



LAUREATE
INTERNATIONAL
UNIVERSITIES®



SOCIAL
RESPONSIBILITY
REPORT
2013
MEXICO



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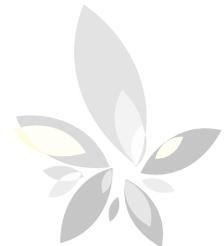


PRESENTATION

For the past five years, Laureate Mexico has made the corporate social responsibility report of Universidad del Valle de México (UVM) and Universidad Tecnológica de México (UNITEC) available to the public.

Our universities have an influence on the life of hundreds of families across Mexico. We are proud and committed to acknowledge the transforming power of our institutions in the life of our students, alumni and employees. The size of UVM and UNITEC, and their influence at their corresponding locations, and across the nation, bind us to permanently seek for ways to strengthen our legacy.

This Social Responsibility report is divided into five areas: Social Responsibility Management, Quality of Life and the Workplace, Community Engagement, Environment and Applied Research. We wish to share a number of actions undertaken by members of our community, even though we know that still hundreds of valuable initiatives have not been included.





Our universities have an influence on the life of hundreds of families across Mexico. We are proud and committed to acknowledge the transforming power of our institutions in the life of our students, alumni and employees.

SOCIAL RESPONSIBILITY MANAGEMENT





Spreading a culture of social responsibility across our institutions.



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THE SOCIALLY RESPONSIBLE COMPANY DISTINCTION

Centro Mexicano para la Filantropía (CEMEFI) awards the Socially Responsible Company Distinction. Currently, it is the most important recognition in the area, in Mexico. In 2013, Universidad del Valle de México and Universidad Tecnológica de México were awarded as Socially Responsible Companies for fourth and fifth year, respectively.

Being one of the organizations accredited as Socially Responsible inserts us in a continuous improvement process and calls for an annual review of progress made in a number of areas.





GLOBAL COMPACT AND PRME

Since 2009, Laureate member Universities in Mexico have committed to align their operation and strategies with the ten principles of the United Nations World Pact for human rights, labor, environment and eradication of corruption.

During such same year, Universidad del Valle de México and Universidad Tecnológica de México adhered separately to the Principles for Responsible Management Education-PRME. This initiative, also of the UN, seeks that education systems make progress to train leaders capable of facing the challenges of society. PRMEs aim at gradual adaptation of academic content, methodologies, research and actions that education institutions undertake in order to incorporate sustainability and social responsibility to their corresponding curricula.





CLINTON GLOBAL INITIATIVE

Since 2005, President Bill Clinton, Honorary Chancellor for Laureate International Universities, fosters the Clinton Global Initiative (CGI). This event convenes global leaders to devise and implement innovative solutions to some of the world's most pressing challenges.

Annual CGI meetings have summoned more than 150 heads of government, 20 Nobel Prize winners, hundreds of directors of private companies, foundations and organizations of the civil society, as well as some of the world's philanthropic and media leaders. To date, more than 2,300 commitments undertaken by GCI members have improved the life of more than 400 million people in 180 countries worldwide.

The Annual CGI Meeting is held in New York. In this exclusive event, students, faculty members and management from the Laureate International Universities member institutions participate either physically or virtually.

The 2013 meeting, themed "Mobilizing for Impact", included debates and discussions about the way in which Clinton Global Initiative members may create synergies and attain resources and alliances to assure that their social benefit projects have greater impact and are sustainable.

Communication higher education students, Alan Jesús Navarro and Brenda Jensen Fernández, were among the students chosen by Laureate International Universities to attend and take part as presenters during the live broadcasting of the Clinton Global Initiatives' Annual Meeting in New York. Alan and Jensen interviewed some of the attendees such as Sheryl Sandberg, Facebook's Chief Operating Officer, and Chelsea Clinton, a member of the Clinton Foundation board of directors.

Moreover, 45,000 Laureate International Universities' students from around the world participated live or via broadcasts. This experience contributes to reflection and builds awareness on some of the world's most pressing challenges.



**We care
about the
wellbeing
of our
employees
and their
families.**



**QUALITY OF LIFE AT
THE WORKPLACE**



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We strive to be a good place to work providing our associates with entertainment and family integration activities. As in previous years, we wish to share some activities and examples of growth testimonials of employees at Laureate Mexico.





TRANSPORTATION SERVICES FOR EMPLOYEES AND FLEXIBLE SCHEDULES

Aimed at fostering collaborative work and increasing productivity, Laureate Mexico moved corporate offices to more modern facilities. Four bus routes have reduced transportation time by an average of 45 minutes per trip for each of the 200 users. With this action, Laureate is also contributing to the reduction of pollution.

Moving to our new facilities also included a flexible schedule plan that allowed associates to choose among convenient entry and exit times prepared in accordance with objectives of their respective areas.

CORPORATE GAMES

The Corporate Games organize tournaments for employees at different locations around the world. The objective of the games is to offer a national sports competition alternative for associates and promote team spirit, loyalty, and trust, as well as value experiencing.

Each year, these games take place for three consecutive days around different Mexican states. During the 2013 edition, 100 UVM employees from Mexico City, Estado de Mexico and Morelos took part in Soccer 7, Basketball, Volleyball and Track.



GROWTH OF OUR PEOPLE

A Mexican is Appointed Manager of HRIS for Laureate Latin America

On October 2007, Luis Johannes Muñoz López joined Universidad del Valle de México to undertake a career and personal growth experience. His key mission was to renew policies and procedures across UVM, as part of the Regulating Team.

Luis stayed there for 6 months and in 2008 joined Human Resources as leader to migrating UVM's payroll of employees, faculty and administrative personnel (more than 8 thousand employees) to one bank and then to establish the Electronic Payroll Receipt system. His contributions during the implementation of technological tools for data management at academic and administrative areas lead him to undertake greater responsibility and gain a vaster knowledge of the institution. Thus, in 2013 he was appointed as HRIS Manager for Laureate Latin America to implement an interface information system among HR areas along the Andean Region (Chile, Peru and Ecuador), Brazil and Central America (Panama and Costa Rica).

Luis Johannes Muñoz is a Computer Systems Engineer and attained his Master's during the time he was at UVM.

What Luis cherishes most about Laureate is people and the leaders who have supported him during the projects. Moreover, he likes the fact that our universities foster education not only for students, but for personnel, thus generating great value for the company and for his colleagues.

"It is a company that gives you room for growth but, at the same time, you have to contribute with new initiatives and reinvent certain processes in order to improve and offer new solutions in a more competitive way".





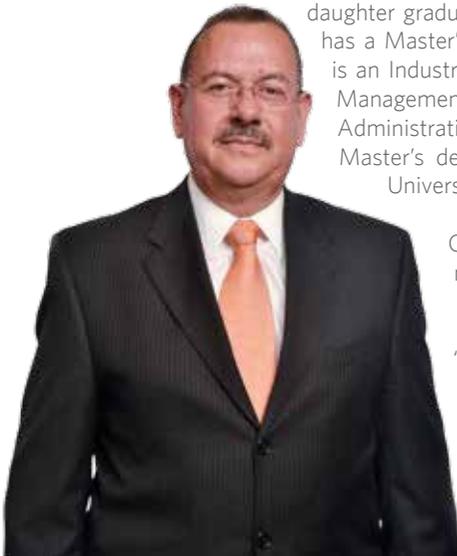
GROWTH OF OUR PEOPLE

Rector, and Example of Professional Progress

The professional background of Jorge Vázquez Solache at Universidad Tecnológica de México began in 1995 when he joined the organization as Maintenance Manager at the Marina-Cuitláhuac Campus. He was in charge of managing asset control and projects. By 1998 he was appointed Director of Administration and Finance and two years later he successfully participated as candidate for the Divisional Engineering Director's position at the Atizapán Campus. He recalls that it was there where he truly experienced the relevance of human capital for the institution, and thus motivated him to design quality indicators still applied at UNITEC today.

In 2008-2009, after an excellent performance as Divisional Director, he returned to the Marina-Cuitláhuac campus and was candidate as campus Rector. During those years, the institution joined Laureate International Universities. Jorge has been Rector since then, and under his leadership the Marina-Cuitláhuac campus has obtained six inter-campus quarterly competence stars for best growth results.

Jorge Vázquez Solache is a Mechanical Engineer and graduated from Instituto Politécnico Nacional; he got his Master's in Management Skills from UNITEC. His three children are UNITEC graduates: his daughter graduated from Administrative Computing, and has a Master's in Project Management; his second son is an Industrial Engineer and has a Master's in Project Management as well; and his youngest son is a Business Administration graduate and is about to conclude his Master's degree. All these diplomas have been by Universidad Tecnológica de México.



One of the things that he cherishes most as UNITEC employee is that many development, training and growth opportunities are available at the institution. "Every year there is more challenges and goals that demand innovation, creativity and true love for you are doing. The institution makes sure that good employees are rewarded".



GROWTH OF OUR PEOPLE

Witness and Partaker of the Growth of Puebla

Julieta Pozos Pérez has been entrusted with different assignments since she joined UVM 11 years ago. Back then, the Puebla Campus was barely starting-up. In the beginning, she was in the Marketing area; that implied activities such as telemarketing and admission exams. She was then promoted as Administrative Aid, then Administrative Assistant and, today, she is the Rector's Assistant. From such position, she can put into practice everything she learned in previous positions, and gain new skills and knowledge.

She acknowledges that UVM has allowed her to meet and work with people who have contributed to her development. She knows that there are many things yet to be learned and believes that Laureate offers professional development activities constantly.

Julieta has been a true partaker of UVM in Puebla and wishes to contribute strengthening the Institution in this region.

"Being part of a company without borders, thus contributing to the growth of young talents and entrepreneurial leaders is my true driver".



A number of actions are undertaken by our campi nationwide in order to contribute to their communities.



**COMMUNITY
ENGAGEMENT**



**LAUREATE
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LAUREATE GLOBAL DAYS OF SERVICE

Laureate International Universities has created Laureate Global Days of Service as a worldwide initiative. Every October, it calls members of the community to work as volunteers for a given cause for one or several days.

UVM and UNITEC have taken active part in a number of initiatives based upon the needs of their communities.





HERE FOR GOOD

Besides promoting access to quality education, the mission of Laureate International Universities includes contributing with value and leaving a positive legacy in our communities. Laureate educates a new generation of young leaders with the potential to change the world. Many of our students and graduates have started-up social undertakings or are engaged in activities that contribute to social benefit.

The laureatehereforgood.net portal underscores our social engagement with communities at a global level and proves that we are “Here for Good”.

The Annual Here for Good award was created in 2012 by Douglas L. Becker, President and Managing Director of Laureate Education, Inc. to recognize and promote the work of social entrepreneurs who put their skills to solve social problems.

Patsy Pamela Ordóñez Arellano, UVM graduate received the 2013 Here For Good Award in an event held in Orlando, Florida. Patsy created the Fundación Nacional para el Cáncer Cérvico Uterino A.C. This foundation informs, contributes to prevention and builds awareness on gynecological care in the Mexican society for diagnosis and control of HPV, therefore contributing to the prevention of deaths resulting from cervical cancer.

Patsy created the Foundation when she was 20 due to the existing need to inform women about HPV -main cause of cervical cancer - prevention and treatment. The Foundation has a clinic in Mexico City with health professionals who contribute to the effort voluntarily. In 2012, the clinic treated 3,800 women.

Moreover, the Foundation works with authorities and leaders to promote the dialog about HPV. This disease is present in Mexico and, unfortunately, many women are treated too late due to scarcity of economic resources available for timely attention and treatment.

To learn more about Patsy and Fundación Nacional para el Cáncer Cérvico Uterino A.C., go to www.funacc.org.mx





OUR STUDENTS SUPPORT COMMUNITIES THROUGH COMMUNITY SERVICE

Community service is a mandatory prerequisite to obtain a diploma in Mexico, as per article 5th of the Constitution. Community service is a unique opportunity for students to apply their knowledge in benefit of the community.

In 2013, 14,646 UVM and UNITEC students completed their community service.

10,200 UVM students **4,896,000 HRS.**
4,446 UNITEC students **2,134,080 HRS.**

In order to encourage commitment and stress the value of the work performed by our students, UVM created the Award to Best Practices in Community Service to recognize bachelor's degree students who have excelled during their community service thanks to their talent, attitude, responsibility and resourcefulness to generate and apply solutions for the project or program in which they take part.

This year, Gustavo Gamaliel Martínez Pacheco, Director General of the DIF in the Federal District honored award winning students:

- 1st place: Karen Bolaños Hernández, Graphic Design student from the Hispano Campus for her work called "Conservación y Difusión Museográfica" ("Museographic Dissemination and Preservation") at Museo Nacional del Virreinato in Tepozotlán. The Museum also recognized her as "Community Service Contributor of the Year".
- 2nd place: Jonathan Meléndez Hernández, Tourism Business Administration student from the Tuxtla Campus for his work called "Apoyo a Agricultores, Campesinos y Agroindustriales" ("Support to Farmers, Campesinos and Agroindustries").
- 3rd place: Oscar Gerardo Maya Espinoza, Mechatronic Engineering student from the Mérida Campus for his project called: "Celda de Combustible de Alcohol Directo (etanol)" ("Ethanol Fuel Cell").



UVM SOCIAL DEVELOPMENT AWARD AND UNITEC AWARD FOR SOCIAL DEVELOPMENT INNOVATION

Since 2001, each year the YouthActionNet® program of the International Youth Foundation recognizes 20 young students worldwide who have founded successful social initiatives. Upon acknowledging the value of young people across the globe, Laureate International Universities decided to implement the YouthActionNet® program across several institutions of the Laureate network, in order to create local awards to celebrate and encourage the talent of young social entrepreneurs.

To date, as part of the YouthActionNet®, recognition to young social entrepreneurs takes place in Mexico, Brazil, Spain, Turkey, Chile, Peru, Honduras and Costa Rica.

Furthermore, the Laureate Global Award is granted to 20 young people worldwide every year.

2013 was of particular relevance for Mexico in the implementation of the YouthActionNet® program. UNITEC decided to launch an invitation to find 3 young social entrepreneurs each year with projects emphasizing technological innovation, one of UNITEC's greatest strengths.

Likewise, the UVM Award has positioned itself as promoter of young leadership and social causes embraced by the young.

Winners of both programs are awarded with economic support, specialized training and dissemination of the corresponding cause. Moreover, they become members of the YouthActionNet® vast network.





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The young people awarded the UVM Social Development Award are:

NAME	PROJECT	STATE
Alfonso Salvador Rocha Robles	Desarrollo Sustentable Ecogastronómico	Puebla
Carolina Zuheill Candelario Rosales	GUIMEDIC	Jalisco
Daniel Alessander Sánchez Estrada	Asociación Civil Manos Especiales	Yucatán
Gerardo García Quintero	Tetoka Voluntades que Trascienden A.C.	Durango
Israel Gonzalo Vilchis Pérez	Coloreando Vidas A.C	Distrito Federal
Joseliny Omar Díaz Torres	Arte en las calles	Chiapas
Luis Manuel Hernández Rodríguez	Libros Vagabundos	Aguascalientes
Maria del Refugio González Sánchez	Math2me	Baja California
Miryam Vargas Teutle	Comunicación comunitaria en regiones nahuas del Volcán Popocatepetl	Puebla
Mónica Salmón Gómez	FM4 Paso Libre. Dignidad y Justicia en el Camino	Jalisco
Patsy Pamela Ordoñez Arellano	Fundación Nacional para el Cáncer Cérvico Uterino A.C.	Distrito Federal
Ramón Esteban Estrada Muñoz	ACArtes	Campeche
Ricardo Santiago Luna	Equipo sustentable y Multidisciplinario "maj tisentekitjkan ika se yeknemilis" (trabajemos con una nueva visión para una vida mejor)	Puebla
Zaira Guadalupe Vázquez Figueroa	Una Segunda Mirada	Jalisco
Zaira Leticia García Castro	Festival de Arte, Literatura y Ciencia de Santa Cruz Tejalpa (FesTeja)	Puebla

The 2013 UNITEC Award for Social Development Innovation was given to:

NAME	PROJECT	STATE
Fausto Javier Oropeza Enriquez	ANUDARTE / Fabric weaving	Federal District
Stefanía Pérez Cardenas	IONIZER/ optimizing fuel consumption and emission control for gasoline vehicles	Edo. de México
Omar Enrique Leyva Coca	PUVIA/ water saving using rain water for households	Federal District





UVM AND INDESOL FOSTER SOCIAL ENTREPRENEURSHIP AND VOLUNTEERISM

UVM Centro Institucional de Valores negotiated a collaboration agreement between Universidad del Valle de México and Instituto Nacional de Desarrollo Social (INDESOL) through which approximately 10 thousand UVM students will be able to take part in community service and professional practices each year across the nation and contribute to the development of voluntary action projects undertaken by INDESOL and enriched with the academic knowledge of young students.

María Angélica Luna Parra, head of the Instituto Nacional de Desarrollo Social and Dr. Bernardo González-Aréchiga Ramírez-Wiella, Institutional Rector of the UVM, created the link between these two institutions which foster education and community engagement and citizen shared responsibility efforts in their respective fields for the integral and equitable development of Mexican society.

This link impacts integral education through building awareness among UVM students towards social causes; moreover, it encourages collaborative work with INDESOL in search for social development and common good.

In accordance with the agreement, INDESOL will give access to documentary sources and materials for research by UVM faculty and students. In turn, UVM committed to the appointment of professors and researchers to issue expert opinions on social projects corresponding to the Programa de Coinversión Social (PCS), disseminate community service and professional practice opportunities among students of its 37 campi and encourage participation of its researchers in round tables and other activities held by the Institute.





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Execution of the agreement between INDESOL and UVM was the starting point for other agreements between both institutions consisting on exchange of information and experiences on projects aimed at social entrepreneurship consolidated by UVM, such as the UVM Social Development Award, by means of which a network of young people involved in social action may grow; research on dating violence, conducted by UVM and Instituto de las Mujeres del Distrito Federal, and qualitative research on the profile of successful social entrepreneurs called "El perfil de los emprendedores sociales exitosos", prepared by UVM's Centro de Opinión Pública.



Both institutions have committed to disseminate, organize and take part in conferences, workshops and fora on topics such as organized civil society, gender equality, institutional strengthening, and research for social development, citizenship participation and public policies, among others.

**UVM Mexicali Campus
installed a peripheral
module of Sistema
de Administración
Tributaria (SAT)**





STUDENTS ADVISORY TO TAXPAYERS

On April, the UVM Mexicali Campus installed a peripheral module of Sistema de Administración Tributaria (SAT) in order to render advisory services to taxpayers inside its facilities. The main objective was to aid individuals during the 2012 annual tax report submittal.

The Business Division students supervised by faculty were in charge of the module. Service was organized in two shifts in order to provide support to a greater number of people.

People interested in the advisory service were sent by the Servicio de Administración Tributaria (SAT) to the UVM directly.

Taxpayers were advised on valid documentation and during filling of the "Declara SAT" electronic format for income and expenditure recording for the 2012 term.

Based on data provided by users, our students issued reports indicating the amount payable by the taxpayer or the amount subject of return. A total of 194 tax reports were filed during this time.

The installation of this Taxpayer Attention Module at the UVM Mexicali Campus allowed students to put their knowledge at the service of the community. Moreover, it was a civic and ethical education exercise that taught students about tax payment responsibility and relevance.



RICHARD W. RILEY SCHOLARSHIP

Fifty basic, middle level and special education teachers benefited from the Richard W. Riley Scholarship, granted in 2013 by Universidad del Valle de Mexico to Mexican professors for their commitment and dedication to service at public and private institutions.

The Richard W. Riley Scholarship consists of full support to beneficiaries so that as of September 2013 they may enroll in the online Master's program on Education Institutions Management or on Competences Based Education, both taught at Universidad del Valle de México.

The 50 professors selected for the scholarship are from the Federal District, Estado de México, Coahuila, Durango, Hidalgo, Guanajuato, Morelos, Nuevo León and Puebla. The invitation to participate took place through several institutions which submitted candidates for the selection process. Organizations which took part in the dissemination of the invitation were Instituto Nacional de Desarrollo Social (Indesol), INNOVEC (Innovación en la Enseñanza de la Ciencia), Proeducación, Suma por la Educación, Alianza de Maestros and Asociación Nacional Cívica Femenina (ANCIFEM).

The scholarship was named after Richard W. Riley, former United States Secretary of Education, who strongly supported access to higher education during President Clinton's administration.

During the annual participation of the Laureate International Universities network during the Clinton Global Initiative, Mr. Douglas L. Becker -CEO of Laureate- committed to grant one thousand scholarships through different network member higher education institutions, in order to contribute to the training of remarkable faculty members. UVM contributed with 50 of such scholarships.



HEALTHY ATHLETES

Through a collaboration agreement executed with Special Olympics Mexico, on June 8th the “UNITEC 2013 Special Athletes” event took place. This activity hosted 188 athletes with intellectual disabilities from Veracruz, Hidalgo, Morelos and Federal District who took part in the Special Olympics Mexico event.

Students from UNITEC organized the following attention modules:

- 1.- Education for good mouth health: Students of the first two semesters of Dentistry and their professors provided information on the most common mouth conditions. A theatre play and poppets were used for this purpose.
- 2.-Physiotherapy Clinic: Students and professors, as well as volunteers of the Special Olympics event, assessed muscle tone, flexibility and physical fitness of participants; they shared exercises to improve undesirable conditions.
- 3.-Wellbeing Clinic: Students and professors of Nursing School, Nutrition and Red Cross volunteers registered vital signs, weight, height and body mass of participants. Likewise, they talked to parents of participating athletes about healthy habits, smoking, alcohol, domestic accident prevention and first aids.
- 4.- Eye Clinic: With support from Club de Leones Mexico and volunteer students and specialists from other institutions performed vision exams. Free sports glasses and goggles were supplied.
- 5.-Dental Clinic: Students and faculty members of Pediatric Dentistry and Periodontics, along with volunteers from other specialties of Dentistry postgraduate programs of UNITEC, diagnosed mouth health, performed dental prophylaxis and applied sodium fluoride enamel to participants. Postgraduate students, faculty members and residence students of the maxillofacial specialty of Hospital Juárez de México were in charge of urgent treatments necessary.
- 6.- Leisure: Dentistry students, Red Cross volunteers and young students used films and drawing material to raise awareness on what to do to be healthy. They also had dancing and fun!



EMPOWERING WOMEN IN RURAL AREAS

“Chiltepetl Sazonador Artesanal”, is a micro-company created to empower women in rural areas in Mexico, aimed at improving their quality of life and preventing forced migration.

El Carrizal, Veracruz, is a community made up by Totonaca indigenous families devoted to agriculture. Students and faculty members from UVM Lomas Verdes advised women from El Carrizal, Veracruz, on the production and marketing of a seasoning product prepared with chile chiltepín (chiltepín pepper), olive oil and grains, such as peanut, pip and almonds.

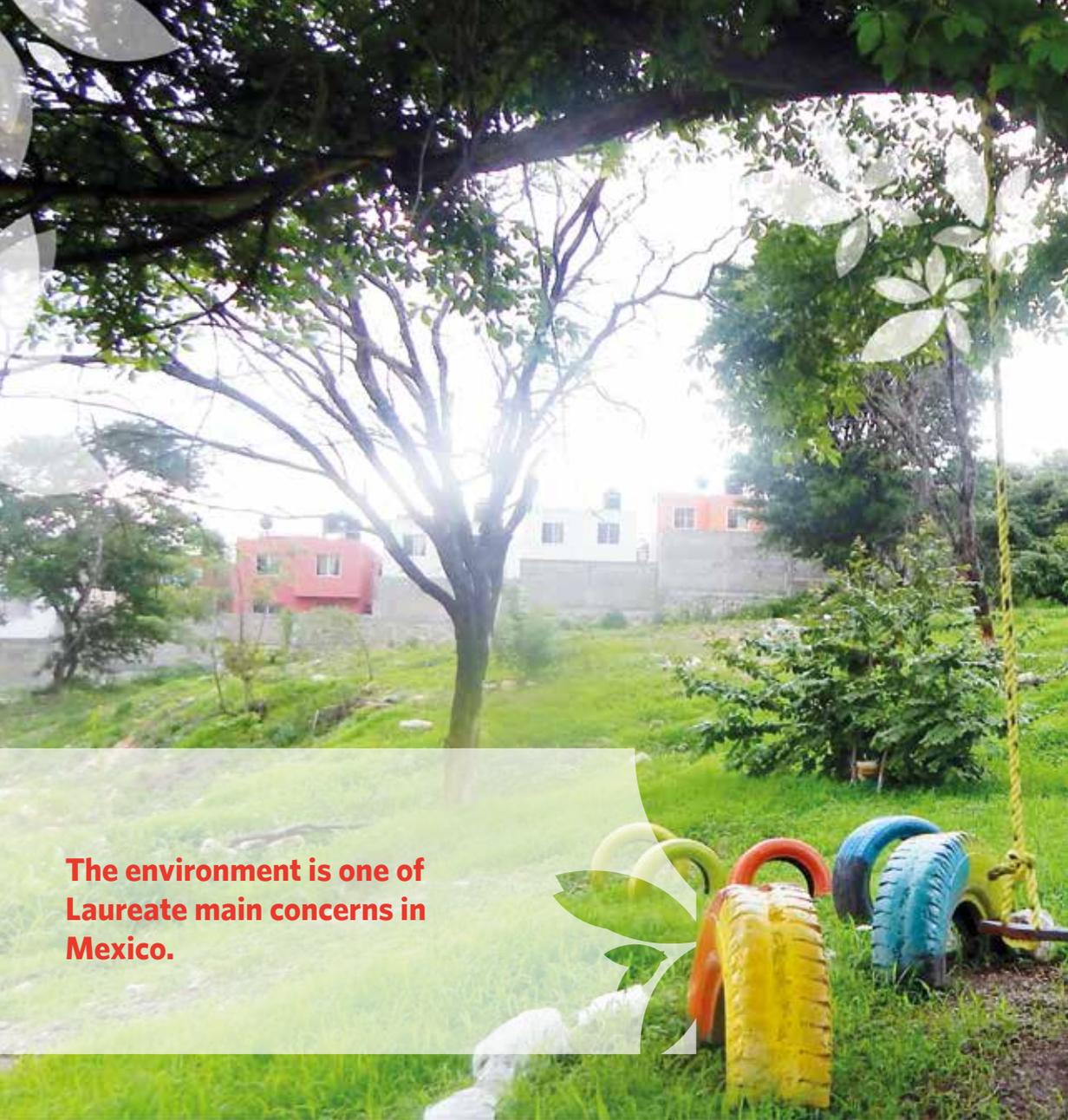
UVM students and professors designed the whole business processes: business model, standardization of processes to achieve necessary quality, design and construction of production facilities, identification of networks to market the product in the domestic market, define short and middle term objectives, with full involvement from the community.

With the effort of more than 109 hardworking students, consolidation of a market to guarantee sustainable and successful increase of income for the businesswomen was possible. This effort has transformed women into the driving force of the community and allows future generation to see a true possibility of growth in their own community thus preventing migration to the United States.





This project has been developed by ENACTUS Lomas Verdes. ENACTUS is a worldwide nonprofit organization made up of bachelor's degree students who seek change for the better through social, environmental and economic projects. The team works hand in hand with academic advisors and companies to build synergies and generate life changing projects.



The environment is one of Laureate main concerns in Mexico.

ENVIRONMENT



Students have contributed to the implementation of social benefit programs and creation of companies under sustainable criteria.



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GREEN CAMPUS

UVM Mexicali Campus decided to launch a program to take a number of actions to look after the environment. The project started with a water treatment plant in campus supported by a communication campaign to all students to raise awareness on the importance of taking care of water.

Moreover, the project included planting of plants across campus and watering from alternative sources to prevent waste.

Together with the Dirección de Ecología y Servicios Públicos Municipales (the municipal environment authority) a public space was adopted and approximately one thousand trees, shrubs and wild plants were donated. Water used for this project is also recycled.

Students, faculty members, management and parents have taken part in a number of activities.





100% GREEN BIOPARK

Today, the Sabines neighborhood, located in the southwest region of Tuxtla Guitiérrez, Chiapas, has a 100% green biopark - a new concept of recreational spaces in the state designed and developed by students from Universidad del Valle de México Tuxtla Campus led by professor Neín Farrera Vázquez.

Endemic plants and trees have been planted across the 1.5 hectare property, and green technologies and renewable energy sources will be used.

Stage one of the construction of the Biopark comprises a central palapa for activities, benches, lighting and watering systems, signaling for walking routes and sports areas, picnic areas. It will offer areas for traditional games such as canicas, trompo and avión, to be shared by adults and children alike.

Stage two of the construction project includes dining areas, food heating grills, one viewpoint and two gardens to grow a variety of fruits and vegetables.

For stage three the installation of photo-voltaic and wind energy systems are being contemplated to provide electric power. Moreover installation biodigestors to produce biofertilizers and biogas with some green stoves is also being contemplated.

Project complexity has called for the involvement of Civil Engineering, Architecture, Graphic Design, Business Administration, Communications, Industrial Design and Industrial Engineering students from the UVM Tuxtla campus.





PASNI UPCYCLING HANDMADE

Pasni is an environmental program led by UVM Texcoco campus students. The key objective is to promote the reduce reuse recycle culture. Students were concerned about the excess production of short duration of canvass materials used for advertising and early disposal by an advertising and printing firm in the municipality of Texcoco. The idea was to transform such material into bags, wallets, binders and other products. The firms, and other canvass donors, have realized that the first step to support environmental improvement actions may be taken by them.

This cross-functional team of students at UVM Texcoco campus put knowledge attained at school into actions to look after the environment and increase income and labor skills of craftsmen who, with the support of students, are currently producing different products.

During the first year of canvass donation, 200 binders, 200 wallets and 200 bags were produced. Donors include political parties, schools and local companies.





HOTEL AND ECOTOURISM AT TECOMULCO

Students of UNITEC Ecatepec Campus took part in the architectural design and generation process of a business model to create a Hotel-Ecopark project, along with a restaurant and a convenience store at Ejido Tecocomulco, in the state of Hidalgo. This community is made up by 400 ejido owners and their families, and is mainly devoted to agriculture and forestry. In the middle term, this concept is expected to substitute forestry and foster green tourism, thus creating a new source of sustainable income to benefit families in the area.

The hotel opened in 2013. The architectural project was prepared by our students in a 2,820 m² area, featuring 12 rooms - this number may increase until reaching three times the initial capacity. Management and authorities of UNITEC were invited to the opening event. The Tecocomulco community thanked the UNITEC for taking part in making this dream come true. Community leaders from neighboring ejido communities also joined the opening celebration and expressed their interest to develop similar projects in their communities.

The area will feature outdoors leisure activities, camping, and extreme sports such as rappelling, mountain cycling and zip-lines.

The second phase of the project considers cabins, camping area, a mountain cycling circuit and a restaurant.

Students who took part in this project are Sandra Mijangos and Gretel Miranda, from Architecture; Jair Vargas, from Marketing; Oscar Lorenzo, from Graphic Design; and Samantha Herrera, from Toursim.





**Knowledge learned in the classroom
makes sense only if applied in
benefit of the community.**

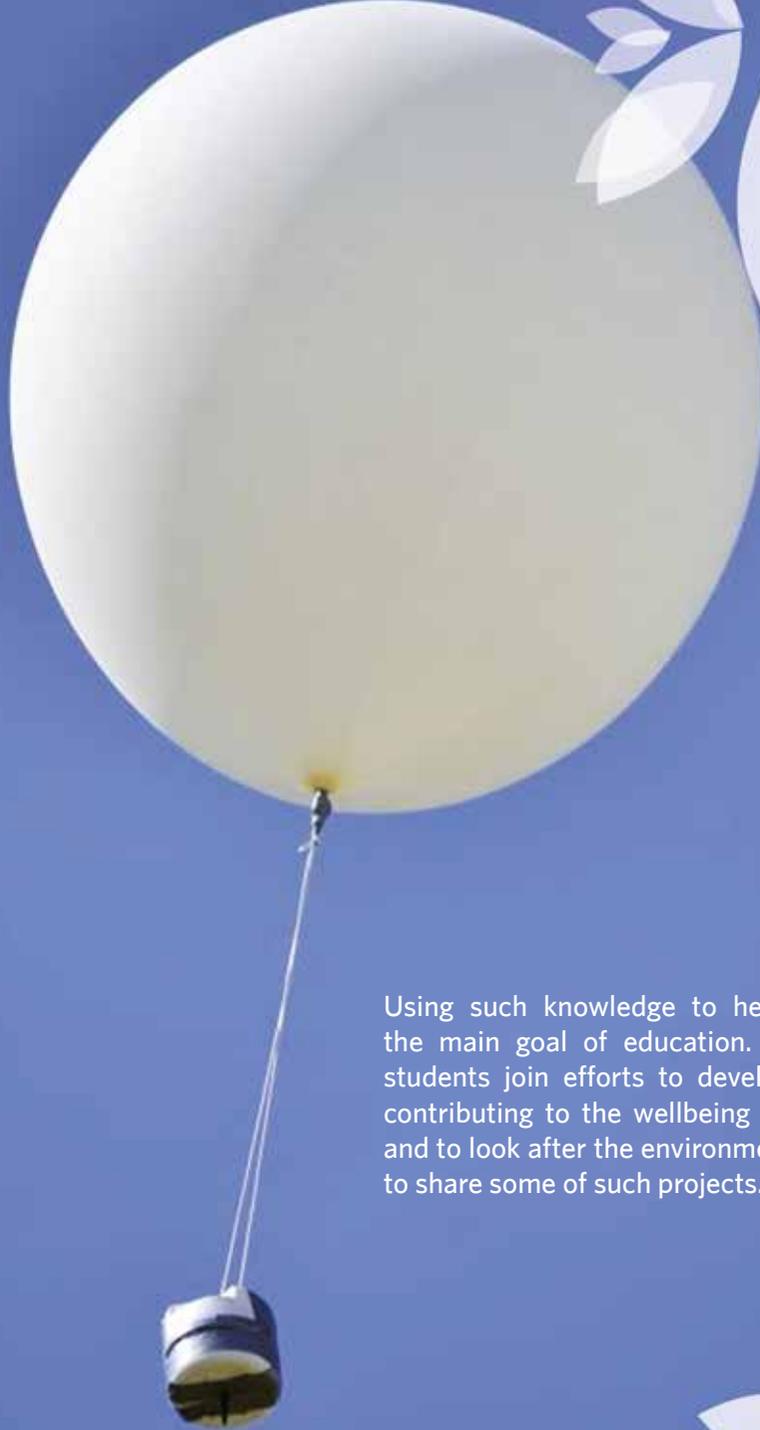


**APPLIED ACADEMIC
RESEARCH**



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Using such knowledge to help others is the main goal of education. Faculty and students join efforts to develop products contributing to the wellbeing of Mexicans and to look after the environment. We wish to share some of such projects.

Satellite launched by UVM campus Saltillo



CENTRO DE OPINION PUBLICA (PUBLIC OPINION CENTER)

Studies conducted at the Centro de Opinion Publica of Universidad del Valle de Mexico, share useful, objective and timely information with the community on a number of topics.

The main purpose is to share an open space with the voices of stakeholders who play a relevant role in society and who are not usually heard.

Therefore, the study of Education en Mexico was conducted in order to open a space for parents. Eight group sessions were held with parents with primary, high school and undergraduate (public and private) sons and daughters, in four cities across Mexico. Such sessions opened the door to concerns and needs expressed by such an important sector contributing to the education of the young people of the future.

In the topic of social responsibility, is also worth mentioning the study conducted by the Centro de Opinion Publica that allowed the identification of a profile of successful social entrepreneurs. This piece of research is a tool to understand how to encourage young people to undertake or engage in social action projects.

Moreover, a qualitative and quantitative study was conducted to learn about the opinions and points of view of experts and public in general with respect to the Fiscal Reform passed by the Executive Power and approved by Congress, as well as its implications in the national scenario and for Mexican families. The most relevant results of the study show that the Fiscal Reform "is not enough", according to analysts and experts.





STUDENTS DESIGN PROSTHESIS THAT INFORMS ABOUT THE TEMPERATURE OF OBJECTS

Nadia Hernández Ríos and José Alfredo Rodríguez are two young sixth semester Mechatronics students at Universidad del Valle de México Saltillo Campus. They designed a hand prosthesis that allows people who lack their upper limbs to tell the temperature of objects based on the color of the device upon touching any given surface.

The prototype uses clamps to hold objects, and works with three temperature sensors, one microcontroller and one processor that changes color depending on the temperature of the object.

The size of the prosthesis is now 40 centimeters long and the intention is to reduce it to the size of an actual hand. It meets aesthetic and mechanical functions and allows for the identification of lost sensations.





PRODUCTION OF XOCONOSTLE AND AGAVE HONEY MARMALADE AS AID AGAINST OVERWEIGHT AND DIABETES

Inspired by Mexican gastronomy and moved by the alarming figures on overweight and obesity, as well as the amount of patients suffering from diabetes, a group of students –currently alumni- of the bachelor's program on Nutrition from the UVM Chapultepec Campus, undertook the task to produce a Xoconostle marmalade with agave honey in order to contribute to preventing and fighting these conditions in thousands of Mexicans.

“Xocolita” is the name of this marmalade developed as a product for one of their school subjects. Made of Xoconostle, a fruit from cacti, with a significant amount of fiber, vitamin C, antioxidants and minerals. Agave honey is a natural sweetener obtained from the extraction of blue agave. This honey has low glycemic index and greater sweetening capacity if compared to conventional sugar. Consumption of Xoconostle tends to disappear in Mexico.

Katya González, Rosario Castillo, Vania Gallardo, Fátima Soriano, Gabriel Dioulo and Bernardo Nava are the team of creators of this marmalade, alumni of UVM Chapultepec Campus.





AEROSPACE TECHNOLOGY TO STUDY CLIMATE

Students of Universidad del Valle de México Saltillo Campus launched the “Fénix I” and “Fénix II” satellites to space in order to measure Earth’s electromagnetic field , as well as to gather climate, global warming and contamination data.

These meteorological balloons were developed by Mechatronic Engineering students at UVM Saltillo Campus, Edgar Serrano, Edgar Herrera, Luis Romero and José Alfredo Rodríguez under the leadership of Luis Arellano and Arturo Guzmán Carballido.

The satellites gathered data and images of the draught that has been affecting the Comarca Lagunera region for some years now. These data will have relevant applications in areas such as agriculture.





UNIVERSIDAD DEL VALLE DE MÉXICO TUXTLA CAMPUS DESIGNS SUSTAINABLE HOUSES IN RURAL AREAS

Three years ago, students and faculty members of Universidad del Valle de México Tuxtla Campus, aided by colleagues from the UNICACH (Universidad de Ciencias y Artes de Chiapas) and UNACH (Universidad Autónoma de Chiapas), dedicated themselves to the creation and design development of rural and urban houses with good thermal quality and to better preserve the environment and contribute to ecology, life quality and healthy coexistence.

Now, the three institutions are ready to begin construction of the first sustainable houses, initially inside property of the UVM Tuxtla Campus, UNICACH and UNACH. They will be 10 x 20 meters - the ideal size according to experts.

Doctor Neín Farrera, lead researcher at the Tuxtla Campus, is the project leader. There are several proposals for the construction of these sustainable houses in urban and rural houses, including conventional materials such as thermal block, cement, metal sheets and local materials including tile, brick, adobe and wood.

Blueprints, models and prototypes of key components and technologies have been developed. Moreover, some of their components have been implemented separately, such as photovoltaic power and cooling systems, water pumping, green stoves, tests of thermal materials, biodigestors, among others.

Additionally, the project has a broader scope regarding the social and cultural environment, mainly with respect to health, education, physical activity, nutrition and social peace, within a framework of respect and rescue of the local culture.

Students who take part of sustainable house project of UVM Tuxtla Campus are from the Architecture, Renewable Energies and Civil Engineering programs, among others.



Sustainable house design



OPTIMAL AND TIMELY TREATMENT FOR BABIES WITH CLEFT LIP AND PALATE

Cleft lip and palate is one of the most frequent congenital malformations affecting buccofacial structures. They are anatomic defects with strong repercussions from an aesthetic and functional standpoint that may give rise to future alterations and should be dealt with immediately.

UNITEC has undertaken a cross-sectional observational forward looking analytical research approach to conduct pre-surgical and post-surgical evaluations of patients with cleft lip and palate conditions who sought attention within their first 24 months of age at the UNITEC dentistry postgraduate unit. Thanks to timely diagnosis, the ideal treatment has been identified for 51 cases in accordance with protocols applicable to the attention of cleft lip and palate. Moreover, patients resorted to pre or post-surgical orthopedics as orthodontic treatment of their choice.





DENTISTRY FOR HIDROTIC ECTODERMAL DYSPLACIA

Hidrotic Ectodermal Dysplasia (HED) is an inherited disorder characterized by hypohidrosis, hypotrichosis and hypodontia. Most are X recessive linked.

To date, there had not been studies conducted describing more than one case of ectodermal dysplasia with its corresponding physical and dental manifestations that should be known by the dentist to diagnose the condition.

An observational, longitudinal, descriptive research was conducted on reports of clinical cases based on records of members of the Asociación Mexicana de Displasia Ectodérmica Mariana, in order to observe physical and dental characteristics, together with the different types of treatment applied to each one of them.

This research described four cases of ectodermal dysplasia with hypohidrosis, hypotrichosis and hypodontia, prominent forehead, depression of the nasal bridge, inverted triangle head shape, small skull, increased pigmentation around eyes and mouth. Teeth particularities include anodontia or hypodontia, hypoplastic or conical teeth, absence of development of the alveolar process, xerostomy, vertical dimension reduction.

