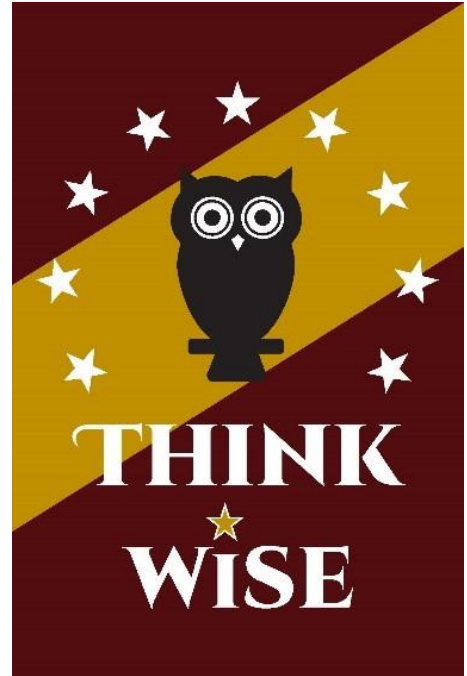


Wise
Women in Science and Engineering

TEXAS  STATE[®]
COLLEGE OF SCIENCE
AND ENGINEERING



2018 Conference
March 2, 2018

TEXAS  STATE[®]
UNIVERSITY
The rising STAR of Texas



Welcome to WiSE 2018

Dear WiSE Conference Friends:

On behalf of the organizing committee, I am pleased to welcome everyone to the 2018 Women in Science and Engineering Conference held by the College of Science and Engineering at Texas State University. We are here to celebrate STEM as a community that embraces diversity and inclusion in all academic and professional ranks and respects women in science and engineering as an important facet of this diversity.

One hundred years ago, inclusion was not a given as many academic technical programs did not admit women. Doors opened as time progressed, but still the numbers of women in these programs remained small. Just forty years ago, when I was an undergraduate, I found myself to be the only woman in all of my advanced physics classes, and it is not surprising as I was the third woman in the history of the college to receive a degree in physics. Today, women have a stronger representation in technical fields but are still a minority in many cases. For example, in 2015, only approximately 20% of the bachelors and doctorate degrees awarded in physics in this country were awarded to women. As a minority of any kind, it can be easy to feel alone and a lack of a supporting community. A feeling of being alone can turn away a talented person with the potential to make great contributions in STEM fields. We hope you will join us in "waving the flag" for WiSE 2018 – we welcome you into our proud and supportive community in the College of Science and Engineering at Texas State University!

This year, our vision and hope for the WiSE conference is to bring together supporters of diversity and inclusion of all people in STEM fields to share our experiences and celebrate our community. Please enjoy the exciting presentations from outstanding industry professionals and accomplished academics, as well as our student research poster session and fun exposition of hands-on science!

Thank you for coming! Glad you are here! Please enjoy the day!

A handwritten signature in black ink that reads "Susan Holtz".

Susan Holtz, Ph.D.
Physics Department
Chair, 2018 WiSE Conference Leadership Team
Texas State University





2018 WiSE - Boeing in the Spotlight



Please help us extend a special thank you to Boeing for generously sharing the time, talent, and expertise of our six Boeing speakers for WiSE 2018...

...and with wholehearted appreciation to Boeing's Robert Bardwell – a Texas State alumni and 2016 TXST Young Alumni Rising Star – for his support of WiSE 2018!

Robert Bardwell

Boeing Defense, Space and Security
Space and Missile Systems Engineering – Sr. Manager

Opening Speaker

Katie Gonzalez, Propulsion Analyst, Space Launch Systems Program

Boeing in the Spotlight Speakers

Michelle Barber, Electrical Design and Integration Technical Lead

Helen Biller, Engineering Manager, Propulsion Technology Team

Sheila Sharp, Director of Mission Assurance, Defense, Space & Security Division

Diana Talley, Project Engineer, Boeing 737 Airplane Integration Office

Casey Thompson, Integrated Planning and Scheduling Manager, Boeing GMD



2018 WiSE Conference Leadership Team

Susan Holtz, Texas State University - 2018 WiSE Conference Chair

Joyce Anderson, Texas State University
Glynda Betros, Texas State University
Yihong Chen, Texas State University
Wendi David, Texas State University
Dana Garcia, Texas State University
Jennifer Irvin, Texas State University
Jennifer Jensen, Texas State University
Maureen Lemke, Texas State University
Susan Romanella, Texas State University
Toni Sauncy, Texas Lutheran University
BJ Spencer, Texas State University
Margaret Taylor, Texas State University
Sunni Taylor, Texas State University
Barbara Vansant, Texas State University

So very
THANKFUL

2018 WiSE Conference Sponsors

With our deepest appreciation for your support of our conference!

College of Science and Engineering, Office of the Dean
Center for Diversity and Gender Studies
Department of Biology
Department of Chemistry & Biochemistry
Department of Computer Science
Department of Geography
Department of Engineering Technology
Department of Mathematics
Department of Physics
Ingram School of Engineering
Materials Science, Engineering, & Commercialization Program
Texas State University Step Up for State Donors
Women's Giving Circle



2018 WiSE Conference Schedule

8:00 am - 9:00 am (LBJSC Ballroom)

Continental Breakfast

9:00 am - 9:15 am (LBJSC Ballroom)

WiSE Welcome & Icebreaker

Susan Holtz, Chair, 2018 WiSE Conference

9:15 am - 9:50 am (LBJSC Ballroom)

Opening Speaker

Katie Gonzalez, Propulsion Analyst, Boeing

9:50 am - 10:00 am

Break

10:00 am - 11:35 am (LBJSC Ballroom)

Boeing in the Spotlight, team of panelists

Michelle Barber, Electrical Design and Integration Technical Lead

Helen Biller, Engineering Manager, Propulsion Technology Team

Sheila Sharp, Director of Mission Assurance, Defense, Space & Security Division

Diana Talley, Project Engineer, Boeing 737 Airplane Integration Office

Casey Thompson, Integrated Planning and Scheduling Manager, Boeing GMD

..... followed by Q&A open forum!

11:35 am - 1:15 pm (LBJSC Ballroom)

Luncheon, WiSE Scholarship Awards, Keynote Address

Ginny Catania - Research Scientist at the Institute for Geophysics and Associate Professor, Jackson School of Geosciences, University of Texas at Austin

1:15 pm - 1:30 pm

Break

1:30 pm - 3:00 pm

Concurrent WiSE Sessions

WiSE Research Poster Session (LBJSC Ballroom)

WiSE EXPO (LBJSC Rooms #3-3.1; 3-5.1; 3-9.1; 3-10.1; 3-12.1)

1:30 pm - 2:15 pm & 2:15 - 3:00 pm (LBJSC Room #3-13.1)

WiSE Workshop for high school students "Be Fearless – Shaping Your Future Self"

Susan Romanella, Director, NSF H-LSAMP Scholars Program, College of Science and Engineering

Texas State Undergraduate Students: **Ananda Diener** (chemistry); **Laura Godinez** (computer science); **Ivianne**

Tompkins (industrial engineering)

3:00 pm - 4:00 pm (LBJSC Ballroom)

WiSE Communication & Negotiation Skills Seminar

Kelly Nash, Associate Professor of Physics, University of Texas at San Antonio

4:00 pm - 4:15 pm (LBJSC Ballroom)

Announcement of People's Choice Award Winners for the WiSE Poster Session, EXPO, and Selfie Celebration

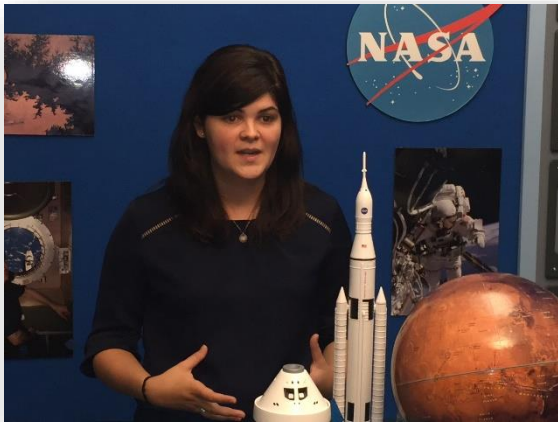


*Registration
check-in
opens at
7:30 am!*

▪ This information is available in alternate format upon request from the Office of Disability Services.



2018 WiSE Speakers



2018 WiSE Opening Speaker - Katie Gonzalez

Katie Gonzalez is a Propulsion Analyst for the Boeing Company working on the Space Launch System (SLS) program, the next rocket to lead us to Mars and beyond. She joined the Boeing Company as an intern on the Space Shuttle Program in 2007 and continued working on the Shuttle Program through the end of the program. In her role as a propulsion analyst, she is part of the team designing the Main Propulsion System (MPS) hardware and operations for the SLS rocket.

Katie graduated from Worcester Polytechnic Institute with a B.S. in Mechanical Engineering and concentration in Aerospace Engineering in 2008. After receiving her undergraduate degree, she went on to complete an M.S. in Mechanical Engineering from University of Houston in 2010.

Katie, a native Texan, is passionate about encouraging young students to continue their education. She mentors interns and new employees as well as participating throughout the year in NASA outreach webcasts to promote STEM.

2018 WiSE Keynote Speaker - Ginny Catania

Dr. Ginny Catania holds a joint-appointment as a Research Scientist at the Institute for Geophysics and as an Associate Professor in the Department of Geosciences at the University of Texas at Austin. Dr. Catania is a geophysicist who is passionate about uncovering how fast - and why - the ice sheets are rapidly changing and what potential impacts might be, even to folks in Texas. Dr. Catania has led dozens of expeditions to Antarctica and Greenland where she and her team would camp for months collecting data. Dr. Catania received her Ph.D. in geophysics from the University of Washington in 2004, and she has been part of UT since 2005. She has published over 50 peer-reviewed publications in glaciology and continues to pursue new directions in her field to meet the challenges presented by climate change in the polar regions.

Dr. Catania hails from Canada and sometimes wonders how she ended up in a state with no glaciers at all. She is an only parent to six-year old twins, one with special needs, and has become skilled at time management and multitasking. Dr. Catania is an enthusiastic advocate for work-life balance, increasing the diversity of voices in STEM fields, and climate change policy.





2018 WiSE Speakers



2018 Boeing in the Spotlight Speaker - Michelle Barber

Michelle Barber supports the Space Launch System Chief Engineer's Office as the technical lead for electrical design and integration. Located in Huntsville, AL, she also supports design integration for the Ground Based Strategic Deterrent Program. Barber is a Boeing Designated Expert in the Wire Design, Installation and Integration Community. She has held a variety of positions at Boeing since joining the company in 2007 - work that ranged from assignments in missile defense and commercial airplanes operations, as well as space programs. The work has taken her around the country, from New Orleans to Fort Greely, Alaska and provided a broad range of engineering experiences.

Barber holds a B.S. in Electrical Engineering from the University of Alabama in Tuscaloosa, and an M.S. in Aerospace Engineering from UA.

She enjoys flying as a private pilot, long-distance running, and attending UA football games.

2018 Boeing in the Spotlight Speaker - Helen Biller

Helen Biller currently works for Boeing Commercial Airplanes (BCA), as the Engineering Manager for the Propulsion Technology Team.

She has previously held management positions in BCA Propulsion on the 737 MAX and 777X Development Programs and for the Propulsion Safety and Airworthiness team. Prior to that, Helen supported the 777 propulsion system in revenue service, working with airlines around the world from 2001 to 2012. Before joining the Boeing Company, Helen worked for 19 years at Rolls-Royce, plc, in a number of engineering roles, designing, testing and supporting aero-engines for commercial and military aircraft. She graduated with a Bachelor's Degree in Aeronautical Engineering and Design from Loughborough University of Technology, in the UK in 1983 and has been a member of the Royal Aeronautical Society and the European Engineering Council since 1990. Outside of work she has raised three children, competed in and coached national level track and field, mountaineered around the world, and currently has a small horse facility at her home near Seattle, WA.





2018 WiSE Speakers



2018 Boeing in the Spotlight Speaker - Diana Talley

Dr. Diana Talley is a Project Integration Manager with Boeing's 737 Airplane Integration Office since 2014. In this role, she manages multidisciplinary teams driving high profile airplane level projects for the 737NG and 737MAX Program.

Previously, Dr. Talley was a Project Engineer with Boeing Commercial's Product Development Technology Integration Organization and was the Principal Investigator for the Advanced Adaptive Wing in 2014 and Adaptive Trailing Edge in 2013. For her work during 2013-2014, she received the AIAA Pacific Northwest Section's Young Engineer of the Year Award. Dr. Talley started with Boeing as a conceptual aircraft designer for Boeing Research and Technology in 2008. In this role, she supported multiple DARPA proposals/projects as well as Boeing Commercial and Military Product Development programs. In 2011, she was a lead on a proprietary project that received a Phantom Works Special Innovation Award.



2018 Boeing in the Spotlight Speaker - Casey Thompson

Casey Thompson is the Boeing Ground-based Midcourse Defense (GMD) Integrated Planning and Scheduling Manager. In this capacity, Casey leads and manages a diverse team of Boeing professionals to develop and maintain the program's Integrated Master Schedule and to facilitate the program's change management processes. Prior to this opportunity, Casey was the Systems Engineering Integration and Test Design Synthesis manager serving the Space Launch System program. Casey led and managed a team of professionals performing Computer Aided Design Integration, Technical and Drawing Quality Check, Human Engineering, Electromagnetic Effects, Thermal Protection System Integration, and Mass Properties. In this assignment, Casey earned a Silver Snoopy Astronauts' Personal Achievement Award as well as the Region H John Van Gels Award for implementation of a rapid product development process intended to control physical and functional interfaces to enable parallel production readiness and design release. Casey joined Boeing in 2008 as a Materials and Processes Engineer supporting the former Ares program.

Casey holds a Bachelor's degree in Chemical Engineering from the University of Alabama in Huntsville as well as a Master's in Business Administration with a concentration in Management from the University of North Alabama.



2018 WiSE Speakers



2018 Boeing in the Spotlight Speaker - Sheila Sharp

Sheila Sharp is a Boeing Chief Engineer for the Ground-based Midcourse Defense (GMD) program.

For over 21 years, Sheila has served Boeing and its customers. Her current position is the Chief Engineer for the Ground-based Midcourse Defense (GMD) program. In this role, she responsibility for all technical aspects of the system development and fielded system. In her prior position, Sheila served as the Director of Mission Assurance for all programs within Boeing Defense, Space and Security (BDS) portfolio. Sharp was responsible for sustained mission success through pro-active improvement on program execution, capitalizing on early technical risk identification and mitigation. Engineering content of this role included military and tactical aircraft safety, environmental engineering, and system safety for these programs. Prior to this role, Sharp served as the senior leader for Boeing Space Launch System (SLS) Systems Engineering, Integration and Test (SEIT) team, responsible for the requirements, design, verification and design certification of the SLS Core and Exploration Upper Stages. Boeing is responsible for the design, development, test, production and integration of the cryogenic stages and avionics for NASA's new heavy-lift rocket.

Since graduating with a bachelor's degree in metallurgical engineering from The University of Alabama in 1996, Sharp acquired broad technical expertise through product development, proposal development and management experience including engineering, program management, system integration, product design, test, analysis, manufacturing and operations. She began her career in 1991 as a trainee in manufacturing and process engineering with NASA's Marshall Space Flight Center in Huntsville, Alabama. Her first job with Boeing in Huntsville started in 1996 as an engineering leader on the International Space Station project where she was recognized as an expert in fluid system design, assembly and installation.

Sharp became a satellite systems engineering leader with Boeing in 2001, leading work on Spacecraft Propulsion System Installation and Composite Structures. In 2005, Sharp became the systems engineering manager for Missile Defense Systems, responsible for analyzing defense program systems. In 2009 she began working on heavy-lift rockets, and eventually managed Core Stage Design and Integration IPT for the SLS predecessor rocket, guiding physical design and integration of core stage.



2018 WiSE Speakers



Communication & Negotiation Skills Seminar

2018 WiSE Session Speaker – Kelly Nash

Dr. Kelly Nash is an Associate Professor of Physics at the University of Texas at San Antonio (UTSA). Her work focuses on synthesis and characterization nanomaterials and their fundamental interaction with biological systems from the molecular to cellular level and also includes understanding the combined effects of nanoparticles and electromagnetic fields for manipulation and control the biophysics of single cells. In 2015, she was awarded the Air Force Office of Scientific Research Young Investigator Program award for the research efforts in biophysics.

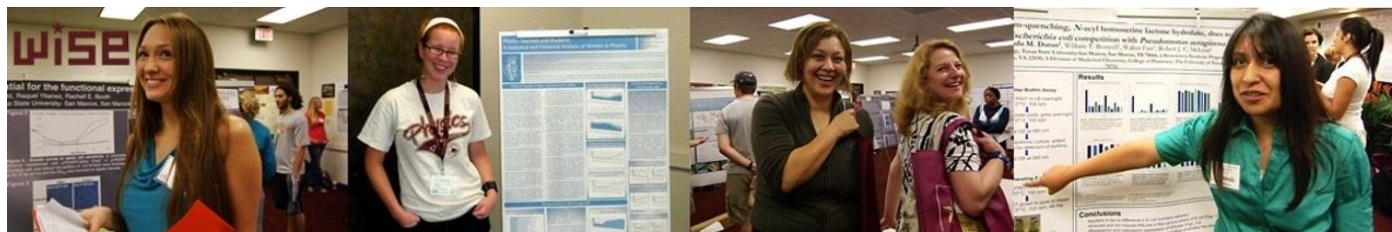
Dr. Nash is committed to recruiting minorities, women, and first-generation college students into physics careers through providing them with research experiences in the laboratory. In addition to advising doctoral students, she has mentored students from high school through undergraduate levels. Since joining the faculty at UTSA, she has served as advisor to the Society of Physics Student chapter; working to help students gain research experiences and helping them apply to REU programs. She also is an advocate for involving students in research at an early stage and often. Over the last 6 years, she has consistently served as a research mentor to local high school students through programs such as the San Antonio Pre-Freshman Engineering Program (SA-PREP), American Chemical Society Project SEED, and community college students from the Alamo Colleges. For these efforts, she has been recognized by her university and local community colleges.

Dr. Nash has co-organized meetings which engage students; including the annual San Antonio Nanotechnology Forum (SANTF) conference at UTSA and the 2016 American Physical Society sponsored Conference for Undergraduate Women in Physics (APS CUWiP) hosted at UTSA/Southwest Research Institute. She currently serves as the chair-elect for the national organizing committee for APS CUWiP and as an APS Professional Skills Development Seminar leader.

Dr. Nash received her Ph.D. in Physics from the University of Texas at San Antonio. She holds a B.Sc. in Physics from Dillard University and a M.Sc. in Applied Physics from University of Michigan, Ann Arbor.



2018 Research Poster Session



1. The Effect of Adhesion Layer Morphology on the Resultant Roughness of Ultra-flat Thin Gold Films Evaporated on a Silicon Substrate

*Krina Mehta, Joyce Anderson, Brian Samuels, Anjani Chaudhary, Alex Zakhidov**

2. Conducting Research from Small University Observatories: Investigating Exoplanet Candidates

*Kimberly Moreland, Blagoy Rangelov**

3. Net-Zero Carbon Production-Inventory Planning Considering Uncertain Demand Responses

*Vinod Kumar Subramanyam, Clara Novoa, Tongdan Jin**

4. Anti-Reflection Coating (ARC) for Flexible Devices by Plasma Enhanced Chemical Vapor Deposition (PECVD) Technique

*Mahmuda Akter Monne, Zaid Almusaied, Dalim Mia, Jagdish Khanal, Alexander Zakhidov, Maggie Yihong Chen**

5. Mercury Levels in Sashimi Purchased in Central Texas: Impact of Seafood Mislabeling

*Meaghan McCormack, Stephen F. Harding, Taylor R. Gold Quiros, Stacey L. Britton, Kristyn D. Cunningham, David Rodriguez, Jessica Dutton**

6. Mercury Levels in Game Fish from the Guadalupe River, Texas

*Taylor Gold Quiros, Clint Robertson, Jessica Dutton**

7. Stormwater and Non-Point Source Contaminants in Sessom Creek, San Marcos, Texas

*Dalila Loiacomo, Weston Nowlin, Gabrielle N. Timmins, Benjamin Schwartz**

8. Preliminary Spitzer Study of the Orion Nebula Cluster

*Michael Sanchez, Blagoy Rangelov**

9. Mercury Accumulation in Texas Marine Fish and Invertebrates

*Kristyn Cunningham, Jessica Dutton**

10. Trace Element Concentrations in the Freshwater Mussel *Amblema plicata* from the Guadalupe River

*Stacey Britton, Clint Robertson, Astrid Schwalb, Jessica Dutton**

11. Preventing Failure and Catastrophe in Precision Farming System Utilizing Failure Modes and Effects Analysis (FMEA)

*Elizabeth Alvizo, Riley Horner, Bahram Asiabanpour**

12. Engineering Approach Used in Hydroponics Designs and Automation

*Riley Horner, Elizabeth Alvizo, Bahram Asiabanpour**

13. Linking the Local Climate Zones and Land Surface Temperature to Investigate the Surface Urban Heat Island, a Case Study of San Antonio, Texas, U.S.

*Chunhong Zhao, Jennifer Jensen**



2018 Research Poster Session



14. What Are the Functions of Proof in Introduction to Proof Textbooks?

*Elizabeth Hewer, Kate Melhuish**

15. Potential Effects of Hantavirus Infection on Activity Patterns of *Sigmodon hispidus*

*Kristin Dyer, Matthew T. Milholland, Iván Castro-Arellano**

16. Dynamical Mass of the Exoplanet Host Star HR 8799

*Aldo Sepulveda, Brendan Bowler**

17. Probing the Role of Conserved Sequence Motifs in Plant and Vertebrate LARP6 Proteins

*Chelsea Toner, Lindsay Chovanec, Corina Foster, Jessica Foster, Courtney Otte-Petrill, Francisco Betancourt, Cécile Bousquet-Antonelli, Karen A. Lewis**

18. Electrospun Electroactive Polymer Nanocomposites for Photocatalysis

*Mariana Ocampo, Kelli Burke, Jennifer Irvin**

19. Thermoacoustic Refrigerator Project

*Mohamed Sghari, Zaid Almusaied, Alec Chamberlain, Bahram Asiabanpour**

20. Implementing Best Practices and Facing Facilities Realities: Creation of a New University Makerspace

*Madeline Jennings, Araceli Ortiz, Shauna Smith, Kimberly Talley**

21. Synthesis and Applications of ProDOT-Based Monomers and Polymers

*Kelli Burke, Shiva Rastogi, Alyssa Parsons, Serra Holthaus, Mariana Ocampo, Jacob Frazer, Jose Garcia, Jennifer Irvin**

22. How Diagrams Are Leveraged in Introduction to Proof Textbooks

*Michael Abili, Elizabeth M. Hewer, Kate Melhuish, Kristen Lew, Robert Sigley**

23. Design of Extended Conjugation Monomers for Tailored Polymer Electronic Properties

*Marisa Snapp-Leo, Steven Gralinski, David Hebert, Travis Cantu, Jamie Carberry, Jennifer Irvin**

24. Exploring Relationships Between Engagement and Views of Using Nature to Teach Science

*Sara Salisbury, Kristy Daniel**

25. Hexiwear IoT Smart Baby Monitor

*James Lopez, Burak Zeybek, Roberto Deanda, Jordan Walker, Maggie Yihong Chen**

26. Scalable Single Step Perovskite Deposition Technique for Optoelectronic Device Fabrication

*Mehedhi Hasan, Swaminathan Venkatesan, Junyoung Kim, Nader R. Rady, Sandeep Sohal, Eric Neier, Yan Yao, Alex Zakhidov**



2018 Research Poster Session



27. Relationships Between Socioeconomic Categories and Health in the United States

*Elaine Y. Chu, Briana T. New, Melinda V. Rogers, Kate Spradley**

28. Employing Machine-Learning Methods to Study Young Stellar Objects

*Nicholas Moore, Blagoy Rangelov**

29. Modelling of High-Performance Servers Using Benchmarking Analysis

*David Johnson, Damian Valles**

30. Testing Acoustic Deterrents for Reducing Bat Fatalities at Wind Turbines in South Texas

*Sara Weaver, Cris D. Hein, Thomas R. Simpson, Iván Castro-Arellano**

31. Two Highly Invasive Parasites Introduced into Central Texas Waters with Exotic Asian Snails: Distribution among Wild-caught and Caged Fish

*Allison Scott, David G. Huffman**

32. Evaluation of Cell Death Pathways Caused by Conductive Polymer Nanoparticle-Mediated Hyperthermia in Breast Cancer Cells

*Madeline Huff, James Tunnell, Jennifer Irvin, Tania Betancourt**

33. Vegetation Mapping: Comparison between Ground Based GPS Mapping vs Aerial Imagery Mapping Using GIS

*Diego Torres Martinez, Thom Hardy**

34. The Role of Quorum Sensing in the Development of *M. aeruginosa* Blooms

*Andrea Mertins, Gisella Lamas-Samanamud, Heather Shipley**

35. Developing a Passive Optical Fiber Daylighting System Using a Compound Parabolic Reflective Structure for Plant Growth

*Katherine Casey, Bahram Asiabanpour**

36. Mechanochemical Isomerization of Azobenzene PDMS Elastomers

*Heather Hansen, Yanju Lin, Stephen Craig, William Brittain**

37. Characterization of the Folding Intermediate of Truncated Thrombin Binding Aptamer

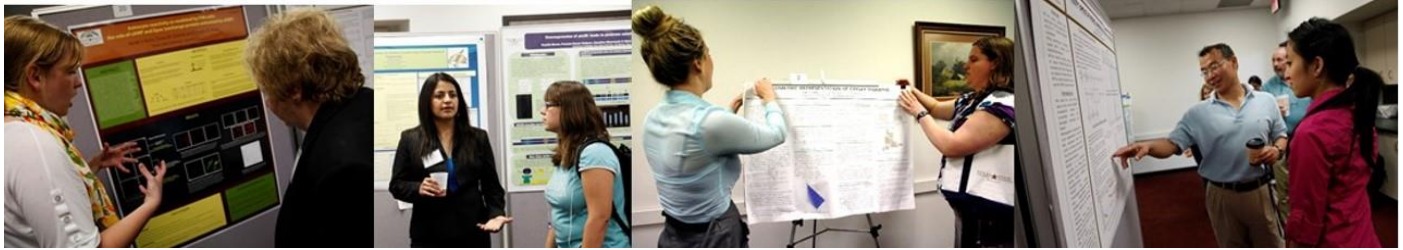
*Valerie Inmon, Wendi David**

38. Study of Power Conditioning System of Superconducting Magnetic Energy Storage

*Bhagyashree Mishra, Anup Kumar Panda**



2018 Research Poster Session



39. Power Consumption for Atmospheric Water Generation

*Natalie Ownby, Melina Mijares, Deola Aina, Mark Summers**

40. Effects of Maternal Stress on Striped Bass (*Morone saxatilis*) Larvae Malformations

*Isabella Jaime, David I. Prangnell, Michael D. Matthews, and Mar Huertas**

41. Developing a Virtual Reality Environment to Help Veterans Overcome Social Anxiety Symptoms

*Benjamin Garrard, Kevin Kim, Benjamin Munoz, Porter Chase, Seth Gutierrez, Vangelis Metsis**

42. Resource and Runtime Efficiency for Multi-Algorithmic Fibonacci Algorithm

*Samantha Coyle, Gregory LaKowski**

43. Azobenzene Conjugates with Elastin-Like-Polypeptides (ELPs) for Photo-Induced Solubility Changes

*Patrick Delgado, Shiva Rastogi, Madeleine Blumenthal, William Brittain**

44. Robot Learning for Object Handling in Unstructured Environment

*Cheng Cao, Heping Chen**

45. Low-Temperature Atomic Layer Deposition of Zirconium Oxide for Inkjet Printed Transistor Applications

*Mohi Uddin Jewel, Md Shamim Mahmud, Alex Zakhidov, Maggie Yihong Chen**

46. Telescope Mirror Fabrication with Equatorial Clock Drive Mounting

*Kayley Green-Tooney, Blagoy Rangelov**

47. Determining the Effect of MRP4 Knockout on Pigment Granule Position in Mouse RPE

*Dora Evelyn Ibarra, Thomas Mireles, Amanda Pattillo, Dana García**



2018 WISE EXPO EXHIBITORS

American Chemical Society, TXST

American Society of Mechanical Engineers, TXST

Association for Women in Mathematics, TXST

Astronomy Club, TXST

Biochemistry Society, TXST

H-LSAMP Scholars Program, TXST

HSI STEM IMPACT Program, TXST

IEEE – Institute of Electrical & Electronics Engineers, TXST

MAES – Latinos in Science & Engineering, TXST

NSBE – National Society of Black Engineers, TXST

Ornithological Society, TXST

SACNAS-Society for the Advancement of Chicanos/Hispanics & Native American in Science, TXST

San Marcos High School Robotics Team

Society of Physics Students, Texas Lutheran University

Society of Physics Students, TXST

Society of Plastic Engineers, TXST

Society of Women in Physics, TXST

Student Support Services STEM, TXST

Tri Beta Biology Honor Society, TXST



**WE HAVE 5 ROOMS with
EXPO ACTIVITIES!!!**

*Fun hands-on activities with
STEM...learn about our STEM
clubs and organizations....meet
our students...vote for your
favorite EXPO exhibitor!*



Remember to...



ote..for your favorites for the People's Choice Awards!

NOTES:



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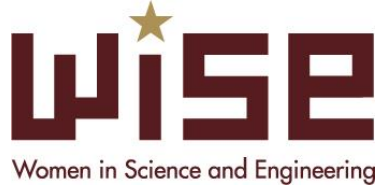
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WISE



Dr. Christine Hailey, Dean, College of Science and Engineering

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