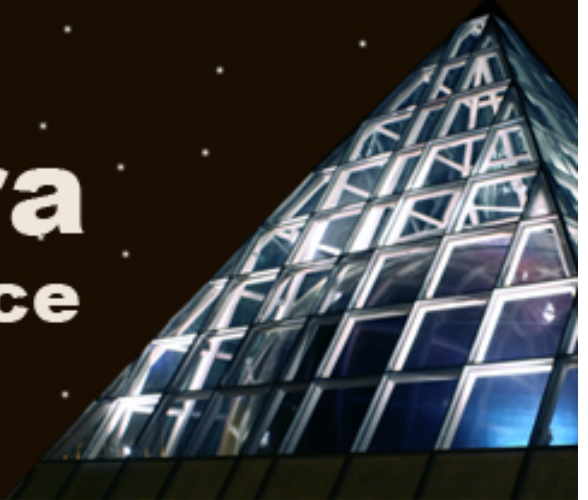


Texas A&M International University
Presents

**Lamar
Bruni Vergara
Academic Conference**
April 20-23, 2009





TEXAS A&M INTERNATIONAL UNIVERSITY

A Member of The Texas A&M University System

Office of the President

Dear All,

It is with great pleasure that I welcome everyone to Texas A&M International University's first annual Lamar Bruni Vergara Academic Conference. This Conference exemplifies the goals and underpinnings of our institution and its role in the larger community. It is through the generous support of the Lamar Bruni Vergara Trust that our students – with guidance and structure provided by the faculty – have been able to craft works demonstrating not only their intellectual labors, but the type of creative ideas that are needed to drive south Texas and the world in this new millennium of innovation.

These vital advancements spring from the collaboration of new minds working with peers and mentors across all areas of knowledge. This Conference gives our students just such an opportunity to share these works, drawing from across disciplines to build new knowledge and skills. As you will see from the list of presentations prepared for this Conference, there is a vibrancy driving our students' endeavors that grows from TAMIU's position as the center of our unique culture. These works are drawn from all areas of the arts, sciences, business, education, humanities, and health sciences.

These student contributions attest that TAMIU's promise of fostering intellectual growth and developing learning communities is being fulfilled. When our institution was created, it was with the promise of enriching the intellectual and economic lives of everyone in south Texas. Such enrichment was never intended to be the sole purview of the campus faculty and staff. Instead, TAMIU was meant to light a million fires in the minds of all who pass through our halls. These same initiatives are intended to spread this light throughout the region and world, and the presentations at this Conference show that such promise is indeed being fulfilled.

Sincerely,

Ray M. Keck, III
President



TEXAS A&M INTERNATIONAL UNIVERSITY
A Member of The Texas A&M University System

**Office of the Provost and Vice President
for Academic Affairs**

April 20, 2009

Dear Lamar Bruni Vergara (LBV) Research Conference Participants,

I would like to welcome each of you to the first Lamar Bruni Vergara Student Research Conference. This is an exciting time for all of us as we celebrate the research and scholarly/creative activity of our undergraduate and graduate students and their faculty mentors. This is indeed a new era for Texas A&M International University (TAMIU) and the Laredo community. TAMIU is entering a new stage in its development as it seeks to position itself as a premier international research institution. This Conference is an example of how TAMIU continues to develop rich educational and research opportunities for its students and faculty.

The Lamar Bruni Vergara Trust is funding this Student Research Conference and deserves our appreciation and thanks. For years, the Lamar Bruni Vergara Trust has recognized the value of the educational opportunities that TAMIU provides, and has funded many university-wide projects and events that have sought to directly assist Laredo students. This year, the Lamar Bruni Vergara Trust has elected to further invest in the talents of TAMIU graduate students with a sizable monetary donation that will allow these students to begin to develop a passion for research, scholarly and creative activity, present the findings of their work, and promote the production of new knowledge in both a regional and international context.

Known for their intellectual curiosity, academic acumen, and cultural richness, TAMIU students have excelled at distinguishing themselves as being among some of the strongest academically prepared students in the Texas A&M University System. For the next four days, you will have the opportunity to hear and see student presentations that I feel confident you will find to be intellectually stimulating, academically sound, and that play a significant role in both the production of new knowledge as well as the advancement of knowledge in each respective field.

It is my sincere wish that each of you enjoy the next four days but more importantly that you grow intellectually. It is also our hope that this year's event will mark the beginning of what will become one of the Texas A&M University System's most widely recognized student research conferences.

Sincerely,

Pablo Arenaz, Ph.D.
Provost and Vice President for Academic Affairs

Thank you to the Lamar Bruni Vergara Trust

For the last two decades, the Laredo community has enjoyed the exquisite privilege of witnessing the creation, establishment, and development of a local institution of higher education that enjoys membership in the State of Texas's prestigious and world renowned research community known as The Texas A&M University System. As Texas A&M International University (TAMIU) continues to thrive with rich educational opportunities that it has provided to its students for the last two decades, TAMIU is now endeavoring to promote a vigorous research program.

For this and many other reasons, we would like for you to recognize and thank the Lamar Bruni Vergara Trust for funding this research conference.

Both graduate students and those students aspiring to become graduate students have been invited to participate. The best graduate students will be specially recognized with cash prizes at the Closing Awards Ceremony supported by the Lamar Bruni Vergara Trust. Additionally the best undergraduate students will be recognized with prizes supported by the Office of the Provost, with the hope that in a few years they too will be in graduate school preparing to be the leaders of our future.

It is also our hope that this conference will continue for many years to come, recognizing our graduate students and preparing our undergraduate students to enter into graduate school.

TAMIU please join us in thanking the Lamar Bruni Vergara Trustees: J.C. Martin III, and Judge Solomon Casseb Jr.

Conference Committee Members:

Steering Committee:

David L. Beck, Conference Co-Chair
Whitney R. Bischoff, Nursing Liaison
Jeffrey M. Brown, Dean of Graduate Studies and Research
Jorge Brusa, Committee Member
Christopher J. Ferguson, Committee Member
Hugo Luís García, Committee Member
C. Miki Henderson, Conference Program
Tongdan Jin, Committee Member
Diana Linn, Publicity
Lynne L. Manganaro, Publicity
J. Agustín Martínez-Samos, Committee Member
Jacqueline Mayfield, Conference Co-Chair
Milton Mayfield, Conference Co-Chair
Ananda Mukherji, Committee Member
Fernando G. Quintana, Committee Member
Alfredo Ramírez, Jr., Conference Co-Chair

Entertainment:

Susan Berdahl
Bede Leyendecker
Gilberto Soto

Equipment:

TAMIU Office of Instructional Technology

Special thanks for their contributions to the conference:

Candy Hein and the Office of Institutional Advancement
El Mesón de San Agustín
Hollywood Theaters
Johnny Carino's
Montana Mike's
Olive Garden
Red Lobster
Rudy's
Suzanne Hansen-Alford and staff of the Office of Graduate Studies and Research
TAMIU Athletics Department
TAMIU Campus Bookstore
TAMIU Office of Financial Aid
TAMIU Police Department
TAMIU Office of Recruitment and School Relations
Whataburger

Schedule of Events

Opening Session

Monday, 5:00-8:30 p.m.

Fernando A. Salinas Lecture Room (WHTC 111)

- Silverwind Ensemble
- “Doing Work that Matters: A Chicana in Academia” by Dr. Norma Cantú
- Classical Spanish Ballet

Piano Recital: Beethoven Piano Concerto No. 5 in Eb Major

Tuesday, 10:00-10:45 a.m.

Center for the Fine and Performing Arts Recital Hall

Pathways to the Doctorate, Dance and University Poster Session

Tuesday, 12:00-2:30 p.m.

Fernando A. Salinas Lecture Room (WHTC 111)

- Pathways to the Doctorate by Dr. Robert C. Webb
- Student Dance Presentations
- Poster Presentations

Student and Faculty Presentations

Tuesday 2:30-9:00 p.m.

See specific colleges for time and place.

Special Session

Wednesday, 12:00-1:30 p.m.

Fernando A. Salinas Lecture Room (WHTC 111)

- Implementation of Active Intervention Program Using Dietary Education and Exercise Training for Lowering Obesity by Dr. Suhko Lee
- TBA by Dr. Richard Hicks

Student and Faculty Presentations

Wednesday, 2:00-9:00 p.m.

See specific colleges for time and place.

Graduating Senior’s Art Exhibit and Reception

Thursday, 5:00-8:00 p.m.

CFPA Gallery

Closing Ceremonies

Thursday, 5:30-8:30 p.m.

Student Center 203

- The Girls with the Bodies Like Boys with Ferraris by Dr. Chris Ferguson
- TAMIU Classical Guitar Ensemble
- Community Reception
- Lamar Bruni Vergara Student Awards Ceremony

Special Speakers

Doing Work that Matters: “A Chicana in Academia” by Dr. Norma Cantú

During the opening session on Tuesday, Dr. Cantú will discuss her trajectory through academia from being a student at TAMIU to being a recognized author and scholar.

Biography: Dr. Norma Cantú, received her bachelor's and master's degrees from Texas A&I at Laredo and Kingsville, respectively, and her Ph.D. from the University of Nebraska, Lincoln. At Laredo State University, later renamed Texas A&M International University, she taught and served as chair and interim dean. She was a senior arts administrator with the National Endowment for the Arts in Washington, D.C. and was acting chair of the Chicano Studies Research Center at the University of California at Santa Barbara. Dr. Cantú has published articles on a number of academic subjects as well as poetry and fiction. Her publications on border literature, the teaching of English, quinceañera celebration and the matachines, a religious dance tradition have earned her an international reputation as a scholar and folklorist. She has co-edited four books and edited a collection of testimonios by Chicana scientists, mathematicians and engineers. Her award winning “Canícula: Snapshots of a Girlhood en la Frontera” chronicles her childhood experiences on the border. She edits the Rio Grande/Rio Bravo Culture and Traditions book series at The Texas A&M University Press.



Graduate School Presentation

Pathways to the Doctorate by Dr. Robert C. Webb, Interim Dean,
Office of Graduate Studies, Texas A&M University

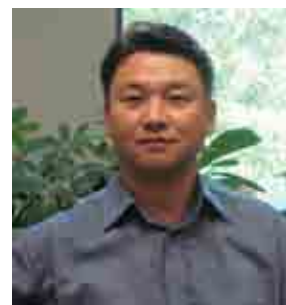
Dr. Webb will discuss graduate school admissions and funding opportunities like the Pathways to the Doctorate program, which creates funding opportunities for students who wish to pursue a doctoral degree at TAMU.



College of Education Scholar of the Year 2008 Presentation

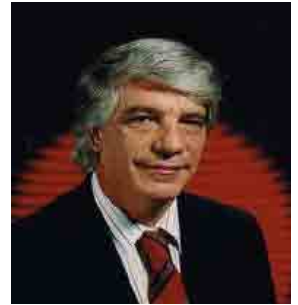
“Implementation of Active Intervention Program Using Dietary Education and Exercise Training for Lowering Obesity” by Dr. Suhko Lee

Dr. Lee will talk about prevalence of childhood obesity in Laredo and prospective intervention strategy including diet education and exercise.



A.R. Sanchez, Jr. School of Business Scholar of the Year 2008 Presentation

TBA by Dr. Richard Hicks



Texas A&M International University Scholar of the Year 2008 Presentation

The Girls with the Bodies Like Boys with Ferraris by Dr. Chris Ferguson
Dr. Ferguson will discuss the influence of evolution on differences in behavior between the sexes, including mating behavior and aggression.



Artistic Presentations

Aria from Cantata No. 201 “Aufgeblasne Hitze” J. S. Bach

by the Silverwind Ensemble

- Susan Berdahl, Director
- Rogelio Salazar, vocal soloist
- Szu-Ting Chou, keyboard
- Diana Saucedo, Verónica Tinoco, Victor Vedia, Noe Benavides, and Emily Pérez, flutists
- Noe Benavides, cello

Classical Spanish Ballet Performance of:

“La Negra Tomasa”	Lobato
“Baila María”	Alabina
“La Leyenda del Beso”	Sotouullo/Vert
“El Baile de Luís Alonzo”	Gimenez
“Andaluz”	El Torta
“Volare”	Gipsy Kings

- Bede Leyendecker, Director

Piano Recital of:

Beethoven Piano Concerto No. 5 in Eb Major

- Szu-Ting Chou
- Friedrich Gechter

Graduating Senior’s Art Exhibit

TAMIU Classical Guitar Ensemble Performance

- Gilberto Soto, director

University Poster Session

1. Student Piano Recital

Tuesday, 10:00 – 10:45

Center for the Fine and Performing Arts (CFPA) Recital Hall

Moderated by Friedrich Gechter

Szu-Ting Chou
(accompanied by
Friedrich Gechter).

Undergraduate
Senior Music

*Performance of Beethoven Piano Concerto No. 5
in Eb Major*

2. Student Dance Presentation

Tuesday, 1:00-1:30 pm

Fernando A. Salinas Lecture Room (WHTC 111)

Moderated by Dr. Fernando G. Quintana

Erica Matos
Elizabeth Flores
*Dancers: Elideth Zavala,
June Hinojosa,
Amy Vazquez,
Josue Pérez, and
Elizabeth Flores*

Graduate Dance

Escapist

The Lasting Effects of Child Abuse

3. Poster Session

Tuesday, 1:30-2:30 p.m. (Note- set up is at 11:30 – stand at your poster 1:30-2:30)

Fernando A. Salinas Lecture Room (WHTC 111)

Moderated by Dr. Fernando G. Quintana

Andrés A. Rubio

Undergraduate
Junior Pre-
engineering

Rates of Change: Position of a Falling Object

María E. Zamora

Undergraduate
Freshman Biology

*Modeling with Systems of Linear Equations:
Heat Conduction and Traffic Flow*

Sandeep Theeda

Graduate
Management
Information
Systems

Logic Gates

Sravan Kumar Madadi

Graduate
Management
Information
Systems

Trigonometry: Pythagorean Theorem

Luís Pérez-Milicua

Undergraduate
Sophomore Physical
Science

Centripetal Forces on Space Stations

Luís Duarte and Arturo
García

The Geodynamo Theory and How It Affects the Earth

Ricardo Medrano

Undergraduate
Sophomore Biology

Testicular Cancer: Chemotherapy Side Effects

Alexandra Reyes, Rosario
Garza, Marina Leal

Early College
High School Biology

Fine Arts Festival

Vince Martínez and
Robert Lee Gomez

Undergraduate
Junior Engineering

Black Holes

Susana Garza

Ph. D. Student
Educational
Administration

*Implementing the Ernest Educational Concept Method
at Jim Hogg County ISD*

Sylvia Martínez

Graduate
Educational
Administration

*Using Emotional Intelligence For High Quality
Decision Making*

Student Registration is Tuesday and Wednesday from 11:30 am to 7:30 pm in the Western Hemispheric Trade Center Lobby

3. Poster Session continued

José Pérez III, Guadalupe Cortinas	Ph. D. Student	Educational Administration	<i>Is a South Texas School District Technology Proficient In The 21st Century? A Plan of Action Based on a Self- Assessment Tool</i>
Liliana Portilla, Elias Alonzo III	Ph. D. Student	Educational Administration	<i>Approaches Towards Career and Technical Education as We Begin the Second Decade of the 21st Century</i>
Elsa Santellano	Undergraduate Sophomore	Nursing	<i>Exploring My Family's Health Practices</i>
María L. Coronado	Undergraduate Sophomore	Nursing	<i>Exploring the Origins of Health Beliefs of the Coronado's Family</i>
Saima Saavedra	Undergraduate Sophomore	Nursing	<i>The Great War Nursing</i>
Irma Guerra	Undergraduate Sophomore	Nursing	<i>My Heritage: The Impact of Culture in My Life</i>

A.R. Sanchez, Jr. School of Business

4. Health Management and Performance

Tuesday, 3:45-4:45 p.m.

Bob Bullock Hall (BH) 113

Moderated by Shaun Sexton

Roberto Martínez, Bibiana Díaz
and Rosalinda García

Da Huo

Ph.D. Student

Management

*Electronic Medical Records (EMRs),
EMR Systems and Quality*

*Agency Problems Analysis in
Medicare Reform of China*

Verónica Gomez-Vázquez,
Gabriela Dehoyos,
Heberto Ramírez,
Juan M. Ramírez III, Mayra A.
Regalado, and Cynthia Urbano

*Performance-Based Knowledge
Management in Hospital Setting:
Emergency Service Personnel's Role
in Transferring Tacit Knowledge*

Deissy M. Murillo

Graduate

Business
Administration

*A Case Study on Motivation Hygiene
Theory: How Can Motivation Hygiene
Theory be Applied in a Low Education
Environment and is Labor Intensive?*

5. Leadership and Motivation

Tuesday, 5:00-6:00 p.m.

Student Center (SC) 236

Moderated by Peerayuth Charoensukmongkol

José Luís Daniel

Ph.D. Student

Management

*Leadership and comparative
management*

Chaiwat Baimai

Ph.D. Student

Management

*Environmental Scanning of Top
Management Teams in New Firms
Transformational Leadership and its
Effects on Firm Performance through
Employee Engagement*

Shaun Sexton

Ph.D. Student

Management

*A Typology of Research Approaches to
the Human Resource Managers'
Competency Model Development*

Kaveh Moghaddam

Ph.D. Student

Management

Student Registration is Tuesday and Wednesday from 11:30 am to 7:30 pm in the Western Hemispheric Trade Center Lobby

6. Controversies in Recent U.S. Economic Policy

Tuesday, 6:15-7:15 p.m.

SC 236

Moderated by Dr. Pablo Camacho-Gutiérrez

FOR: James Turner, Oscar Pérez, Jessica Ortega, and María Salinas

AGAINST: Tatiana Ramos, Ignacio Flores and César Garza

Debate 1: Clinton Deficit Reduction Policy

FOR: Stephanie Vázquez, Abel Villavicencio, Adam Villavicencio, and María Chapa Angie Flores, Sabino González, Mario González and Guillermo Campos

AGAINST: Beth Hapton, Roy Ortiz, Alicia Vázquez and Alan Sánchez

Debate 2: Bush Tax Cuts Policy

Alan Greenspan Tenure

7. The Environment of Business

Tuesday, 7:30-8:30 p.m.

SC 236

Moderated by Dr. Jorge Brusa

Elizabeth Alejandro, Juan José Ramírez, Rocío Quiroga, Yolanda Vigil, Michelle González, Esteban Rangel and Feliciano García María Fernanda Zarate, Francisco Reyes, Ricardo Ramos, Tirso Morales and Marlinn Chong

An Unstable Economy

Alberto Barragán, Cindy García, Alex Madriaga, Aibar Suleimen, Verónica Hernández, Marcia García and Traci Meléndez

Lose Home After Lost Job

Jennifer Castillo and Angelita Flores

Undergraduate
Sophomore

Business
Administration

*Bank of America Acquires
Countrywide*

*Earn Thousands by Simply
Opening Your Mailbox*

8. Technology and Knowledge Management

Wednesday, 3:15-4:15 p.m.

BH 205

Moderated by José Daniel

Ashley Taylor, Yuri Robles and Joe Sánchez

*The Five Most Extreme Issues in
Information Technology*

Rene Prado, Nestor Canales, Roberto Martínez, Christine Rebori, Siobhan Rosales and Christopher Swan

*Knowledge Management within Texas A&M
International University's (TAMIU) Division
of Student Success*

Ingrid Benavides, Irving Hattem, Christy Martínez, Nora Guereca, Sandra Llano and Sophie Huet

*Conveying Knowledge to the Next
Generation*

Student Registration is Tuesday and Wednesday from 11:30 am to 7:30 pm in the Western Hemispheric Trade Center Lobby

9. Managing and Transitioning

Wednesday, 6:15-7:15 p.m.

SC 230

Moderated by Jacqueline Mayfield

María Gomez	Undergraduate Junior	Management Information Systems	<i>Financial Mergers</i>
Peerayuth Charoensukmongkol	Ph.D. Student	Management	<i>The Role of Emotional Intelligence During Organizational Transformation: How Change Agents Influence Employees' Openness to Change</i>

10. Social Responsibility, Economics, and Politics Moderated By

Wednesday, 7:30-8:30 p.m.

SC 230

Moderated by Chaiwat Baimi

Alejandra Avila	Undergraduate Sophomore	Marketing	<i>Social responsibility: contemporary marketing strategy</i>
San Juanita Rodríguez	Undergraduate Sophomore	Business Administration	<i>The Tax System</i>
Alejandra Lascurain	Undergraduate Junior	Economics	<i>Broad Latin American Economics 101</i>
Jennifer Castillo	Undergraduate Sophomore	Business Administration	<i>Interest Groups' Influence on Politics</i>

College of Arts and Sciences

11. Applied Statistics

Tuesday, 2:30-3:30 p.m.

BH 114

Moderated by Dr. Eduardo Chappa

Vanessa Ramos	Undergraduate Senior	Mathematics	<i>Divorce and Marriage Rates: Local vs. National Data</i>
Sonya Anzaldúa	Undergraduate Sophomore	Biology	<i>A Statistical Overview of the Service-related Activities by the Doctors Hospital of Laredo</i>
Cristobal Molina and Susana E. Suárez			<i>Sudoku</i>
Gabriela A. Díaz and Alberto Valdez			<i>Blackjack</i>

12. Images of Realities

Tuesday, 2:30-3:30 p.m.

BH 113

Moderated by Elia Adams

Maritza Morris	Undergraduate Freshman	History	<i>No Hope Left to Lose: A Look into the Lives of the Homeless</i>
Elizabeth Rubio and Aida Almanza	Early College High School	Communication Disorders	<i>Festival of Cultures</i>

Student Registration is Tuesday and Wednesday from 11:30 am to 7:30 pm in the Western Hemispheric Trade Center Lobby

13. Youth Today and Criminal Justice

Tuesday, 2:30-3:30 p.m.

Western Hemispheric Trade Center (WHTC) 125

Moderated by Dr. Mónica Muñoz

Melissa Aguayo	Undergraduate Senior	Psychology	<i>Attitudes Toward Education and Narcissism in Local Students: A Complete Investigation of the Reasons Behind the Attitudes in Younger Generations.</i>
Diana Carreón, Diana L. Carreon and Dae-Hoon Kwak	Undergraduate Junior	Criminal Justice	<i>Public Confidence in The Mexican Police</i>
María Fernanda Zarate	Undergraduate Sophomore	Psychology	<i>Media Influence on Sexual Behavior among Adolescents</i>
Janel Longoria	Graduate	Psychology	<i>The Application of Filial/Play Therapy to Hispanic Families</i>

14. Biological Statistics

Tuesday, 3:45-4:45 p.m.

BH 114

Moderated by Dr. Qingwen Ni

Diana D. Grace	Undergraduate Freshman	Psychology	<i>A Statistical Overview of Over the Counter Drug Abuse</i>
Christopher J. Gonzáles and Yuliana Alcaraz	Undergraduate Freshman	Biology	<i>The Impact of Natural Selection on the Evolutionary Process of Species</i>
Yuliana L. Alcaraz	Undergraduate Freshman	Biology	<i>The Study of Heat Shock Proteins and Adaptive Thermo Tolerance</i>

15. Forensic Psychology

Tuesday, 3:45-4:45 p.m.

WHTC 125

Moderated by Dr. Chris Ferguson

Kimberly D. Hill, Daniella C. Tijerina, Javier S. Marquez and Norma Arreola	Undergraduate Junior	Environmental Science	<i>Effects of Border Violence on Laredo and Nuevo Laredo</i>
Elizabeth Ramírez	Undergraduate Sophomore	Psychology	<i>Women and Forensic Psychology</i>
Edwin Martínez	Undergraduate Sophomore	Psychology	<i>The Nature of Pedophilia</i>

Student Registration is Tuesday and Wednesday from 11:30 am to 7:30 pm in the Western Hemispheric Trade Center Lobby

16. Laboratory Research

Tuesday, 5:00-7:15 p.m.

Lamar Bruni Vegara Science Center (LBVSC) 176

Moderated by Fernando Quintana and Ruby Ynalvez

Carina González, David Weisman and Adán Colón-Carmona (University of Massachusetts Boston)	Undergraduate Senior	Biology	<i>Synthesis of a Selection System for Directed Evolution Studies</i>
Yang Lee, Kyungshin Park and Sukho Lee	Graduate	Fitness and Sports	<i>Hispanic Female Elderly is of Particular Concerns for the Level of Physical Activity, Obesity, and Muscular Strength</i>
César Cardenas, Jr, Guofeng Gao, and Blaise Z. Peterson			<i>Altered Calcium Homeostasis in Diabetic Heart Rats</i>
Diana Mederos	Undergraduate Senior	Environmental Science	<i>Mortality and Reproductive Success of Daphnia Magna in Determining Sediment Toxicity of Manadas Creek, Laredo, TX.</i>
Kimberly D. Hill and Emily Benavides			<i>Effects of Urbanization, Industrialization, and Population Growth on Eutrophication</i>
Manuel Montes and Ruby A. Ynalvez	Undergraduate Junior	Biology	<i>The Use of the Tandem Inverted Repeat System to Screen Carbonic Anhydrases: RNAi Transformants in Chlamydomonas reinhardtii</i>
Paul Miranda, Eric Pérez, Melinda Portillo and Ruby A. Ynalvez	Undergraduate Junior	Biology	<i>Survey of the Presence of Lectin Activity in South Texas Plants</i>

17. Systems of Linear Differential Equations

Tuesday, 5:00-7:15 p.m.

WHTC 126

Moderated by Dr. Eduardo Chappa

Gabriel J. Carranza	Graduate	Mathematics	<i>Nonlinear Systems of Differential Equations: Dynamical Systems</i>
Clara Escalante	Graduate	Mathematics	<i>Equilibria in Nonlinear Systems of Differential</i>
Ricardo A. Guardiola	Graduate	Mathematics	<i>Global Nonlinear Techniques: Nullclines</i>
Dagoberto Guerrero	Graduate	Mathematics	<i>Nonlinear Systems of Differential Equations: Closed Orbits and Limit Sets</i>
Tomas Rodríguez	Graduate	Mathematics	<i>Nonlinear Linear Systems of Differential Equations: Applications in Circuit Theory</i>
Claudia Vargas	Graduate	Mathematics	<i>Nonlinear Linear Systems of Differential Equations: Applications in Mechanics</i>
Maribel Mitsui	Graduate	Mathematics	<i>Are Twin Primes Infinite?</i>

18. Mental Health

Tuesday, 5:00-6:00 p.m.

Fernando A. Salinas Lecture Room (WHTC 111)

Moderated by Dr. Bonnie Rudolph

Carolina Pellum	Undergraduate Sophomore	Psychology	<i>Alcohol and Genetics</i>
Karla Pruneda	Undergraduate Sophomore	Psychology	<i>Sex Differences of the Brain</i>
Karina C. Villalba	Undergraduate Sophomore	Biology	<i>Somatization Disorder</i>

Student Registration is Tuesday and Wednesday from 11:30 am to 7:30 pm in the Western Hemispheric Trade Center Lobby

19. Communication

Tuesday, 6:15-7:15 p.m.

Fernando A. Salinas Lecture Room (WHTC 111)

Moderated by Mike Herrera

Silvia Solis	Undergraduate Sophomore	Communication	<i>Influence of Communication on People's Reactions</i>
Alyson Martínez	Undergraduate Sophomore	Communication	<i>The Political Media</i>

20. Biology Around Campus

Tuesday, 7:30-8:30 p.m.

LBVSC 126

Moderated by Dr. Fernando Quintana

Eric Montalvo, Edna Valdez and David Beck	Undergraduate Senior	Biology	<i>Larval tick emergence on the TAMIU campus from 2005-2008.</i>
Jessica Pérez	Undergraduate Senior	Biology	<i>Tick activity in South Texas from 2005-2009</i>
Juan Orozco	Graduate	Biology	<i>Selected Meteorological Effects on the Questing Behavior of <i>Amblyomma Cajennense</i>.</i>
Christopher Kimmel, Rene Camacho and Christine Ramos	Undergraduate	Biology	<i>Patterns and Distribution of Mealy Galls in South Texas</i>

21. Earth and Space

Tuesday, 7:30-8:30 p.m.

WHTC 126

Moderated by Dr. Juan Hinojosa

Brenda Gutiérrez	Undergraduate Sophomore	Physics	Black Holes
Sandeep Theeda	Graduate	Management Information Systems	Google Ocean
Roel Peña and Pablo Cisneros			Dark Matter

22. Science of Everyday Life

Wednesday, 2:00-4:15 p.m.

SC 230

Moderated by Hari Mandel and Fernando Quintana

Nahyeli Plasencia	Undergraduate Sophomore	Biology	<i>Kingdoms of Living Things</i>
Keith Almeida	Undergraduate Sophomore	Biology	<i>Biological Importance of Organic Molecules</i>
Yahaira Cavazos	Undergraduate Sophomore	Biology	<i>Chemistry of Leaf Coloration in Plants</i>
Carolina Sánchez	Undergraduate Sophomore	Biology	<i>Organic Compounds That Make Common Spices Useful In and Out of the Kitchen</i>
José Alfredo Jiménez- Hernández and Laura Alejandra Dellano			<i>Synthesis of Monomers for Organic Light Emitting Polymers.</i>
Leonardo López and José Alfredo Jiménez- Hernández			<i>Synthesis of Monomers for Liquid Crystalline Polymers.</i>

Student Registration is Tuesday and Wednesday from 11:30 am to 7:30 pm in the Western Hemispheric Trade Center Lobby

23. Physics

Wednesday, 2:00-3:00 p.m.

BH 207

Moderated by Chihiro Oshima

Manuel Montes,
Brenda Arambula and
Sandra E. Prado

Assessment of Water Distribution Changes in Human Cortical Bone by NMR

Alissa González and
Carmen G. Cruz

The Characterization of Simulated and Functional Disuse on Mouse Bone by Nuclear Magnetic Resonance

Ryanne Chapman and
Allison Stein

String Theory

Luis Villarreal and
Dr. Chen-Han Sung

Optoelectronic Properties of Quantum Dots

24. Practical Applications of Physics and Engineering and Computer Sciences

Wednesday, 3:15-4:45 p.m.

BH 207

Moderated by Chen-Han Sung and Fuming Wu

Sofía Maldonado and
Juan Alberto Carrera

Discovering Roller Coasters

Fernanda Uribe and
Alejandro Ramírez

The Titanic and Archimedes' Principle

Fabian Canseco and
Guillermo Ramos

Highway Curves: Banked and Unbanked

Sravan Kumar Madadi

Graduate

Management
Information
Systems

A Revolution in Mobility

Andrés A. Rubio and
Sofía C. Maldonado

Topography of an Object: Detection and Display of Software and Hardware

Jorge Guerrero

Undergraduate
Junior

Mathematics

Peer to Peer Network; It's Not Just for Music

25. Applied Math

Wednesday, 5:00-6:00 p.m.

SC 230

Moderated by Firooz Khosraviyani

Roberto Arzola,
Michael B. Nussbaum and
Alicia G. Vázquez

For Sale By Owner

Itzel Hinojosa, Mario E.
Carmona, Patrice Hicks and
Jessica Sánchez-Williams

Is There Room for One More?

J Terrones, Javier Palizo,
Carolina Rodríguez, Alan
Gomez and Michelle Luna

A Study of Carbon Dioxide Emissions in North America

Abdul Nayeem, Imran Sai
Srinivas Sriparsa Sushanti Allu
and Sammanta Moreno

Smart Board

Student Registration is Tuesday and Wednesday from 11:30 am to 7:30 pm in the Western Hemispheric Trade Center Lobby

26. Health Sciences Presentations

Wednesday, 5:00-6:00 p.m.

SC 231

Moderated by Whitney R. Bischoff, DrPH, RN

Stephanie Gunnoe,
Marissa López, RN, María
Pelayo, Janet Arredondo
and José Hernández

Mercy Killing: Euthanasia Through the Nurse's Eyes

Angélica Rodríguez

Undergraduate
Sophomore Nursing

The Kickapoo

Edwin Rodriquez

Undergraduate
Junior Biology

Smallpox

27. The Power of Imagination

Wednesday 5:00-6:00 p.m.

Fernando A. Salinas Lecture Room (WHTC 111)

Moderated by Mike Herrera

Mario Martínez

Graduate English

The Clinic

Joe Molina

Graduate English

Axelorbes

Melissa Martínez

Undergraduate
Junior English

A Realm of Fantasy

Clarissa Moreno

Undergraduate
Senior Psychology

Openers

Melissa Durán

Creative Writing

28. Perspectives on US Political History

Wednesday, 6:15-7:15 p.m.

SC 231

Moderated by James Norris

Erica López

Undergraduate
Sophomore Political Science

America's Finest First Ladies

Sonia Mares

Undergraduate
Sophomore Political Science

*The Influence of President Johnson's
Great Society on America*

Alejandro Berrios

Early College
High School Political Science

A Common Misconception

29. Symbolism and the Impossibilities of Human Nature

Wednesday, 6:15-7:15 p.m.

Fernando A. Salinas Lecture Room (WHTC 111)

Moderated by Patricia González

Mario Martínez

Graduate English

A Tale from the Crypt: A Rereading of Washington Square
*"Nos han dado la tierra" y "Diles que no me maten" son
obras que muestran un perfil de la vida rural mexicana: La
muerte, la desesperanza, la desolacion y otros aspectos
en este acontecimiento social en la historia de Mexico: La
Revolucion*

Elia Adams

Ph.D. Student Hispanic Studies

Joe Molina

Graduate English

*Denial, Anger, Bargaining, Depression, and Acceptance:
Stages of Grief in Stephen Crane's "The Open Boat."*

Erin Pérez

Undergraduate
Sophomore English

Master of Symbolism: Ernest Hemmingway

Student Registration is Tuesday and Wednesday from 11:30 am to 7:30 pm in the Western Hemispheric Trade Center Lobby

30. Topics in History and Politics

Wednesday, 7:30 - 8:30 p.m.

SC 231

Moderated by Jerry Thompson

Maritza Morris	Undergraduate Freshman	History	<i>Walking Through the Auschwitz Blocks</i>
Karla García	Graduate	History	<i>Childbirth and the Making of Man-Midwifery in England, 1660-1770</i>
Joel Bazán-Gomez	Undergraduate Sophomore	Music	<i>Gay Hate Crimes in Texas</i>
Alejandro Berrios	Early College High School	Political Science	<i>A Solution to Immigration</i>

Senior Student Art Exhibit

Thursday, 5:00-8:00 p.m. (Judging is 4:30-5:00 p.m.)

CFPA Gallery

Moderated by Alma Haertlein

Aida Arandia	Undergraduate Senior	Art	<i>Senior Art Show Presentation</i>
Karen Martínez	Undergraduate Senior	Art	<i>Senior Art Show Presentation</i>
Zaira Bustillos	Undergraduate Senior	Art	<i>Senior Art Show Presentation</i>

Also presenting their artwork at the art show are: Kristina Gutiérrez, Armela Rea Mariano, Myra Martínez, Stephanie Rios, Christian Romero, Ilse Schaffler, Richard Tellez

College of Education

31. Emotional Intelligence: What Makes School Leaders Successful?

Tuesday, 2:30-3:30 p.m.

WHTC 126

Moderated by Patricia E. Uribe

Elma Almaraz	Graduate	Educational Administration	<i>Self-Esteem; a Component of Emotional Intelligence Channeled Through a Transformational Leader</i>
María Alicia Reyna	Graduate	Educational Administration	<i>The Effects of Emotional Intelligence on Developing Leadership Skills in Principals</i>
Sarah Gallegos García	Graduate	Educational Administration	<i>School Administrator's Impact In School Success Through Empathy</i>
Ana Cantú	Graduate	Educational Administration	<i>Emotional Intelligence: As It Relates to Comfort and the Relevance of a Successful School Administrator</i>

Student Registration is Tuesday and Wednesday from 11:30 am to 7:30 pm in the Western Hemispheric Trade Center Lobby

32. Instructional Leadership: Teacher Retention and Professional Development

Tuesday, 5:00-6:00 p.m.

SC 231

Moderated by George R. Potter

Elizabeth Greninger	Ph. D. Student	Educational Administration	<i>Teachers Perceptions of Administrator Support And the Impact on Teacher Retention</i>
Mayra Peña	Ph. D. Student	Educational Administration	<i>Leadership in Professional Development</i>
Sandra Navarro	Graduate	Educational Administration	<i>Students Efficacy</i>

33. Educational Policy Debates: NCLB, Highly Qualified Teachers, Rural Education and Minorities in Public Education

Tuesday, 6:15-7:15 p.m.

Student Center 231

Moderated by Dr. Patricia E. Uribe

Jaime G. Garza and Raul González Jr	Graduate	Educational Administration	<i>U.S. Acts and Laws That Made an Impact for Minorities in Public Education</i>
Rachael Green	Undergraduate Junior	Early Childhood Education	<i>National Politics and the No Child Left Behind Act</i>
Gerardo Villarreal	Graduate	School Counseling	<i>The No Child Left Behind Act of 2001 and the Hiring of Highly Qualified Special Education Teachers in Rural Communities</i>
Tessie Rodríguez and Pamela Balze	Graduate	Educational Administration	<i>What Happened to Recess?</i>

34. Leadership Issues Facing School Leaders: Stress, Motivation, and High School Drop-out Rates

Tuesday, 7:30-8:30 p.m.

Fernando A. Salinas Lecture Room (WHTC 111)

Moderated by Alan Seitel

Claudia Tovar	Graduate	Educational Administration	<i>Assertion and Leadership</i>
Cynthia Sánchez	Graduate	Educational Administration	<i>Stress and School Leadership</i>
Magdalena Contreras	Graduate	Educational Administration	<i>Intervention Strategies to Decrease High School Drop rates</i>
Angie Hernández and April Serna	Graduate	Educational Administration	<i>Drive Strength Within School Administration</i>

Student Registration is Tuesday and Wednesday from 11:30 am to 7:30 pm in the Western Hemispheric Trade Center Lobby

35. Teaching English Language Learners (ELLs): Strategies for Success

Tuesday, 7:30-9:00 p.m.

SC 231

Moderated by Humberto R. González

Olinda Santos	Undergraduate Sophomore	Early Childhood Education	<i>A Brighter Future for ELLs</i>
Nidia Zamilpa	Graduate	Early Childhood Education	<i>Teaching Language Minority Students Within the Content Areas</i>
Griselda R. Sandoval	Graduate	Early Childhood Education	<i>Biliteracy Development</i>
Lupita Balderas			<i>Bilingual Education: Model Programs</i>
Claudia M. López	Graduate	Early Childhood Education	<i>Effective Strategies in Bilingual Education</i>

37. Special Education: Speech Therapy, Autism, and the Role of the Media in Identity Construction

Wednesday, 3:15-4:15 p.m.

SC 120

Moderated by Candace Baker

Keri Shannon	Ph. D. Student	Educational Administration	<i>Perceptions of College Bound Students on College Entrance Exam Preparation during High School</i>
Sylvia Pérez	Undergraduate Sophomore	Communication Disorders	<i>Hidden Qualities: A Study With Laredo, Texas Speech Therapists</i>
Valerie Bautista	Undergraduate Sophomore	Communication Disorders	<i>Autism: Understanding for a Better Life</i>

38. Emotional Intelligence

Wednesday, 5:00-7:15 p.m.

SC 236

Moderated by Mary Petrón and Diana Linn

Karina Cantú	Graduate	Educational Administration	<i>Emotional Intelligence: The Effect on Decision Making</i>
Mario Alberto Leija Jr.	Graduate	Educational Administration	<i>Effects of Administrative Decision Making</i>
Jacqueline Hammond	Graduate	Educational Administration	<i>Time Management and Emotional Intelligence</i>
Alejandra Arteaga	Graduate	Educational Administration	<i>A Balance of Emotional Intelligence and Time Management as a Leader</i>
Cynthia Martínez- Medina	Graduate	Educational Administration	<i>Emotional Intelligence and Coping with Stress</i>
Edna Light and Mary Aguirre	Graduate	Educational Administration	<i>Emotional Intelligence and Assertion</i>
Lauro Garza	Graduate	Educational Administration	<i>Emotional Intelligence and Effective Leaders</i>
José Ojeda	Graduate	Educational Administration	<i>Empathy and Leadership</i>

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39. Pedagogical Effectiveness

Wednesday, 7:30-9:00 p.m.

Fernando A. Salinas Lecture Room (WHTC 111)

Moderated by Diana Linn

Jessica Zamarripa	Graduate	Curriculum and Instruction	<i>Dance that Matters: Teaching Academics Through Dance</i>
Alejandra Medina	Graduate	Curriculum and Instruction	<i>An Action Plan to Improve School Readiness</i>
Patricia Castillo and Priscilla Leija			<i>Meeting the Needs of Struggling Readers</i>
Alfredo Pérez	Graduate	Educational Administration	<i>A Comparative Study of the Impact of a Chem-Bridge Program with Advanced Placement Programs on High School Learner Success</i>

40. School Counseling: Emerging 21st Century Issues

Wednesday, 7:30-9:00 p.m.

SC 236

Moderated by Trace Pirtle

Anna Díaz	Graduate	School Counseling	<i>Issues on Cyberbullying and How School Counselors can Help</i>
Alejandra Soto	Graduate	School Counseling	<i>Sibling Rivalry</i>
Sylvia Garza	Graduate	School Counseling	<i>Implementing the National Standards and the ASCA Model</i>
Damaris I. Juarez	Graduate	School Counseling	<i>Art Therapy</i>
María Ibarra	Graduate	School Counseling	<i>How Counselors Can Help Enhance Student's Academic Motivation</i>

College of Nursing and Health Sciences

Health Sciences Presentations

Wednesday, 5:00-6:00 p.m.

SC 231

Moderated by Whitney R. Bischoff

Stephanie Gunnoe, María Pelayo, Janet Arredondo and José Hernández			<i>Mercy Killing: Euthanasia Through the Nurse's Eyes</i>
Angélica Rodríguez	Undergraduate Sophomore	Nursing	<i>The Kickapoo</i>
Edwin Rodriguez	Undergraduate Junior	Biology	<i>Smallpox</i>



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