DE DICIEMBRE DEL 2001 Y 2000**  
**(Expresado en pesos)**

	<u>2001</u>	<u>2000</u>
<b>ACTIVO CIRCULANTE</b>		
Caja y Bancos en moneda nacional	\$ 569,023	\$ 142,035
Caja y Bancos en USD	2,661,712	557,007
Reserva de gobierno	6,545,155	4,036,200
Intereses de la inversión de EUA no utilizados al final de año	135,394	1,408,453
Intereses de la inversión de MEX no utilizados al final de año	185	420,305
<b>Total efectivo disponible</b>	<u>9,911,469</u>	<u>6,564,000</u>
Deudores Diversos	546,066	118,504
<b>Total Activo Circulante</b>	<u><b>10,457,535</b></u>	<u><b>6,682,504</b></u>
<b>ACTIVO FIJO</b>		
Activo Fijo	1,008,099	754,716
Depreciacion Acumulada	<u>(489,377)</u>	<u>(334,843)</u>
<b>Total Activo Fijo Neto</b>	<u><b>518,722</b></u>	<u><b>419,873</b></u>
<b>ACTIVO DIFERIDO</b>		
Gastos de Instalacion y Organización	58,308	182,177
<b>TOTAL ACTIVO</b>	<u><b>\$ 11,034,565</b></u>	<u><b>\$ 7,284,554</b></u>
<b>PASIVO</b>		
Acreedores y Proveedores	\$ 4,361	\$ -
Impuestos por pagar	626,156	282,299
<b>Total Pasivo</b>	<u><b>630,517</b></u>	<u><b>282,299</b></u>
<b>PATRIMONIO</b>		
Patrimonio	7,002,256	1,824,356
Resultado del ejercicio	<u>3,401,792</u>	<u>5,177,900</u>
<b>Total Patrimonio disponible</b>	<u><b>10,404,048</b></u>	<u><b>7,002,256</b></u>
<b>TOTAL PASIVO Y PATRIMONIO</b>	<u><b>\$ 11,034,565</b></u>	<u><b>\$ 7,284,555</b></u>
<b>CUENTAS DE ORDEN</b>		
<b>FONDOS DE APOYO PATRIMONIAL</b>		
National Science Foundation	36,569,200	38,398,800
	27,426,900	19,199,400
United States Department of Agriculture	17,370,370	18,239,430
U.S. Environmental Protection Agency	18,284,600	19,199,400
Consejo Nacional de Ciencia y Tecnología	<u>54,372,622</u>	<u>47,998,500</u>
	<u><b>154,023,692</b></u>	<u><b>143,035,530</b></u>

**FUNDACION MEXICO ESTADOS UNIDOS PARA LA CIENCIA, A. C.**  
**FINANCIAMIENTO DE PROGRAMAS**  
**AL 31 DE DICIEMBRE DEL 2001 Y 2000**  
**(Expresado en dolares)**

	<u>2001</u>	<u>2000</u>
Salud ambiental en la franja fronteriza	557,094	741,071
Desarrollo industrial sustentable	336,321	73,769
Mejoramiento de recursos humanos en ciencia y tecnología	294,137	169,604
<b>Total financiamiento de programas</b>	<u>1,187,552</u>	<u>984,444</u>

April 11, 2002.

**To the Associates of  
Fundación México-Estados Unidos para la Ciencia, A.C.:**

We have examined the accompanying Balance Sheet Statement of **Fundación México-Estados Unidos para la Ciencia, A.C.**, as of December 31<sup>st</sup>, 2001, and the related Statement of Income and Expenses, of Variations in Net Worth and Statement of Changes in Financial Position of the Company for the year ended on such latter date. These financial statements are the responsibility of the Company's Management. Our responsibility is to express an opinion upon these Financial Statements, based on our audit.

We conducted our audit in accordance with the generally accepted auditing principles in Mexico. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement and are prepared in accordance with the generally accepted principles. An audit includes examination on a test basis, evidence supporting the figures, and disclosure of the financial statements. An audit also includes assessing the accounting principles used, the significant estimates made by the management, as well as evaluating the Financial Statements presentation. We believe that our audit provides a reasonable basis according to our opinion.

We believe that the Financial Statements referred to above fairly represent, in all material aspects, the financial position of **Fundación México-Estados Unidos para la Ciencia, A.C.**, as of December 31<sup>st</sup>, 2001, and the result of its operations, the variations in net worth and changes in the financial position for the year ended on such latter date in conformity with generally accepted accounting principles, applicable to this kind of organizations.

The Financial Statements as of December 31<sup>st</sup>, 2000 were carried out by another independent P.A. who uttered his unreserved opinion on April 05, 2001, and the latter are submitted on a comparative basis.

**Avan C Desarrollo de Negocios, S.C.**

**C.P.A. Marcos López Hernández**

Mexico City, México

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**BOARD OF GOVERNORS**

**Dr. Pablo Rudomín, President, (2001-2002)**

President of the Science Advisory Council for the President of Mexico, Recipient of the Prince of Asturias Award of Spain and the “Luis Elizondo” Award in Medical and Biological Science. He was a member of the International Committee for the Selection of the Bower Award and the Award in Sciences of the Franklin Institute, Philadelphia; Member of the Mexican National Academy of Science.

**Dr. Clint Smith, Vice President, (2001-2002)**

Senior Research Scholar at the Stanford Institute for Economic Policy Research, Stanford University. Retired senior diplomat, academic, philanthropist, and author of several books on United States-Mexico relations, including most recently “Inevitable Partnership: Understanding Mexico-U.S. Relations” (2000) and “Mexico y Estados Unidos: 180 años de relaciones ineludibles” (2001).

**Dr. Susan Scrimshaw, Deputy (2001-2002) and ex-President, (1998-2000)**

Dean of the School of Public Health at the University of Illinois in Chicago. Member of the American Institute of Medicine of the National Academy of Sciences. Member of the AAAS. She received the Margaret Mead Award from the Applied Anthropology Society and the Award of Merit in Public Health, presented by President Vicente Fox of Mexico.

**Benito Bucay, Treasurer (2001-2002)**

Director of the Industrial Group BRE, Member of the Board of Trustees of National Autonomous University of Mexico (UNAM). He was Senior Director of DESC Group. Andrés Manuel de Río Award of the Mexican Chemical Society and the Ernesto Ríos Award of the National College of Chemical Engineers and Chemists.

**MEMBERS OF THE BOARD**

**Dr. Mario Molina**

Professor at the Massachusetts Institute of Technology (MIT), Nobel Prize in Chemistry (1995), Member of the U.S. and the Mexican Academy of Science, and of the U.S. Institute of Medicine.

**Dr. Diana Natalicio**

President, University of Texas at El Paso, Member of the National Science Board, Harold McGraw Prize in Education, Member of the Texas Women’s Hall of Fame.

**Honorable Jaime Oaxaca**

Chairman, The Oaxaca Group and Vice Chairman Coronado Communications, formerly Corporate Vice President and Division General Manager of Northrop Corporation.

**Dr. Raúl Gerardo Quintero Flores**

General Director of the Technological Division of HYL SAMEX Iron and Steel Works Group, formerly President of the Mexican Association of Directives of Applied Research and Technological Development.

**Jaime Parada**

General Director of the National Council of Science and Technology. He has worked in companies such as, SIDERMEX, Vitro Group, and CYDSA and as a consultant in technology development and engineering.

### **Fernando Solana**

President of the Mexican Fund for Education and Development. Consulting partner of Analytical Consulters. He has been Mexico's Minister of Education, Commerce and Foreign Relations in various administrations. Member of the Board for diverse companies and cultural organizations. He is an author of various books and essays on international subjects, education, finances, economics, and business.

### **Dr. Álvaro Alberto Aldama Rodríguez**

General Director of the Mexican Institute of Water Technology. He is a specialist in Fluid Mechanics, Superficial Hydraulic Mechanics, Underground Hydrological Mechanics and Mathematics Modeling. He is a former President of the National Academy of Engineering (ANI).

### **Dr. Salvador Malo Álvarez**

Ph.D. in Physics, Imperial College, University of London. Member of the National System of Researchers. General Director of the National Center for Evaluation of Higher Education (CENEVAL). He has been General Secretary of Mexico's National University (UNAM) and Advisor to the President's Commission for Social and Human Development.

### **Dr. Jaime Sepúlveda Amor**

General Director of the National Institute of Public Health in Mexico, He was the Undersecretary of Coordination and Development of the Secretary of Health and was responsible for planning and implementing priority Public Health programs.

### **Dr. Peter H. Raven**

Director of the Missouri Botanical Gardens. One of the leading botanists in the world, he was Home Secretary of the U.S. Academy of Science. He is the President of the American Association for the Advancement of Science. Decorated by President Clinton with the National Medal of Science, the highest Scientific Honor in the U.S.

### **Marta Macias Brown**

President/CEO of the Brown Foundation, a nonprofit educational organization providing leadership in the field of informal science education. The foundation is named after the late Congressman George E. Brown, Jr., who believed in the need to help the public better understand science research. Member of the Advisory Board of the International Institute of the University of California, UC MEXUS. Member of the National Science Foundation.

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Assistant Director of the United States – Mexico Foundation for Science, She was Director of Information, Analysis and Evaluation for the National Council for Science and Technology and Advisor for the Direction of Science and Technology Policy at the same institution. She worked as an Expert in Science and Technology Policy for the United Nations Organization for Industrial Development (PNUD / ONUDI).

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