

S. Kanetzky Engineering, LLC.

# Presidio I.S.D. T-STEM Engineering Camp

## 2016 Presidio ISD T-STEM Engineering Camp



**MARATHON MUSTANGS**  
MARATHON INDEPENDENT SCHOOL DISTRICT

S. Kanetzky Engineering, LLC (SKE) is partnering with Presidio and Marathon ISD to conduct the fifth annual T-STEM engineering camp. We are pleased to add Marathon ISD students to the camp this year.

SKE encourages participants to explore opportunities in science and engineering careers by exposing them to college visits, and guest speakers.

In addition, students will be able to explore actual facilities, companies, research centers and interact with professionals in

various scientific fields.

SKE also provides students with the opportunity to tour the University of Texas at Austin, the University of Texas at San Antonio, Texas A&M Corpus Christi, and Texas State University campus. At each university, the students will get to hear from the leaders of the school's engineering programs.

We hope that this program acts as a catalyst for these students to become lifelong learners and to enjoy careers in the fields of science and engineering.



## University Visits



The students in the program will visit with the engineering departments of the universities seen above.

## Facility Visits & Speakers



3M is fundamentally a science-based, global innovation company whose innovations have improved daily life for hundreds of millions of people all over the world. 3M produces thousands of imaginative products, and is a leader in scores of markets - from healthcare and highway safety to office products and abrasives and adhesives. Austin is the global headquarters of the 3M Electronics and Energy Business Group.



Pfluger is a Texas-based, award-winning architecture firm with extensive experience in educational facility planning, design, and construction administration. They are well-versed in the challenges facing educational institutions today. Pfluger's goal for every project, whether renovating an existing building or constructing a new campus, is to create learning environments that fully integrate the institution's mission, develop teaching spaces that enhance instruction and promote collegiality, and design schools that improve the overall quality of student life.



Austin Electrical Joint Apprenticeship Training Center offers a five year apprenticeship program that provides both classroom and on the job training for future Electricians in Central Texas.

### **Speaker: Jim Stricklan**

Jim Stricklan is Training Director of the Austin Electrical JATC Training Center in Austin, Texas. Jim was a Construction Technology Instructor at San Jacinto College, and has served as a Vocational Instructor, an Assistant Principal, and as a Principal in public schools. He began a Construction Technology Program at Austin Independent School District; the program has been instituted at one campus and AISD is building a Construction Technology Building that will house Electrical, Plumbing/Pipefitting, Welding, and Carpentry. He also serves on a number Construction Industry Advisory groups to promote synergy for the next generation.



The Harte Research Institute (HRI) for Gulf of Mexico Studies at Texas A&M University-Corpus Christi is the only marine research institute dedicated solely to advancing the long-term sustainable use and conservation of the world's ninth-largest body of water. Through its innovative "Harte Model" HRI integrates outstanding scientific research with public policy to provide international leadership in generating and disseminating knowledge about the Gulf of Mexico ecosystem and its critical role in the economies of the North American region.

### **Speaker: Dr. Larry McKinney**

Dr. McKinney received his doctorate from Texas A&M University in 1976. He is the Executive Director of the Harte Research Institute for Gulf of Mexico Studies at Texas A&M University Corpus Christi, leading an interdisciplinary team that integrates science, policy and socio-economic expertise to assure an economically and environmentally sustainable Gulf. Over the last five years Dr. McKinney chaired: the Ecosystem Assessment and Integration Team of the Gulf Alliance, the Flower Gardens National Marine Sanctuary Advisory Committee, and the Texas Sea Grant Science Advisory Committee. He is a member of NASA's SSC Applied Sciences Steering Committee and board member and past president of the Texas Academy of Sciences.



## Guest Speakers

### **Steve Kanetzky, P.E.– SKE**

Mr. Kanetzky graduated from the University of Texas at Austin in 1982 with a Bachelor of Science Degree in Electrical Engineering. Mr. Kanetzky is a Licensed Professional Engineer in the States of Texas. In addition to his managerial responsibilities as President of SKE, he continues in the role of Senior Electrical Engineer and Project Manager.

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### **Enrique Espinosa, E.I.T.– SKE**

Mr. Espinoza joined SKE in December of 2014. Mr. Espinoza has conducted Energy Star building reviews on over 15 buildings. Mr. Espinoza is a member of ASHRAE, A4LE, ASPE and AAFAME. Mr. Espinoza graduated UT San Antonio, B.S. Mechanical Engineering with a focus in Heat Transfer and Lean Manufacturing

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### **Andy Hall– SKE**

Mr. Hall has an Associate's Degree in Drafting from Austin Community College. He has worked at a Drafting and Electrical Design with engineering supervision on various commercial project types on such as: Data Centers, Shell Buildings, Tenant Finish Out Spaces, Kitchens, Small Gas Stations, Telecomm HUBS, Warehouses, a Recycle Center, Offices, Car Dealerships, and renovations at a Texas Ice Cream Maker. He currently works at SKE as an Electrical Designer.

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### **Dale Julson– SKE**

Mr. Julson graduated from Texas A&M in 2015 with a Bachelor of Science Degree in Electrical Engineering. As an intern in Houston, Texas, Dale worked largely in the wastewater industry. The following summer, he worked on the design and manufacturing of packaged electrical houses for use in the oilfield. He works at SKE as an Electrical Engineer.

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### **David M. Cole, P.E.– Pickett, Kelm & Associates**

David Cole is a senior structural engineer with Pickett, Kelm & Associates, Inc. He has been responsible for the structural engineering design of public K-12 schools, industrial manufacturing facilities, commercial buildings, churches, fire stations, public works facilities, athletics and sports facilities. Mr. Cole received his Bachelor of Science in Civil Engineering from the University of Arizona, is a licensed professional engineer in Texas and California, and is a member of the Structural Engineers Association of Texas.

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### **Colton Hawkins– Camp Director**

Colton graduated Cum Laude from Dripping Springs High School this year. He received multiple scholarships to go to Trinity University at San Antonio this fall, where he will major in Biology and minor in Kinesiology. He will be on the Cross County and track teams at Trinity University.

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### **Sarah Kanetzky – Assistant Camp Director**

Sarah graduated from Dripping Springs High School and will attend East Texas Baptist University to study Nursing. Sarah participated in 4-H by showing her prize winning Duroc and Hamp pigs. Sarah modeled and won first place at a Barbizon modelling competition.

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### **J. Kailey Nunley – University of Texas, Austin**

Ms. Nunley is studying Stage Management at UT Austin and is the Production Manager for the 2017 Cohen New Works Festival. She also is the Scheduling and Logistics Assistant and Production Management Assistant at Texas Performing Arts. In addition to finishing her BA in Theatre and Dance, Ms. Nunley has received her Business Foundations Certificate from the McCombs School of Business.

### Dwain Rogers– UTSA

Mr. Rogers attended the University of Texas at Austin, graduating Phi Beta Kappa in 1990, and went on to receive his J.D. from the University of Texas School of Law in 1993. Since the spring of 2012, Dwain has worked as a Research Director for the Texas Sustainable Energy Research Institute at the University of Texas at San Antonio. The Institute performs cutting edge research on a wide variety of energy issues, challenges and opportunities facing the San Antonio community.

### Doug Evans– Delta Airlines Pilot

Doug Evans graduated from the United States Air Force Academy with a Bachelor of Science in Aeronautical Engineering. He then became a T-38 Instructor Pilot and then C-130 Pilot in the Air Force for eight years. Currently Mr. Evans is a First Office for Delta Airlines.

### Gary Cernosek– IBM

Mr. Cernoseks' experience includes working for large enterprise companies, a private start-up that went public, and a 15-person training & consulting firm. His professional mission is to advance the practice of team-based software development to be a more collaborative and business-respected discipline through the use of modern methods and automation.

### Pete Tao-Qualcomm Atheros

I've been in the high tech world since graduating from UT-Austin in 1983. I've been in the high tech world since graduating from UT-Austin many years ago. Products that I've worked on over my career range from GPS chipsets, telephony systems, video conferencing communications and home networking technologies. My current position is a recent return to the video communications space where the changes in communications modes have changed and are changing rapidly while I away working on home networking technologies. I am currently a Sr. Director of Product Management for Vaddio, a small company focused on audio, video and unified communications solutions.

## Camp Schedule

### Monday, June 20

8:00AM - 9:00 AM	SKE Welcome and Introductions
9:00 - 9:30 AM	SKE Mechanical Engineering Chad Black
9:30 - 10:00 AM	SKE Electrical Engineering Dale Julson
11:00—11:30 AM	SKE AutoCAD Andy Hall
11:30 - 12:00 AM	SKE Transition to College Kailey Nunley
12:00 - 1:00 PM	Lunch at the UT Club
2:00 - 3:00 PM	University of Texas at Austin, Cockrell School of Engineering Dr. Wheat
4:00 PM	Pfluger Architects- Brad Pfluger

### Tuesday, June 21

8:00 - 9:00 AM	First Officer Doug Evans
9:00 - 10:00 AM	Software - Gary Cernosek
10:00 - 11:00 AM	Software Engineering Pete Tao - Qual Com
11:00 AM - 12:00 PM	Structural Engineering - David Cole
12:30 - 1:30 PM	Lunch
2:00 - 3:30 PM	3M Tour Utility Plant & Innovation Center Pat L. Patschke - Master Technician
4:00-5:00 PM	Tour of Mesa Oaks Offices

### Wednesday, June 22

8:00 - 9:00 AM	JATC Tour - Jim Stricklan
9:00 AM - 12:00 PM	Project
12:00 - 1:00 PM	Lunch
1:00 - 4:00 PM	Project
4:00 - 5:00 PM	Presentations

### Thursday, June 23

7:30 - 8:30 AM	Travel to San Marcos
8:30 - 9:30 AM	Dr. Austin Talley—Texas State
9:30 AM - 1:30 PM	Travel to Corpus Christi
12:00 - 1:00 PM	Lunch
2:30 - 3:30 PM	Harte Research Inst. For Gulf of Mexico Studies
4:00 - 5:00 PM	TAMU CC Engineering Dept.

### Friday, June 24

7:30 - 11:30 AM	Travel to San Antonio
11:30 AM - 12:30 PM	Lunch at UTSA
1:00 - 4:00 PM	University of Texas at San Antonio
5:00 PM	Travel to Presidio