

2015

Annual Report



TAMIE

Texas Alliance for Minorities in Engineering

STRENGTHENING *the* STEM NETWORK

TABLE *of* CONTENTS

- 1... A Word from TAME
- 2... Mission & Vision
- 3... Our Programs
- 4... Science Squad™ Comic Books
- 5... Trailblazer: Science on Wheels
- 6... Family STEM Nights
- 7... Science Rocks: Library Program
- 8-9... Chapters & Clubs
- 10-11... Math & Science Competitions
- 12... Scholarships
- 13... Financial Report
- 14... Board of Directors
- 15... Donors & Partners
- 16-17... 5 Years of Growth

a word from TAME

It has been an exciting, busy, and impactful year for everyone involved with TAME. The 2 Trailblazers visited 172 schools and inspired 25,005 students by showing them what engineers and scientists do. The State Office and the K-12 Special Interest Group have done a tremendous job of instigating and supporting new TAME clubs continuing to expand our footprint throughout the state of Texas. 961 TAME students demonstrated their proficiency in science, mathematics, design, and teamwork at the 11 Divisional STEM competitions and the State STEM competition.

The most rewarding part of being the Board Chair for TAME is meeting the students and hearing about how their experiences with TAME have inspired them in addition to giving them the skills and confidence to pursue a career in STEM. Thanks to strong support from TAME board members,

ConocoPhillips, Alcoa, Pratt & Whitney and university partners like Texas Tech, Texas A&M and The University of Texas at Austin, 17 TAME students are receiving financial assistance to pursue STEM careers.

Our Advisory Board members, Board members, volunteers, staff and corporate and private donors have helped us provide programming for well over 26,000 Texas youngsters. I thank them for helping to develop the next generation of STEM talent for our state and nation, and challenge you to join us as we continue our mission!



ANDY DECK

Chair, TAME Board of Directors

MISSION & VISION

our Mission ENABLING TEXAS STUDENTS TO PURSUE CAREERS IN SCIENCE, TECHNOLOGY, ENGINEERING AND MATH (STEM) BY:

Creating partnerships among educators, industry, government and families to inform, educate and motivate students

Implementing classroom and extra-curricular programs and activities

Focusing on populations that remain underrepresented in fields of STEM

Promoting diversity in STEM careers



our Vision EVERY K-12 STUDENT HAS THE EDUCATIONAL EXPERIENCES NECESSARY TO PURSUE A CAREER IN THE FIELDS OF SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH.

TAME programs are inclusive but are geared towards engaging underrepresented minority students, especially those that are the first in their family to consider higher education and STEM careers.

our PROGRAMS

SCIENCE SQUAD™ COMICS

Available in English and Spanish, the *Science Squad™* comic books get younger children excited about science through the adventures of five ethnically diverse TAME students who use their abilities in math and science to save the day.

TAME TRAILBLAZERS

The TAME Trailblazers, unique, interactive museums-on-wheels that travel to schools, libraries and communities across Texas to bring hands-on science to students. Trailblazers don't just show students the moon - they show them how to get there.

TAME CLUBS

TAME Clubs provide a supportive, challenging place for K-12 students to build math, science and problem-solving skills. Clubs grant students access to competitions, scholarships and a network of peers, mentors and future employers.

MATH & SCIENCE COMPETITIONS

High-performing TAME Club students come together to compete and celebrate achievement in math, science and engineering challenges. Since 2012, 100% of high school seniors plan to attend college. Of those, 85% study STEM.

SCHOLARSHIPS

TAME provides scholarships for students pursuing STEM degrees and connects scholars to a network of peers and mentors for ongoing encouragement and guidance. Long-term support is critical in building a workforce that looks like Texas.

PROFESSIONAL DEVELOPMENT FOR TEACHERS

TAME works with our academic and corporate partners to connect our K-12 teachers to cutting-edge professional development opportunities, a strong network for sharing ideas and concerns, and a wealth of teaching resources.

*Science Squad*TM COMIC BOOKS



A professionally produced comic series that supports TAME's mission by showing the adventures of five ethnically diverse TAME students who use their abilities in math and science to save the day. Designed for children in Pre-K through 5th grade.

TRAILBLAZER

Science on Wheels



The TAME Trailblazers are unique interactive museums-on-wheels, traveling to schools and communities across Texas to bring science to students. With curated content from NASA, NOAA and the National Energy Discovery Project, the Trailblazers offer hands-on activities and exhibits that allow students to explore concepts in energy, space, weather, biotechnology, and aerodynamics.

172

TOTAL VISITS

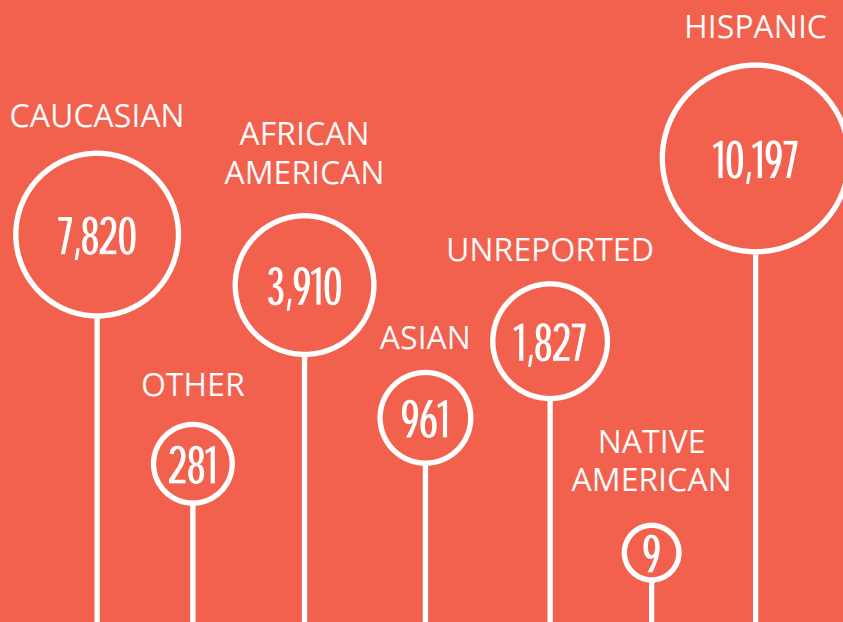
22,404

MILES TRAVELED

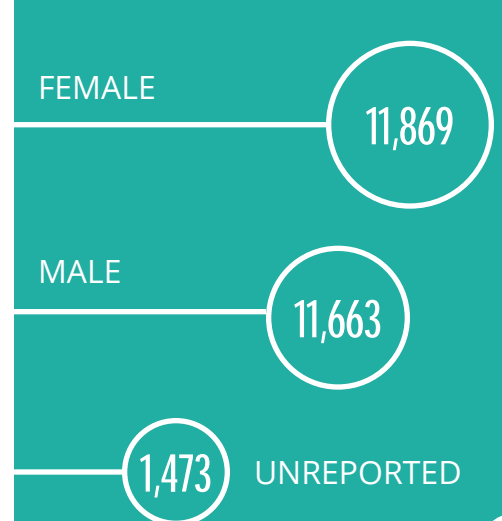
25,005

TOTAL STUDENTS

STUDENTS: *by Ethnicity*



STUDENTS: *by Gender*



Family STEM EVENTS

Program COMPONENTS



the STATS

PROGRAM DATES: 2012 - 2015



“It was **such a positive experience** to watch my children participate and recognize that **learning can be FUN!**”

Science Rocks! LIBRARY PROGRAM



Science Rocks Library Programs are offered in the summer, typically in conjunction with summer reading programs. Training and toolkits help library staff offer informal STEM programs in the community.

the STATS

PROGRAM DATES: 2012 - 2015

115

Libraries
Visited

308

Library
Staff
Trained

502

Circulating
Books
Given to
Libraries

760

STEM
Programs
Offered in
Libraries

2,339

Community
Volunteers

6,578

Books
Given to
Youth

25,875

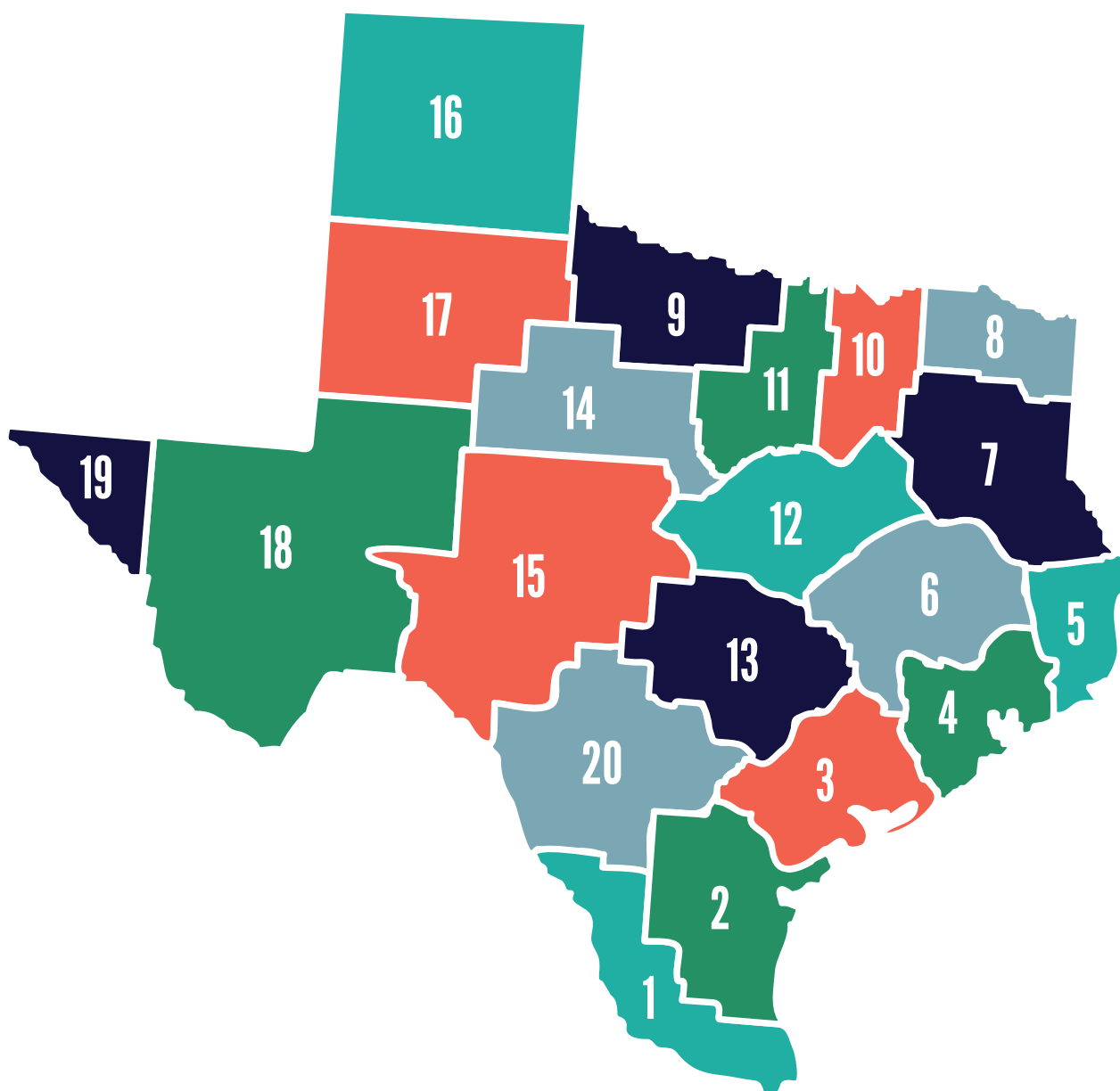
Patrons at
the Library on
Trailblazer Days

41,000

Patrons
Attending STEM
Programs
in Libraries

CHAPTERS & CLUBS

TAME Chapters provide local leadership and support for STEM education. Chapters, which correspond to the regions defined by the Texas Education Agency, bring together volunteers from local schools, colleges, universities, corporations, businesses and community organizations into a leadership team. They offer locally relevant programs like career days, factory tours, and professional development for teachers.



A TAME Club is an enrichment program that is designed to support students interested in exploring STEM subjects with the guidance of sponsors and leaders. While all TAME programs are inclusive, TAME clubs focus on recruiting women and under-represented minority students. The clubs are typically sponsored by teachers or community partners and are usually hosted on a school campus. Clubs meet weekly and program activities are designed to increase student skills, awareness of STEM careers and access to role models.

TEA REGION	CITY	TAME CHAPTER	CHAPTER CHAIR(S)
4	Houston	Gulf Coast (GC TAME)	Emanuel Guidry
5	Beaumont	Golden Triangle (GT TAME)	Annie Carter
9	Wichita Falls	Wichita Falls	Ed Downing
10	Dallas	Dallas	Maurine Amend & Jacqui Long
11	Fort Worth	Fort Worth	Eva Trevino & Steve DeLeon
13	Austin	Capital Area	Karl Nichols
15	San Angelo	San Angelo	Janice Trees
16	Amarillo	Amarillo	Floyd Anthony
17	Lubbock	Lubbock	De'Lila Holder
18	Odessa	West Texas	Kim McKay
20	San Antonio	San Antonio	Sheilda Madkins

“ I credit TAME with their curriculum, their goals, and their support. I can always call the TAME office for help. It’s so different from anything else that’s here, and the kids get really excited. ”

- Janice T., Chapter Chair and Club Sponsor, San Angelo

MATH & SCIENCE COMPETITIONS

The annual TAME State Math & Science Competition brings together hundreds of high-performing minority and female students, grades 6-12, to challenge their science and math skills and connect with a network of peers and mentors across Texas and beyond.

100%

OF HIGH-SCHOOL SENIORS AT THE COMPETITIONS GO TO COLLEGE

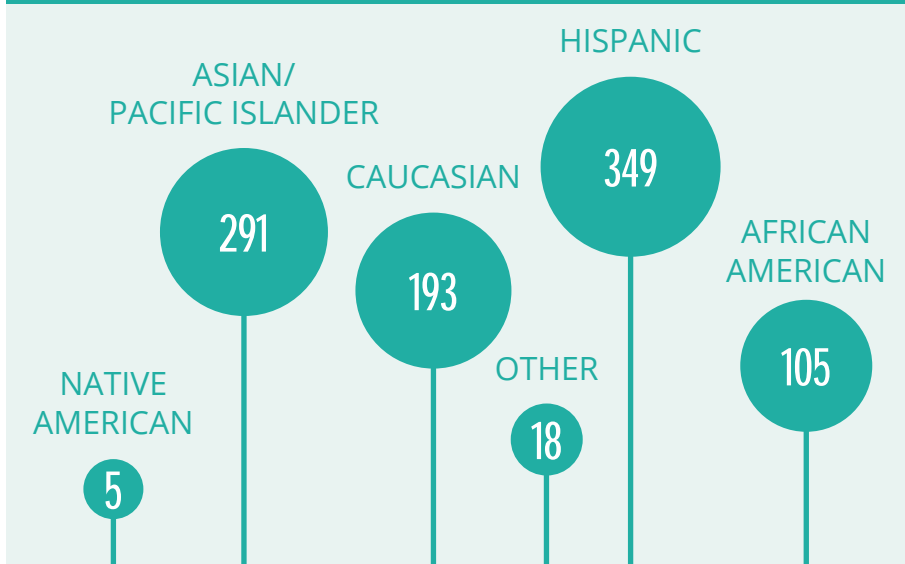
85% MAJORING IN STEM // 50% MAJORING IN ENGINEERING



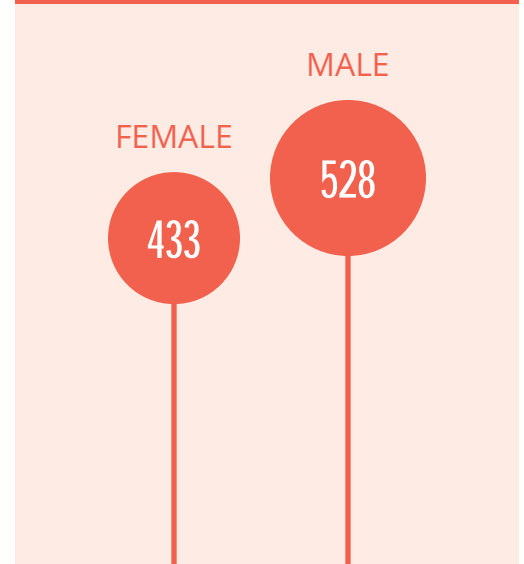
2015 State Competition Host and Presenting Sponsor: **LOCKHEED MARTIN AERONAUTICS**

divisional COMPETITIONS

STUDENTS: *by Ethnicity*



STUDENTS: *by Gender*



961 STUDENTS COMPETED AT
11 DIVISIONAL COMPETITIONS HELD ACROSS TEXAS



state COMPETITION

294 STUDENTS COMPETED AT THE STATE LEVEL

SCHOLARSHIPS

TAME supports careers in science, technology, engineering, and mathematics by offering scholarships to TAME club members who have been accepted into an accredited university or community college to pursue higher education in a STEM-related field.



STUDENT	UNIVERSITY	MAJOR
Aida Lu	Columbia University	Engineering - Operations Research
Alejandro Prieto	Midwestern State	Mechanical Engineering
Alicia Downing	West Texas A&M University	Nursing
Blanca Miranda-Martinez	University of Texas Dallas	Chemistry
James McGuire	Texas Tech	Mechanical Engineering
Joshua Quaid	Texas Tech	Mechanical Engineering
Lilia Requena	Texas A&M University	Biology
Maryana Mbalule	Midwestern State	Nursing
Michelle Zhou	Cornell University	Computer Science
Natalie Sahagun	University of Texas at Austin	Aerospace Engineering
Nathanael Garlington	Midland College	Computer Science/Engineering
Nicholas Curtis	University of Texas at Austin	Chemical Engineering
Reginald Blow	Texas Tech	Mechanical Engineering
Sayon Rhodes	University of Dallas	Chemical Engineering or Math
Shaharyar Ali	University of Texas at Austin	Mechanical Engineering
Sheldon Carter	Oral Roberts University	Physical Education & Engineering
Stephanie Nguyen-Okwu	Texas A&M University	Biomedical Engineering

2014-15 *Financials*

Revenue

CONTRIBUTIONS: \$566,342

PROGRAM REVENUES: \$130,409

OTHER INCOME: \$1,700

TOTAL REVENUE: \$698,451

Expenses

PROGRAM SERVICES: \$606,623

FUNDRAISING: \$18,044

MANAGEMENT & GENERAL: \$97,966

TOTAL EXPENSES: \$722,633

Total Assets: (\$24,182)

BOARD *of* DIRECTORS

Officers

ANDY DECK, *Chair*
National Instruments

TRICIA GORE, *Chair Elect*
The University of Texas at Austin

TAMARA CRAWFORD, *Secretary*
Lockheed Martin

DEB DORMAN, *Treasurer*
IBM

MEMBERS *&* REGIONAL REPRESENTATIVES

Mike Alvarez
Shell Oil Company // Member

Laura Bosworth
TeVido Biodevices // Member

Grant Butkus
Macquarie Capital // Member

Dominic Cortez
B&W Pantex // Regional Representative

Steve DeLeon
Lockheed Martin (Retd.) // Regional Representative

Chris Giuffreda
ConocoPhillips // Member

Emanuel Guidry
SK E&P Company // Regional Representative

Deborah Kariuki
Round Rock ISD // Member

Aaron Maestas
Raytheon // Member

Karl Nichols
E3 Alliance // Member

Ifeanyi Okonkwor
BASF // Member

Tramaine Singleton
Halliburton // Member

ADVISORY BOARD

Annie Carter // Chevron Phillips (Retd.)

Cres Guzman // ASCE Texas Chapter

Gail Harrison // ConocoPhillips

Magda Lagoudas // Texas A&M University

Bridget Lauderdale // Lockheed Martin

Patricia Rossman // BASF

DONORS & PARTNERS

DONORS

Platinum: 50K+

ConocoPhillips
Shell Oil Company
IBM
The Boeing Company
Lockheed Martin Aeronautics
American Honda Foundation

Diamond: 25 - 50K

Tocker Foundation
BASF
The University of Texas at Austin

Gold: 15 - 25K

Texas Regional Collaboratives
3M Foundation
Alcoa Foundation

Silver: 10 - 15K

Workforce Solutions
of West Central Texas
ESC Region 14
TLL Temple Memorial Library
Chevron Phillips
Kathy & Bob Zerda
Port Arthur Industrial Group
GM Foundation

Bronze: 5 - 10K

Dallas ISD
Houston ISD
Pratt and Whitney Canada
Marathon Oil Company
Alief ISD
Raytheon
Abell Hanger Foundation
Emerson Process Management
McCoy Foundation

Friends of TAME

Adam Lewis
Adriana Fernandez
American Society of Civil Engineers
Andy Deck

Anthony Sanchez
Applied Materials Foundation
Austin ISD
BASF Total Petrochemicals LLC
Brian B. Raygon
Cactus Ranch Elementary School
Chevron Phillips Chemical
City of Hempstead
Coastal Bend College
Debra F. Owens
Dow Chemical Company
Emanuel Guidry
Exxon Mobil Corporation
Fannie Brown Booth Library
Flint Hills Resources
Friends of Round Rock Library
Gail Harrison
Harlandale ISD
Harris County Precinct One
Houston Community College
Iliana C. Ruiz
Invista
Jayar Medlock
Karnes City ISD Foundation
Koch Companies
Lamar University
Livingston Municipal Library
Maria Reyes
Monica R. Cates
Motiva Enterprises
Mustang Engineering
National Instruments
Oxbow Calcining
Parades Elementary School
Patricia A. Gore
Prashanth Gadgil
Rockwell Collins
Round Rock Public Library
Sam Zigrossi
Samsung Austin Semiconductor
Steve DeLeon
Steven Hill
Texas A&M International University
Texas A&M University
Texas Tech University
The University of Texas - Pan American

TOTAL Petrochemicals
Tramaine Singleton
Tricia S. Berry
TXU Energy
Valero
Veolia
Xcel Energy
Zpryme

COMMUNITY PARTNERS

American Society of Civil Engineers
American Society of
Mechanical Engineers
Connecting Texas Libraries Statewide
National Society of Black Engineers
Skillpoint Alliance
Texas Regional Collaboratives

HIGHER EDUCATION PARTNERS

Amarillo College
Angelo State University
Coastal Bend Community College
Educational Service Centers
Lamar University
Odessa College
Prairie View A&M University
St. Phillips College
Tarrant County Community College
Texas A&M University
Texas Tech University
University of Houston
University of Texas at Austin
University of Texas Permian Basin

5 YEARS *of* GROWTH

Over the past 5 years, TAME has pursued a strategy of sustainable-growth by diversifying our funding sources, solidifying partnerships and investing in our organizational infrastructure. The result? Annual income, doubled. Scholarship applicants, doubled. Number of Trailblazers, doubled. Number of schools that the Trailblazer visited, tripled. But one number hasn't changed: High-school seniors at the TAME Math & Science Competitions who go to college, still at 100%.



TAME PROGRAM TOTALS *from* 2010 - 2015

CLUB MEMBERS

1,487

SCHOLARSHIPS
AWARDED

79

DIVISIONAL
MATH & SCIENCE
PARTICIPANTS

3,731

TRAILBLAZER
VISITS

556

122,767

TOTAL STUDENTS SERVED *from* 2010 - 2015



“ I participated in TAME competitions for 5 years before **proudly becoming a TAME Scholar** and paying it back through volunteering. I'm now working my way through geology field courses and plan on studying abroad in Botswana summer of 2015. TAME really introduced me and **encouraged me in the STEM fields** where there weren't many other influences. ”

- Zoi T., The University of Texas at Austin - Environmental Science Major



Texas Alliance for Minorities in Engineering

www.TAME.org

10100 BURNET ROAD, R9200 □ BUILDING 16, ROOM 10
AUSTIN, TX 78758 □ (512) 471-6100