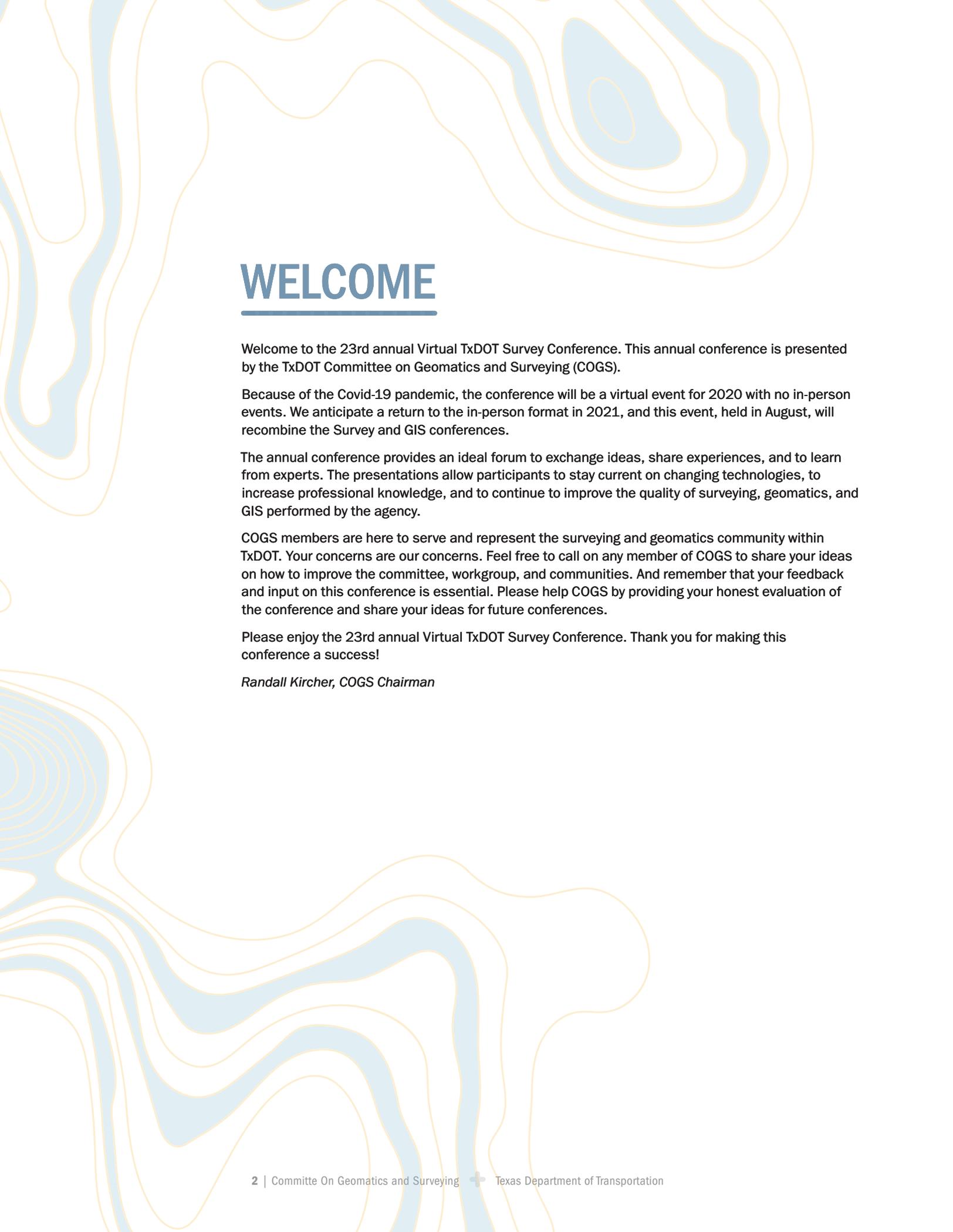


The background features a topographic map with contour lines in shades of light blue and orange. A large teal circle is overlaid on the map, partially obscuring the contour lines. The text is positioned within this teal circle.

VIRTUAL TxDOT SURVEY
CONFERENCE **2020**





WELCOME

Welcome to the 23rd annual Virtual TxDOT Survey Conference. This annual conference is presented by the TxDOT Committee on Geomatics and Surveying (COGS).

Because of the Covid-19 pandemic, the conference will be a virtual event for 2020 with no in-person events. We anticipate a return to the in-person format in 2021, and this event, held in August, will recombine the Survey and GIS conferences.

The annual conference provides an ideal forum to exchange ideas, share experiences, and to learn from experts. The presentations allow participants to stay current on changing technologies, to increase professional knowledge, and to continue to improve the quality of surveying, geomatics, and GIS performed by the agency.

COGS members are here to serve and represent the surveying and geomatics community within TxDOT. Your concerns are our concerns. Feel free to call on any member of COGS to share your ideas on how to improve the committee, workgroup, and communities. And remember that your feedback and input on this conference is essential. Please help COGS by providing your honest evaluation of the conference and share your ideas for future conferences.

Please enjoy the 23rd annual Virtual TxDOT Survey Conference. Thank you for making this conference a success!

Randall Kircher, COGS Chairman

AGENDA

TUESDAY, DECEMBER 8, 2020

8:00 a.m.	Conference Webinar Opens	
8:30 a.m.	Opening Welcome	<i>Randall Kircher, RPLS, TxDOT CRP</i>
8:45 a.m.	Administration Welcome	<i>James Bass, TxDOT ADM</i>
8:55 a.m.	TSPS Activities	<i>Chris Freeman, RPLS, TSPS TxDOT Liaison</i>
9:10 a.m.	Award of Excellence in Surveying	<i>Randall Kircher, RPLS, TxDOT CRP</i>
9:20 a.m.	Texas Board of Professional Engineers and Land Surveyors - Update on Agency Merger	<i>Lance Kinney, P.E., TBPELS</i>
10:10 a.m.	BREAK	
10:20 a.m.	The McDonald Geodetic Observatory	<i>Dr. Srinivas Bettadpur, Director, Center for Space Research, University of Texas, Austin</i>
11:00 a.m.	BREAK	
11:10 a.m.	Statewide Parcel Layer	<i>Gayla Mullins, TNRIS Lauren Kirk, TNRIS</i>
11:50 a.m.	LUNCH	
1:00 p.m.	Fly Safe! A Review of the TxDOT Unmanned Aircraft System (UAS) Flight Operations and User's Manual	<i>Jim Reid, TxDOT Aviation</i>
1:30 p.m.	5 Things Your ROW Attorney Wants You to Know	<i>Melinda Skillern, TxDOT ELP ROW</i>
2:00 p.m.	BREAK	
2:10 p.m.	Doing Business with TxDOT - Overview of the RFP and Selection Process	<i>Dan Neal, III, TxDOT PEPS</i>
2:50 p.m.	Safety on the ROW	<i>Jeff Chennault, TxDOT OCC</i>
3:30 p.m.	BREAK	
3:40 p.m.	Parcel entry into TxDOT Connect	<i>Eddie Garcia, TxDOT ROW</i>
4:15 p.m.	NGS Presentation on Geodetic Control in Texas	<i>Boris Kanazir, NGS</i>
5:00 p.m.	Daily wrap-up	<i>Randall Kircher, TxDOT CRP</i>

AGENDA

WEDNESDAY, DECEMBER 9, 2020

8:00 a.m.	Ethics and Professionalism	<i>Homer Díaz, TxDOT HRD</i>
9:05 a.m.	BREAK	
9:15 a.m.	Ethics What the Fraud?	<i>Parsons Townsend and Anthony Thomas, TxDOT CMP</i>
10:20 a.m.	BREAK	
10:30 a.m.	3D Visualization of the NTE 35W	<i>Cameron Schmeits, University of Texas CTR</i>
11:10 a.m.	BREAK	
11:15 a.m.	TxDOT ENV's GIS Tools	<i>Linda Henderson, TxDOT ENV Jason Kord, TxDOT ENV Rebekah Dobrasko, TxDOT ENV</i>
12:00 p.m.	LUNCH	
1:00 p.m.	GPS on BMs	<i>Matt Bryant, TxDOT ITD Randall Kircher, TxDOT CRP</i>
1:45 p.m.	BREAK	
1:50 p.m.	The 2022 Readjustment: Low Distortions Projections	<i>Ibraheem Ali, TxDOT ITD</i>
2:25 p.m.	The 2022 Readjustment: The Texas Perspective	<i>Randall Kircher, TxDOT CRP</i>
3:05 p.m.	BREAK	
3:10 p.m.	The 2022 Readjustment: Legal and Legislative Issues	<i>Davey Edwards, TAMUCC</i>
3:50 p.m.	Boundary Surveying with Low Distortion Projections	<i>Shawn Billing, TSPS</i>
4:30 p.m.	BREAK	
4:35 p.m.	Follow-up: Questions answered, feedback from the community	<i>Randall Kircher, TxDOT CRP</i>
4:50 p.m.	Wrap-up	<i>Randall Kircher, TxDOT CRP</i>
5:00 p.m.	Session ends	

THE COMMITTEE ON GEOMATICS AND SURVEYING (COGS)

OBJECTIVE

The primary objective of the committee is to provide guidance to administration to achieve the goal of providing efficient, effective, and affordable geomatics services and projects to users within the agency and to:

- Be an effective committee;
- Maintain expertise in geomatics;
- Provide the annual TxDOT Geomatics and Surveying; Conference and Workshop;
- Provide the agency with guidance in geomatics;
- Provide liaison to the TBPLS, TSPS, and other professional geomatics organizations;
- Provide liaison to TxDOT contractors; /
- Maintain standards and specifications.

MISSION STATEMENT

- Make TxDOT a more effective organization by evaluating and recommending adoption of technologies and techniques that are cost effective, improve efficiencies, and improve quality.
- Make TxDOT a safer organization by evaluating and recommending adoption of technologies that improve employee safety by minimizing exposure to hazardous working conditions.
- Make TxDOT transportation infrastructure last longer by evaluating and recommending adoption of technologies and techniques that improve pavement condition assessment, improve bridge clearance measurements, and improve general measuring quality.
- Help TxDOT meet its mission by providing expertise in the geospatial resources fundamental to the success of the agency.

COMMITTEE MEMBERSHIP

- Five member seats from districts
- One standing seat from the ROW Division
- One standing seat from the Design Division
- One standing seat from the Photogrammetry Section
- One standing seat from the Construction Division
- One standing seat from the Information Technology Division
- One standing seat from the Transportation Planning and Programming Division (TP&P)
- One at-large seat from another non-represented division or district

MEMBERSHIP TERMS

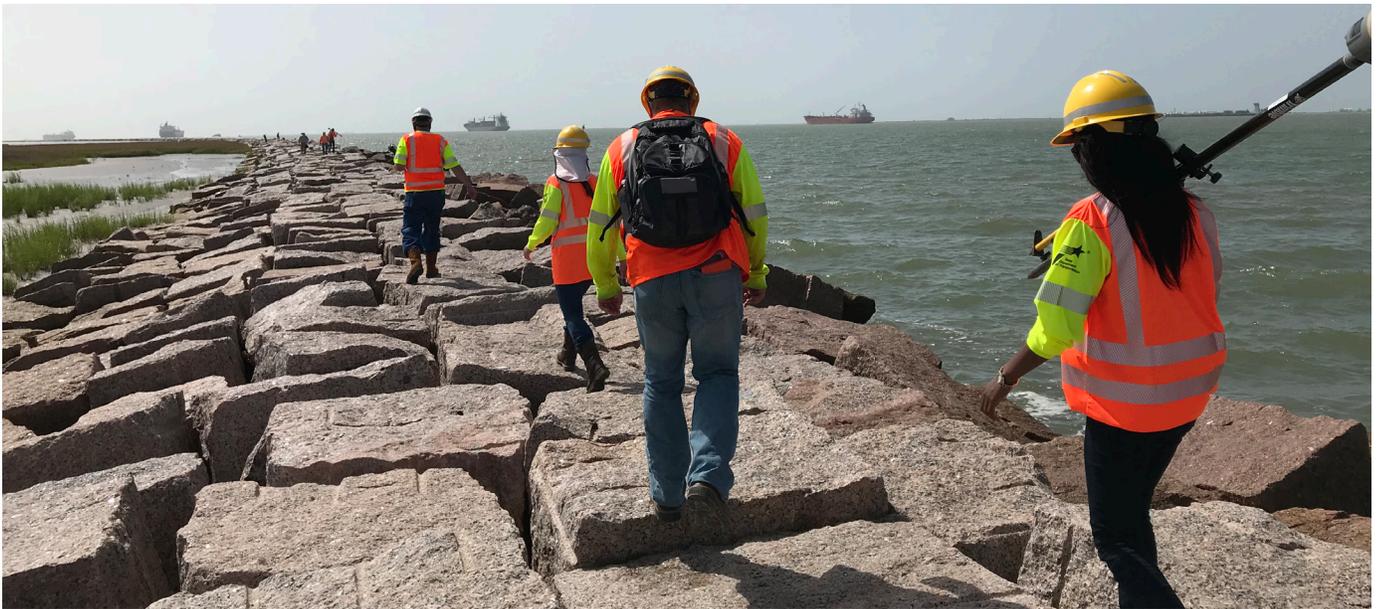
- Member terms are five years in length.
- Standing terms do not expire.
- At-large term is three years in length.

LEADERSHIP / ADMINISTRATION

- The committee is sponsored by the ROW Division.
- The committee is led by a chairman, elected annually by a majority vote of the committee membership.
- Meetings are conducted on a quarterly basis or more frequently if needed.
- Meeting summaries document the business conducted during committee meet.

COMMITTEE MEMBERSHIP

MEMBER	DISTRICT/ DIVISION	TERM EXPIRES
Scott Morris, RPLS	LFK	2021
David McDow, RPLS, LSLS	TYL	2022
Randall Kircher, RPLS	CRP	2023
Manuel Carrizales, RPLS	PHR	2024
Gina Franklin, RPLS	AUS	2025
Dan Erwin, RPLS	ROW	Standing Term
Christopher Cho	ITD	Standing Term
Jonathan Martin, CP	DES	Standing Term
Lonnie Ragsdale, PE	CST	Standing Term
Travis Scruggs	TPP	Standing Term
Sandra Sinton, PE	DES	Standing Term





AWARDS

STEPHEN R. SCHMIDT AWARD

TxDOT's Stephen R. Schmidt Award of Excellence in Surveying is awarded to recognize an individual in the TxDOT surveying, mapping, photogrammetry, construction or contract management community who has exhibited outstanding service to TxDOT and/or the surveying profession. In addition to their service and contributions to TxDOT and/or the surveying profession, award winners are recognized as good and valuable citizens in their communities.

This annual award, first awarded in 2010, is named for Stephen R. Schmidt, who faithfully served TxDOT for 20 years as an expert in the areas of GPS surveying. Award recipients are selected by the Committee on Geomatics and Surveying (COGS) from nominations submitted by TxDOT supervisors, coworkers, and peers.

PAST RECIPIENTS

2019	Walter "Joe" Breaux, RPLS
2018	Ivor Walker, RPLS
2017	Michael Shelton, RPLS
2016	David Crain, RPLS, LSLS
2015	Darryl Zercher, RPLS
2014	Randall Kircher, RPLS
2013	Wayne Ekdahl, PE, RPLS
2012	Richard Hutton, RPLS
2011	Joseph L. Grimes, Jr.
2010	Stephen R. Schmidt, CST

TxDOT COMMITTEE ON GEOMATICS AND SURVEYING MEMBERS

MANUEL CARRIZALES, RPLS



Manuel “Manny” Carrizales started his career in the private sector in 1997 having just completed a 5 year active duty enlistment in the

United States Army where he earned the rank of Specialist, E4 Promotable.

He earned an associate’s degree in Computer Aided Drafting and Design from ITT Tech, San Antonio and worked as a draftsman. Knowing he could achieve more, he used his enlistment benefits to get himself through college while raising a family and working full time in a private Civil Engineering firm.

After many years of applying himself, he earned a degree in Manufacturing Engineering from the University of Texas Pan American in 2006, the same year he earned his status as an Engineer-In-Training, having passed his FE exam as well as his Surveyor-In-Training status, having passed his FS exam.

Manny earned his RPLS in 2012. He has been very active in the surveying community where he is known by his peers throughout the state. Manny was awarded the TSPS Chapter President of the Year Award as well as the Star Chapter of the Year Award in 2013. In 2017, he was awarded the prestigious Young Surveyor of the Year Award. Manny started working for TxDOT in the Pharr District in April 2018.

CHRISTOPHER CHO



Christopher (Chris) Cho is the TxDOT ITD Product Manager for Engineering Services working with partners in TxDOT for solutions related

to survey, design, GIS, and environmental technologies.

Chris began his career with TxDOT in 2019 with ITD. He started his career as a technologist working on interoperability issues related to the Aegis Ballistic Missile Defense (BMD) program. He later moved as a QA engineer and process specialist for industrial control and automation systems.

Chris is a native Texan, raised in the Dallas-area, and he returned home in 2013. When he has the time, he enjoys woodworking, homebrewing, and cooking. He enjoys spending time with his wife Katie, a professor at Texas State in San Marcos, and his son Henry, born in 2018.

DAN ERWIN, RPLS, PLS



Daniel L. “Dan” Erwin is a right of way surveyor, geographic information systems (GIS) specialist, and GIS coordinator in the TxDOT ROW Division’s

Asset Management Section.

Dan started his surveying career in the Lower Rio Grande Valley in 1967. He has a total of 49 years of experience of which 22 years are in private sector surveying.

Dan has held the position of cadastral surveyor and survey examiner with the Bureau of Land Management, United States Department of the Interior in Santa Fe, New Mexico (1978-1984), the TxDOT district survey coordinator of the Austin District (1986-1990), and the TxDOT district survey coordinator of the El Paso District (2000-2006). He transferred to the TxDOT ROW Division in 2007.

Dan received his certification as a registered professional land surveyor in Texas in 1986 and his certification as a professional land surveyor in Wyoming in 1999.

GINA FRANKLIN



Gina began her surveying career in 1980 on a survey crew out in West Texas near the Midland/Odessa area. In 1986, Gina moved to Austin

where she finished her associate's degree in Engineering Design and worked as an engineer designer on several infrastructure projects that helped with the growth of the city.

In 1993, Gina successfully ran her own consultant business until 2000 when she decided to return to surveying. After completing her bachelor's degree in Business Management, Gina became a registered professional land surveyor in January 2009. Prior to joining TxDOT in 2018, Gina spent 17 years in the private sector as a survey lead and consultant for TxDOT projects.

Gina and her husband, John, have two grown sons, a daughter entering high school, and four dogs that think they are children. Gina enjoys gardening, being a Girl Scout volunteer, and coming up with projects for her husband.

RANDALL KIRCHER, RPLS



Randall Kircher is the Corpus Christi District Survey Coordinator, managing Survey and Subsurface Utility Engineering (SUE) consultants

and managing the district's survey personnel, data, and resources.

He began his career with TxDOT in 1990 in the Corpus Christi Area Office as a survey crew member and moved to the District Survey Office in 1995, managing district survey consultant projects and monitoring quality control of survey deliverables. He became a registered professional land surveyor in May of 2002.

Randall began serving his second term on COGS in 2017, having previously served from 2007-2011, including as chair from 2009-2011. He was awarded the Stephen R. Schmidt Award of Excellence in Surveying in 2014, has been a member of the Texas Board of Professional Engineers and Land Surveyors Quality Assurance/Quality Control (QA/QC) Exam Workgroup since 2006, and currently serves as chair. Randall is also leading TxDOT's efforts to prepare for the new 2022 State Plane Coordinate System and serves as the National Geodetic Survey (NGS) Geodetic Coordinator for Texas.

Randall was raised on a farm, and he owns and runs a small farming operation in his spare time. He enjoys spending time with his wife, Christine, visiting their daughters, Amy and Julie, and following college football and baseball.

JONATHAN MARTIN, CP



Jonathan Martin is a Certified photogrammetrist working in the Design Division. Jon has over 35 years of experience

in the geospatial sciences, including photogrammetry, land surveying Geographic Information Systems (GIS), and Global Positioning Systems (GIS).

Jon is the technical lead for the current TxDOT research into the use of unmanned aerial systems (UAS). He serves on the COGS Technology and Conference subcommittees.

Jonathan graduated from the University of Texas at Austin and is an active member of the American Society for Photogrammetry and Remote Sensing.

DAVID A. MCDOW, RPLS, LSLs



David A. McDow is the Tyler District Survey Coordinator, responsible for reviewing consultant deliverables, managing all district

surveying operations, overseeing two in-house surveying crews, developing district procedures and standards, and answering questions from the public.

David began his surveying career as a tail-chainman in 1983 in Austin, TX, with Jeryl Hart Engineers, Inc. During the late 1980s/early 1990s, the Texas economy caused David to hide in college. He obtained a BA and MA in Anthropology from the University of Texas at Austin with the goal of becoming a professor and doing research. Realizing in the late 1990s that his objective was a fantasy, David returned to surveying.

In 2000, David started with Cunningham Allen, Inc., an engineering and surveying firm in Austin, TX. David became a registered professional land surveyor in June of 2006.

David took the opportunity to work at the Texas General Land Office (GLO) in 2007 where he became a Licensed State Land Surveyor in July of 2011. David worked at the GLO until Oct. 2015.

David began his career with TxDOT in the Bryan District in Oct. 2015 and started at the Tyler District in January of 2018. David was appointed by the Texas Board of Professional Land Surveying to the Quality Control/Quality Assurance (QCQA) Examination Committee in Aug. 2007. David was appointed as the vice-chairman of the QCQA Committee Oct. 2014.

David was born to and grew up in a ranching family in Falfurrias, TX. He has been married to Lisa for 34 years and has one daughter, Sarah. David loves backpacking with his family in the mountains of New Mexico, Utah, and Arizona. He also loves spelunking with Sarah in various localities in Texas and other states.

SCOTT MORRIS, RPLS



Scott Morris is the district survey coordinator for the TxDOT Lufkin District.

He began his career with TxDOT as a summer hire in 1982 in the San Augustine County Maintenance Office of the Lufkin District.

Morris worked several summers for the state before graduating from Tyler Junior College with an Associates of Applied Science in Surveying.

He spent the next 25 years in the private sector performing boundary surveys in east Texas and then as a consultant surveyor for transportation projects.

In 2012, he returned to TxDOT where he holds his current position.

His interests outside of surveying include playing competitive bridge, gold, and spending time with his wife and two daughters.

LONNIE RAGSDALE, PE



Lonnie graduated in 1990 from the University Of Texas at Austin with a BS in Civil Engineering. He has 26 years with TxDOT and has worked

in the Brownwood, Dallas, and San Antonio Districts where he performed roadway design, construction inspection and construction management / oversight and has experience with both design-bid-build and design-build / CDA projects.

In 2011, Lonnie transferred to the San Antonio District and served in the District Construction Office as the FHWA Liaison and helped coordinate project oversight visits and various reviews by FHWA and DoD officials; project change order reviews and coordination with FHWA Area Engineers for participation. In 2018, Lonnie accepted a position with the Construction Division as the FHWA Liaison on a statewide level.

Lonnie is a U. S. Navy veteran having served 22 years with the Navy Seabees where he served as a construction surveyor, draftsman, and construction materials technician. He and his wife have been married for 45 years and have two sons and four grandchildren.

TRAVIS SCRUGGS



Travis Scruggs is a GIS Analyst in the Data Management Section of TxDOT's Transportation Planning and Programming Division

and has been at TxDOT for 10 years.

Travis has worked to create and maintain TxDOT's spatial roadway data, manage GIS projects and data, and coordinate the efforts of GIS users both within TxDOT and with other state agencies. Travis also serves as a project advisor on multiple Research and Technology Implementation Division (RTI) projects studying the impacts and future development paths for connected and autonomous vehicles.

Travis received a bachelor's degree in Geography in 2007 and a master's degree in Geospatial Sciences in 2009, both from the University of Texas at Dallas. Travis is passionate about autonomous vehicles, rocketry and, space science.

SANDRA SINTON



Sandra Sinton is a transportation engineer in the Design Division.

Sandra has 20 years of experience with TxDOT. She works

in the Plan Development Section where she has recently designed and managed various energy sector projects for the Odessa District. She is currently assisting with the testing and implementation of the new OpenRoads Designer for the department.

Sandra graduated from the University of Texas at Austin with a Bachelor of Science in Mechanical Engineering. She grew up in Victoria, TX. She and her husband, Alan, have been married for 18 years and have two sons, Daniel and Grayson. Sandra loves spending time with her family and friends.

SPEAKER PROFILES

IBRAHEEM ALI



Ibraheem Ali is a senior geomatics specialist working in the Information Technology Division (ITD), TxDOT.

Mr. Ali is a certified mapping scientist-remote sensing and holds an master of science degree in Earth and Space Science and bachelor of science degree in Surveying Engineering. Ibraheem has more than 25 years of experience in geodesy, surveying, remote sensing, Geographic Information System (GIS) and Global Navigation Satellite System (GNSS).

During his career, Ibraheem has worked in a variety of industries and organizations such as government bodies, academic institutes, oil and gas industry and construction and engineering consultant firms.

Ibraheem is currently working with the TxDOT team and other stakeholders to develop a Low Distortion Projection System for the state of Texas.

SRINIVAS BETTADPUR



Dr. Bettadpur is a space geodesist, and studies the Earth's variable gravity field, orientation and shape from a space-based vantage point. His

interest in the mechanical Earth evolved when his early education in celestial mechanics, perturbation theories, and orbit determination merged with his growing fascination with the eternally moving Earth and its fluid components. His interest in this science and in engineering practices led to his current active involvement in architecture development for space missions and large-scale observation systems. He teaches orbital mechanics, space geodesy, and estimation.

Dr. Bettadpur joined the tenured faculty ranks as an associate professor in the ASE/EM Department at UT Austin in 2015. From 2010-2015, he held the title of research professor, prior to which he had been a senior research scientist at the UT Center for Space Research.

Srinivas Bettadpur obtained his Ph.D. in Aerospace Engineering from The University of Texas at Austin in 1993. Prior to that, he obtained an MS from the University of Oklahoma in 1987, and an MTech from the Indian Institute of Technology Kanpur (India), both in Aerospace Engineering. He obtained his bachelor of engineering in Mechanical Engineering from the Punjab Engineering College in Chandigarh (India).

Dr. Bettadpur is a fellow of the International Association of Geodesy (IAG), and an associate fellow of the American Institute of Aeronautics and Astronautics (AIAA). He received the NASA Exception Public Achievement Medal in 2018, the European Geosciences Union Vening-Meinesz Medal in 2016.

SHAWN BILLINGS



Shawn Billings is an RPLS in Kilgore, Texas, and is the owner of Pendulum Surveying, which he founded with his wife, Rebecca, in 2016. He's been

licensed since 2003 and began working in surveying (professionally) in 1995, having spent numerous summers and school breaks working for his father, J.D. Billings, RPLS, since childhood.

In 2012, he began working as a consultant to Javad GNSS, helping develop software and hardware for surveyors. He continues to provide sales and technical support to Javad GNSS users. He's written for various publications on surveying topics for more than 10 years, most notably for American Surveyor Magazine.

Recently he has represented the Texas Society of Professional Land Surveyors, as a stakeholder, with various other stakeholders, in the development of the projections that will supersede the existing Texas Coordinate System of 1983 upon the release of the new 2022 Terrestrial Reference Frames from NGS.

JEFF CHENNAULT



Jeff Chennault is the current Director of Safety Operations for the Occupational Safety Division. He is responsible for the department's

overall safety program, industrial hygiene, safety-related training and injury/incident prevention.

After receiving his BS with a major in Industrial Hygiene from Purdue University in 1994, Jeff worked for several Chicago-Area safety product / service distributors providing integrated services, strategies, and equipment to keep workers safe. In 2008, he went to work for the Metropolitan Water Reclamation District of Greater Chicago as a safety specialist; responsible for safety process at the world's largest wastewater treatment plant. During his tenure there, he helped modernize safety programs, improve processes, and reduce the injury rate by over 60%.

In 2014, he accepted a position with TxDOT as safety officer with the Corpus Christi District and relocated his family to Texas. In 14 months with the Corpus District, he worked to improve the safety culture and spread the message of injury and incident prevention. In Oct. 2015, he accepted a position with the Occupational Safety Division (OCC) and shifted his focus from the district to the state level. Primarily involved with improving safety processes; Jeff has been working on training, program compliance, and industrial hygiene issues.

Most of his time is spent traveling across the state working with employees at job sites coaching safety and learning more about TxDOT job functions and how to make them safer. In May 2016, he received his Certified Safety Professional (CSP) Designation, awarded to individuals who meet eligibility and experience criteria in the EH&S discipline and

pass an examination.

Jeff and his wife Marie, a native of Corpus Christi, have three children: Leighton –11, Declan – 7, and Sloane – 6. Jeff enjoys spending time with his family, attending sporting events, hunting, reading, and playing golf.

HOMER DIAZ



Homer Diaz is the section director for TxDOT's Ethics and Employee Conduct Section in the Human Resources

Division where he answers questions concerning the department's ethics policy, employment law issues, and state ethics laws from managers, commissioners, and other employees by phone and through email at Ethics@txdot.gov. His team also conducts investigations and handles issues concerning discrimination, harassment, workplace violence, and/or retaliation and provides various other ethics and human resources related support to the department.

Before coming to TxDOT, he served as the deputy director at the Texas Ethics Commission where he provided advice on Texas ethics laws, campaign finance laws, lobby laws and various other laws within the agency's jurisdiction. He also investigated and processed numerous complaints against elected officials in Texas resolved through administrative hearings before the Ethics Commission and agreed up settlements.

He received his B.B.A. from Texas A&M University with a specialization in business management, and J.D. from St. Mary's University School of Law in San Antonio.

REBEKAH DOBRASKO



Rebekah Dobrasko lives in Austin, Texas and is an environmental program manager and lead historian at the Texas

Department of Transportation. She is currently project managing the Environmental Statewide Public Engagement Program and the Beyond The Road campaign.

She holds a master's degree in public history from the University of South Carolina and an undergraduate history degree from Tulane University in New Orleans.

Prior to joining TxDOT in 2013, Rebekah worked at the South Carolina State Historic Preservation Office in Columbia, South Carolina for ten years. During that time, she served as the supervisor for compliance, tax incentives, and survey and as the state tax credit program coordinator.

DAVEY EDWARDS, PHD, PLS LSLS CFEDS



Davey Edwards is a professional land surveyor in Texas and Oklahoma. He also has been duly qualified as a Texas licensed state

land surveyor and a U.S. Bureau of Land Management (BLM) Federal land surveyor. He is currently a professional assistant professor in the Geographic Information Systems and Geospatial Systems Engineering programs at Texas A&M University - Corpus Christi. He is the appointed director of the Texas Spatial Reference Center in the Conrad Blucher Institute for Surveying and Science.

Davey has his bachelor's degree from Texas A&M University in College Station, master's degree from Texas A&M University – Corpus Christi, and doctorate degree from the University of Texas in Dallas. His studies concentrated on land administration systems and riparian boundary morphology.

Davey is a past president of the Texas Society of Professional Surveyors (TSPS). He is the 2006 recipient of the TSPS Young Surveyor of the Year award and the 2007 recipient of the TSPS Chapter President of the Year award. He has served as chairman of the City of Decatur's planning and zoning commission. He has served as public member of the Texas Board of Architectural Examiners (TBAE) and as a licensed state land surveyor member of the Texas Board of Professional Land Surveying (TBPLS). He is currently serving as a survey emeritus member and a member of the survey advisory committee of the Texas Board of Professional Engineers and Land Surveyors (TBPELS). He is also serving as an advisory to the examination for professional surveyors committee and has served on the item writing committees for the National Council

of Examiners for Engineering and Surveying (NCEES). Recently, he was appointed by the National Society of Professional Surveyors (NSPS) to serve as the educational liaison for the United States to Commission 2 of the International Federation of Geomatics (FIG).

Davey actively continues to work as a consultant and vice president of his father's 45-year old land surveying company, Edwards Surveying, LLC, in Decatur, Texas, where their primary work is in large boundary surveying and boundary issue resolution. His work has been on some of the most complex original land grant surveys and interstate and international boundary line resolutions. He has personally surveyed, on-the-ground, in every region of Texas and Oklahoma. He brings this first-hand experience to educate the next generation of land surveyors at Texas A&M University – Corpus Christi.

EDUARDO “EDDIE” GARCIA IV



Eddie joined the TxDOT in January 2014. Since joining the Mapping Section of the Right of Way Division, it has been a task for Eddie to

conduct training sessions across Texas for TxDOT staff and consultants on the process of converting CAD graphics files into ArcGIS files. The Right of Way mapping staff is responsible for compiling and sharing with the public all parcels of land purchased for highway purposes.

Prior to joining TxDOT, Eddie spent 5 plus years with the Surface Mining and Reclamation Division of the Railroad Commission of Texas. He began the development and management of a GIS database for the 30 plus surface coal mines permitted in Texas, covering more than 300,000 acres.

Before starting his state service, Eddie spent 12 years working for various surveying companies in San Antonio and Austin. Eddie is continuing his pursuit of an RPLS.

LINDA HENDERSON



Linda Henderson joined the team of historians in TxDOT's Environmental Affairs Division in 2018 after spending the first 20 years

of her preservation career at the Texas Historical Commission.

During that that time, she worked on a variety of projects including historic courthouses, historical markers, and state and federal reviews.

Her academic pursuits have included degrees in Architectural Studies, English, and Public Affairs, all from the University of Texas at Austin, and her personal interests include historic Texas dance halls, creative writing, songwriting, and instilling a love of buildings and historic places in her two teenage sons, who roll their eyes but secretly love it all. Really.

BORIS KANAZIR



Mr. Boris Kanazir is a geodesist for the National Geodetic Survey in Silver Spring, Maryland. He has 19 years of

experience and is a

professional land surveyor licensed in Texas and Louisiana.

Throughout his extensive education and career, Mr. Kanazir has gained geodetic and land surveying expertise comprised of numerous abilities and skills in various disciplines while providing land surveying, dimensional control, and laser scanning services.

In addition, he also possesses a wide range of management and communication skills, such as, project management and coordination of multi-disciplinary projects while ensuring quality control, ability to develop strategies to achieve organizational goals and adapt them to changing conditions, as well as collaboration with other disciplines, clients, and outside agencies.

Mr. Kanazir is highly technically skilled and always expressing interest in emerging technologies. He displays a high level of professionalism and is committed to go above and beyond to ensure clients' satisfaction.

Mr. Kanazir has a master degree in Geodesy from the University of Zagreb in Croatia.

LANCE KINNEY



Dr. Kinney is the executive director of the Texas Board of Professional Engineers and Land Surveyors.

He has been with

the board for seventeen years and is responsible for all agency programs and activities, including legislative, rule, budget, and policy issues, and represents the board at statewide, national, and international functions. He also gives licensing and ethics outreach presentations all over the state at universities, companies, and associations.

Prior to working at the board, he worked in the semiconductor industry for 11 years. He has a bachelor's degree in Physics from the University of Texas, a master's degree in Industrial Technology from Texas State University, and a Ph.D. in Curriculum and Instruction focused on Learning Technologies from the University of Texas. He has lectured as an adjunct professor in the Engineering and Technology Department at Texas State University and Electronics and Advanced Technologies Department at Austin Community College.

LAUREN KIRK



Lauren Kirk serves as the geographic data coordinator within the Texas Natural Resources Information System (TNRIS) division of

the Texas Water Development Board (TWDB). Through the StratMap Program, she coordinates and manages the statewide Land Parcel and Address Point data initiatives. Lauren began her career at TWDB in October 2015 as an intern with TNRIS working in the Research and Distribution Center (RDC) and transitioned into a permanent position in late 2016. Lauren has worked extensively with TNRIS' vast historical imagery collections and was instrumental in the archive's reorganization and ongoing transition to public digital access. Lauren received her Bachelor of Arts degree from the University of Texas at Austin and her GIS Certificate from Austin Community College.

JASON KORD



Jason Kord is a GIS professional with 24 years of GIS experience. He has worked in both the private and public sectors

with experience in publishing, energy transmission, water resources, and transportation.

Jason creates maps and processes data but also works to create tools and applications to assist ENV in navigating the NEPA process.

He has four kids ranging in age from 3 to 24 and will, therefore, be working at TxDOT until he is 95 years old.

GAYLA MULLINS



Gayla Mullins is the program manager of the Strategic Mapping (StratMap) Program at the Texas Natural Resources Information System

(TNRIS), a division of the Texas Water Development Board (TWDB). Through the StratMap Program, she leads statewide aerial imagery projects and assists the team with other statewide geospatial data acquisition initiatives. Prior to her role at TNRIS, she was a research associate at the University of Texas at Austin Center for Space Research. Ms. Mullins holds a Master of Applied Geography degree and a Bachelor of Science degree in Geography, both from Texas State University.

DAN M. NEAL II



Dan has been with TxDOT for 18 years. He currently manages the PEPS Center of Excellence, which supports the department's

annual procurement planning efforts, provider selection, contract development & negotiation processes, and project management & contract management. This includes the precertification program and staff development and training.

Prior to PEPS, Dan worked in the Department's Design Division and Environmental Affairs Division, other state agencies, and the private sector.

Dan earned his B.S. in Petroleum Engineering from the University of Texas at Austin. He is a licensed professional engineer and a licensed professional geoscientist. He is also a member of ASTM.

JEREMY NOBLES



Jeremy Nobles is the GIS coordinator at Texas Parks & Wildlife Department in the IT Division in the Austin Headquarters office. He holds a Bachelor

of Science degree in Environmental Science from Stephen F. Austin State University. Jeremy has over 20 years of experience in the GIS industry that include the private sector, local government and state government, taking him from Las Vegas, NV to Tyler, TX and now Austin.

He started with TPWD as a GIS specialist in the State Parks Division in 2012 focusing on Texas state park initiatives and needs. However, his current role offers opportunity to apply experience, guidance and support across all divisions within the department.

JIM REID



Jim is an Austin native and attended the University of Texas at Austin on a Navy ROTC Scholarship. He was commissioned as an ensign in the U.S.

Navy and was awarded a Bachelor of Arts in Geology in December 1988. After completing flight training, he was designated a naval aviator in May 1990 and completed 9 years of active duty flying the H-46D Sea Knight Helicopter, HH-1N Huey Helicopter, and the UC-12B Huron Aircraft.

Returning to Austin in 1998, he flew for various corporations out of the Austin area before coming to work for the State Aircraft Pooling Board in 2001. He is an airline transport Rated pilot with over 8000 hours of flight time in over 30 different aircraft. He retired from the Naval Reserves after 30 years of service in January of 2019.

He is currently an Aircraft Pilot II flying the Phenom 100EV and the UAS Program Coordinator with TxDOT.

CAMERON SCHMEITS



Cameron Schmeits is a research associate in the Dallas-Fort Worth region for the Center for Transportation Research of the

University of Texas at Austin. He started working in the transportation visualization field in 2009 as a graduate research assistant at UT Austin. After getting his master's degree in 2011, he started as a research fellow working full time as part of the TxDOT team on the LBJ Express project doing computer visualization during the construction phase. After completion of the LBJ Express project, the Fort Worth District requested Cameron work on the North Tarrant Express project. Cameron has utilized numerous visualization technologies over the past 10 years such as 3D and 4D modeling, and most recently is utilizing virtual reality to assist TxDOT with engineering analysis, public information, and communication among various stake holders. Cameron is married with a daughter and lives in Denton, TX.

MELINDA BECKER SKILLERN



Melinda Skillern is a Right of Way attorney with a background in Real Estate, Land Title, Title Insurance, real estate development, and

Business law. She currently serves as the Right of Way attorney for West Texas. Although based out of the El Paso District, she serves five of TxDOT's district offices.

Ms. Skillern started her legal career in Dallas with a private real estate development firm specializing in resort property acquisition and business licensure and formation. She transitioned into title insurance for a decade, serving as legal counsel for several title insurance companies. In 2013, she was excited to come on board as a Right of Way attorney for TxDOT, serving the west Texas district offices. She has almost 20 years of experience in real property acquisition and disposition, title, condemnation, business, licensure, and development law, including 10 years in private practice. She has been an attorney with TxDOT's Right of Way Division since 2013.

Ms. Skillern received her BBA in 1999 and her Juris Doctor in 2002, both from Southern Methodist University. She has been active in the Texas Land Title Association, the Texas Bar Association, the El Paso Bar Association, Texas Young Lawyers Association, the El Paso Women's Bar Association, and the West Texas chapter of the International Right of Way Association. She volunteers with the Junior League of El Paso. When she is not busy with her two daughters, She is an avid skier and can be found on the slopes in Colorado and New Mexico whenever the opportunity presents itself.

ANTHONY THOMAS



Anthony Thomas has worked as TxDOT's investigations section director since March 2012. In that time, he has managed over 800 occupational

fraud and EEO investigations, as well conducting fraud and ethics training throughout the country.

Anthony started his investigation career as a child support enforcement special investigator with the Texas Attorney General's Office, he then moved in 2002 to the Travis County Sherriff's Office working as a deputy sheriff. In 2005, Anthony went to work for the City of Austin Auditor's Office, ending his time there as the lead investigator for their Integrity Unit until he moved to TxDOT in 2012. Anthony attended Texas State University where he received his bachelor's degree in Social Science. In addition to fraud and ethics training, he has conducted numerous interview courses throughout the compliance and audit profession.

Originally from Northern California, Anthony resides in Buda TX with his wife, daughter and their dog Lilly. He has a son who is completing his last year of Texas Tech's PharmD program, Go Red Raiders.

