TRAM SUMMIT 2023

Mobility's Next Frontier

OCT 2-3, 2023

Presented by
TULSA INNOVATION LABS®

#TRAMSummit
TRAMCLUSTER.ORG

Welcome from Tulsa Innovation Labs

Dear TRAM Summit attendees,

On behalf of Tulsa Innovation Labs, it's our pleasure to welcome you to the 2023 TRAM Summit! This Summit marks both the culmination of several years of collaboration and the beginning of an exciting new chapter in Tulsa's history as a hub for innovation.

At Tulsa Innovation Labs, we harness our region's legacy strengths to support Tulsa's emergence as a tech hub by uniting sectors to address ecosystem gaps, support and expand local assets, and catalyze inclusive growth and economic mobility.

TIL – together with our partners from across the public, academic, and private sectors – developed a vision to make Tulsa a globally-leading hub for the emerging UAS and AAM industries. Powered by $70 million in funding from the U.S. Economic Development Administration and local partners, our community is making bold investments in the workforce, R&D, testing, and industrial assets to make this vision a reality.

TRAM Summit aligns powerfully with this vision, showcasing the top-tier expertise and innovation assets in our region while inviting collaboration from across the nation and the world.

During your time here, you will hear from cutting-edge startups, influential national leaders, and local innovators pioneering the next generation of mobility technologies.

Over the coming days, we encourage you to take stock of the opportunities that exist here in Tulsa, whether you're looking to start or grow your business, hire diverse talent, develop an idea, or collaborate with experts.

As the aerospace and aviation industry undergo an unprecedented period of disruption, the Tulsa community stands ready to offer unparalleled support to those excited about building the future in the Tulsa region.

We hope you'll join us on Mobility's Next Frontier!

Sincerely,

Jennifer Hankins
MANAGING DIRECTOR
TULSA INNOVATION LABS®

Daniel Plaisance
MANAGER, ADVANCED AIR MOBILITY PORTFOLIO
TULSA INNOVATION LABS®

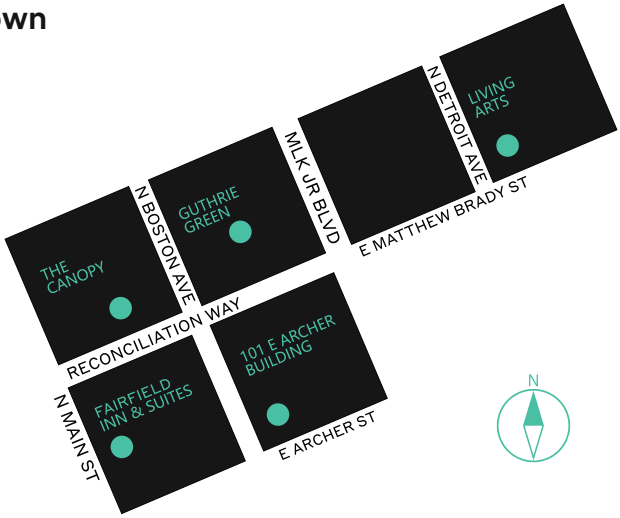
Program Schedule

Monday

OCT 2ND

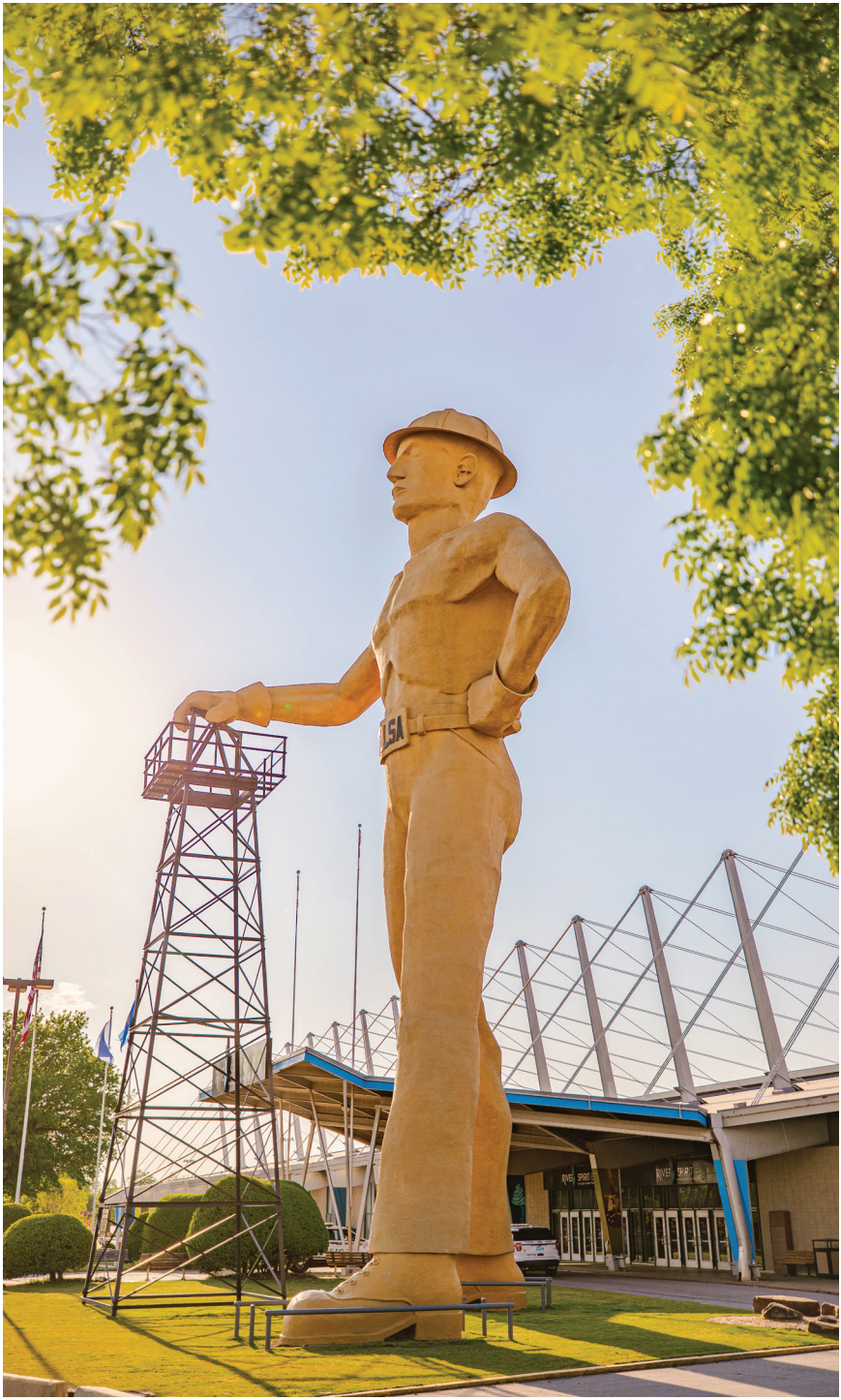
12:00 pm	**UAS Angel Network Startup Showcase** Presented by BloomOK
4:00 pm	**Welcome Reception @ Living Arts** Check In & Cocktails
4:45 pm	**Welcome Remarks @ Living Arts** Jennifer Hankins: *Opportunity Takes Flight*
5:00 pm	**Opening Session @ Living Arts** *Exploring the Frontiers of Science and Human Potential with Dr. Mae Jemison* Introduction by Sharon Rossmark
6:30 pm	**Curated Dinners with Industry Insiders** Tavern, Vault, and Prhyme
8:30 pm	**Cocktails & Networking** Boston Title and Abstract

Downtown Tulsa



Tuesday
OCT 3RD

7:30 am	**Catered Continental Breakfast @ Living Arts**
8:30 am	**Opening Remarks @ Living Arts** Andrew Patton: *Reflections on the State of the Industry*
8:45 am	**General Session @ Living Arts** *Beyond the Horizon: Billy Nolen on Aviation's Next Great Chapter* Introduction by Victoria Natalie
10:00 am	**Breakout Session 1** • *Zero to 100: Accelerating Drone Deployment by Leveraging New Technologies* @ the Canopy • *Stories from the Flight Line: Drone Companies and Regulators Delivering Results Together* @ 101 E Archer
11:15 am	**Breakout Session 2** • *Beyond the Battlefield: Leveraging CounterUAS Innovations for Civil Airspace* @ the Canopy • *Security by Design: Cyber Resilient Future Mobility* @ 101 E Archer
12:30 pm	**Catered Networking Lunch & Interactive Demonstration @ Guthrie Green** (@ Living Arts in case of inclement weather)
1:45 pm	**Breakout Session 3** • *Flying Forward: Charting the Next Generation of UAS Testing* @ the Canopy • *From Compliance to Competitive: Drone Production Insights* @ 101 E Archer
3:00 pm	**Closing Session @ Living Arts** *The Convergence of Critical Tech and Public Policy: A Conversation with Gilman Louie and Rep. Frank Lucas* Introduction by Daniel Plaisance
4:00 pm	**Closing Remarks @ Living Arts** Dr. Jamey Jacob: *Mobility's Next Frontier*
4:30 pm	**Happy Hour @ Living Arts** Presented by Atento Capital



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Keynotes

Exploring the Frontiers of Science and Human Potential with Dr. Mae Jemison

Dedicating her life's work to scientific, technological, and medical advancements, Dr. Jemison explores the frontiers of science and the human potential.

Beyond the Horizon: Billy Nolen on Aviation's Next Great Chapter

Drawing on lessons from an esteemed career spanning government, commercial aviation, and now Urban Air Mobility, Archer Aviation's Chief Safety Officer and former FAA Acting Administrator Billy Nolen provides an insider's perspective on the future of aviation. In a conversation with Dr. Jamey Jacob, executive director of the Oklahoma Aerospace Institute for Research and Education, Nolen will share lessons learned on balancing innovation with safety, insights on the trajectory of regulatory policy, and his perspective on building support for disruptive technologies.

The Convergence of Critical Tech and Public Policy: A Conversation with Gilman Louie and Rep. Frank Lucas

Over the past few years, generational shifts in industrial policy and geopolitics have increased the scale and urgency of investment in critical frontier technologies. Join America's Frontier Fund President Gilman Louie and Rep. Frank Lucas, chairman of the House Science, Space, and Technology Committee, for an insightful discussion on the future of science, technology, and innovation in America. Louie and Congressman Lucas will explore how policymakers and tech leaders can collaborate to nurture entrepreneurship and invest in the technologies and regions that will shape the future of mobility.


NATURE-WORKS
DELMAR SMITH

Panels

Zero to 100: Accelerating Drone Deployment by Leveraging New Technologies

MODERATOR
BRONWYN MORGAN

PANELISTS
DON BERCHOFF
KRAETTLI EPPERSON
LISA PETERSON

Secure and robust future mobility will rely on a complex integration of tools from public, private, and commercial sources. This panel will focus on how innovative companies are commercializing nascent assets and building new ones to make the necessary resources more robust, accessible, and effective for operators and the public.

Security by Design: Cyber Resilient Future Mobility

MODERATOR
LANE PATTERSON

PANELISTS
SURESH DAMODARAN
KRISTOPHER GOINS

As the unmanned aerial systems and advanced air mobility markets mature, the security of both vehicles and infrastructure is critical to safe and trustworthy operation. This panel will explore strategies and best practices for building cyber resilience into emerging aviation technologies and infrastructure from the ground up.

Stories from the Flight Line: Drone Companies and Regulators Delivering Results Together

MODERATOR
PETER SHANNON

PANELISTS
MARK BLANKS
CHARLTON EVANS
ANDREW PATTON
JENN PLAYER
JUSTIN STEINKE

Over the past several years, certain drone operators have set themselves apart by their ability to work productively alongside regulators to build their case for safe operation. In this panel, representatives will share candid reflections on how they have grown companies amidst regulatory uncertainty and discuss the roadmap that will enable them to safely scale operations.

Flying Forward: Charting the Next Generation of UAS Testing

MODERATOR
CRAIG MAHANEY

PANELISTS
GUILLAUME CATRY
CARL DIETRICH
MICHELLE HARPER
DAVID ZAHN

Six years after the FAA's UAS Integration Pilot Program kicked off the first wave of civil UAS testing, dozens of operators have conducted successful test flights, and some have launched large-scale pilot programs. This panel will look ahead to the next generation of testing, exploring how innovative new approaches can supplement existing lessons learned to inform regulation, increase public confidence, and enable safe, widespread commercial deployment.

Beyond the Battlefield:
Leveraging CounterUAS Innovations for Civil Airspace

MODERATOR
SHEA FEHRENBACH

PANELISTS
DREW HENDRICKS
ZACH PETERSON
COL. SHANE RILEY
NANCY SHEMWELL

Recent high-profile events, such as the war in Ukraine, have shone a public spotlight on both the efficacy and the potential threats posed by UAS, increasing the criticality of counter UAS technologies necessary to keep the public safe. In this panel, experts will discuss how lessons and innovations from this period of military disruption can be applied to improve the safety of civil airspace and increase the viability of widespread UAS deployment.

From Compliance to Competitive:
Drone Production Insights

MODERATOR
J.J. SNOW

PANELISTS
JEANNETTE CHU
DON PEARCE
TOBY REDSHAW
TREVOR SMITH

Shifting geopolitics and US industrial policy are poised to disrupt critical supply chains, with enormous implications for the emerging advanced mobility industry. In this panel, foreign trade experts, entrepreneurs, and strategic leaders will share their perspectives on the impact of these changes, as well as advice for businesses seeking to navigate the associated risks and opportunities.

Keynote Speakers

Dr. Mae Jemison

Engineer, Physician, & Former NASA Astronaut

Entrepreneur, engineer, physician, dancer, social scientist, former NASA astronaut, educator and humanitarian, Mae Jemison, M.D. is at the forefront of integrating the physical and social sciences with art and culture to solve problems and foster innovation.

Dr. Jemison leads 100 Year Starship® (100YSS), a nonprofit global initiative to assure that capabilities for human travel beyond our solar system to another star exist within the next 100 years while transforming life on Earth. 100YSS celebrated its 10th anniversary this year with Nexus Nairobi™ – When SPACE, PURPOSE & CULTURE Collide™.

Dr. Jemison served six years as a NASA astronaut and was the first woman of color in the world to go into space and was the Area Peace Corps Medical Officer for Sierra Leone and Liberia.

Dr. Jemison founded technology organizations including The Jemison Group, Inc., a STEM education international science camp The Earth We Share™ (TEWS) and was an environmental studies professor at Dartmouth College. She is a member of the National Academy of Medicine, Chair of the NASA Innovative Advanced Concepts External Council and is on the board of Kimberly-Clark and the National Board of Professional Teaching Standards.

Dr. Jemison is author of *Find Where the Wind Goes*: *Moments from My Life* and Scholastic True Books' 100 Year Starship series. She was the inspiration for the first real astronaut in the Star Trek TV series, LEGO mini- figurine, Astronaut Mae in Sesame Street and voice / inspiration of "Skipster" in Marvel's "Moon Girl and the Devil Dinosaur", series host of National Geographic's "One Strange Rock" and advisor for its global miniseries, "Mars."

Billy Nolen

Chief Safety Officer at Archer Aviation

Billy Nolen is the new chief safety officer for Archer Aviation Inc. He previously served as the acting FAA administrator. While at the FAA, Nolen led the agency's efforts to enable the safe entry of eVTOL aircraft into the national airspace. Nolen has been a strong advocate for the eVTOL aircraft industry and its role in changing the way the world moves. In his new position, Nolen will play a leadership role to help Archer more effectively collaborate with industry stakeholders and help ensure its safe entry into service as it prepares for planned commercialization in 2025.

Prior to serving as FAA's acting Administrator, Nolen headed up the FAA's Office of Aviation Safety, where he led 7400 employees located in Washington headquarters, regional and directorate offices, and 125 field offices throughout the world.

Billy has 34 years of experience as an executive leader in operations and corporate safety, regulatory affairs and flight operations. He served in the United States Army as an airplane and helicopter pilot and safety officer. And as a commercial pilot, he flew the 767, 757, and MD-80 aircraft with American Airlines.

Billy has held numerous executive positions in the airline industry, including at Qantas Group, WestJet, Airlines for America, and American Airlines. He is a graduate of Embry-Riddle Aeronautical University, where he earned a Bachelor of Science degree in Aviation Management. He has certificates in aviation safety from the US Naval Postgraduate School, the US Army Safety Center, and the University of Southern California.

Dr. Jamey Jacob

Executive Director of the Oklahoma Aerospace Institute for Research and Education

Jamey Jacob is the John Hendrix Chair and Professor of Aerospace Engineering in the School of Mechanical and Aerospace Engineering at Oklahoma State University and Director of the OSU Unmanned Systems Research Institute and the Counter-UAS Center of Excellence. He is currently lead on the NASA University Leadership Initiative program WINDMAP to develop aviation weather solutions for advanced aerial mobility applications, including drones and urban air taxis.

Dr. Jacob received his B.S. in Aerospace Engineering from the University of Oklahoma in 1990 and his M.S and Ph.D. in Mechanical Engineering from the University of California at Berkeley in 1992 and 1995, respectively. He was a National Research Council Summer Faculty Fellow in the Air Force Research Laboratory and received the SAE Ralph Teetor Award, the Lockheed Martin Teaching Award, and the OSU Regents Distinguished Teaching Award, among other teaching and mentoring awards.

Dr. Jacob is chapter president of the AUVSI Unmanned Systems Alliance of Oklahoma. He is a native Oklahoman and dedicates much of his efforts to K-12 education, STEM workforce development, and increasing diversity in engineering and science.

Gilman Louie

CEO & Co-founder America's Frontier Fund

The Honorable Gilman Louie is CEO and co-founder of America's Frontier Fund, where he is responsible for the vision and leadership of the organization.

Gilman brings over 30 years of national security and investment experience. He served as an early CEO of In-Q-Tel—the pioneering technology investment firm funded by the CIA—from 1999-2006, as an expert and Special Government Employee to the Defense Innovation Board from 2016-2020, and as a Commissioner on the National Security Commission on Artificial Intelligence from 2018-2021.

In addition to his role at America's Frontier Fund, Gilman is currently the Chairman of the National Intelligence University, Chairman of the Federation of American Scientists, a member of the President's Intelligence Advisory Board, a member of the U.S. Department of State's Foreign Affairs Policy Board, and co-founder of Alsop Louie Partners. He serves on numerous commercial and advisory boards, including Maxar Corporation, Niantic, and Aerospike. He has also served on the Diversity Senior Advisory Panel for the Intelligence Community and as a member of the Technology Advisory Group to the Senate Select Committee on Intelligence.

Gilman is the recipient of the CIA Agency Seal Medallion (2004), CIA Director's Award (2006), Agency Seal Medallion (2006), and Director of National Intelligence Medallion (2008). Gilman received his B.S. in Business Administration from San Francisco State University where he graduated magna cum laude.

Rep. Frank Lucas

Chairman of the House Committee on Science, Space, and Technology

Congressman Frank Lucas is the chairman of the House Science, Space, and Technology Committee.

As chairman, Lucas is committed to ensuring that we, as a nation, harness American innovation improving energy efficiency and effectiveness, support research and basic science labs, improve access to STEM education while building the American STEM workforce, and maintain American global leadership in space exploration.

Lucas represents Oklahoma's Third Congressional District, which includes all or portions of 32 counties in northern and western Oklahoma. He also serves on the House Committee on Financial Services and the House Committee on Agriculture.

Lucas was first elected to the United States House of Representatives in a special election in 1994. He graduated from Oklahoma State University in 1982. Prior to his service in Congress, Lucas served for five and a half years in the Oklahoma State House of Representatives. Frank and his wife, Lynda, have three children and three grandchildren.

Featured Speakers

Don Berchoff

Don Berchoff is the CEO of TruWeather Solutions, a micro-weather analytics company that is building weather resiliency into UAS and e-VTOLs operations.

A highly successful military leader and business entrepreneur, Don has 40 years-experience in weather, aviation and logistics, during which he designed and led regional and global aviation weather operations centers, co-authored the FAA NEXGEN Weather CONOPS and led all ground operations at Manas Air Base, Kyrgyzstan (2007-2008.)

As a Senior Executive Service member, he led the NWS Science and Technology Directorate (2008-2012) and was responsible for the transition of over $500M in new S&T infrastructure and software applications into NOAA operations.

A world expert in complex weather and operations systems, Don is influencing and leading the development of new international aviation weather standards. He has set the stage for a new public/private business model to accelerate the transformation of the weather industry by driving better micro-weather and micro-climate measurements and predictions into society. All at a time when the world has become ever more sensitive to weather and climate changes.

Mark Blanks

Mark Blanks is the Head of Global Flight Operations for Wing where he leads the teams operating and providing aviation support for the Wing drone delivery system around the globe.

Prior to Wing, Mark led the FAA's UAS test site at Virginia Tech and Virginia IPP / BEYOND programs. He also spent several years overseeing UAS research and testing at Kansas State University.

Mark has an extensive background in aircraft maintenance, flight test, and certification. Additionally, he has held leadership positions with ASTM's F38 Committee on Unmanned Aircraft Systems for over a decade and served on the AUVSI Board of Directors.

Guillaume
Catry

After his training in Mechanical Engineering and Space Technologies at the Swiss Federal Institute of Technology in Lausanne (MSc EPFL, 2015), Guillaume co-founded WindShape in 2017, a Swiss firm dedicated to advancing drone testing and certification standards.

One of the company's notable contributions is the windshaper technology – a wind generator designed to simulate controllable and repeatable flight test conditions, allowing drones to be tested and certified in various environments.

Beyond manufacturing lab equipment, Guillaume envisions WindShape at the forefront of drone testing and certification; he sees the company establishing dedicated drone test centers (such as the Tulsa Drone Labs, opening in 2024) and playing an instrumental role in enabling drone autonomy through next generation data management (living digital twin).

His dedication to his career was acknowledged in 2019 when Bilan named him among the 100 most influential individuals in Switzerland's digital technology field.

Jeannette Chu

Jeannette L. Chu is Vice President for National Security Policy at the National Foreign Trade Council, the leading business association dedicated to advancing the interests of U.S. companies in international commerce. In this role, she leads efforts to advance the interests of U.S. business in safeguarding U.S. national security and promoting global security through export controls, sanctions regimes and policy initiatives.

A recognized subject matter expert and thought leader on export controls and trade sanctions, Jeannette joins NFTC from PricewaterhouseCoopers (PwC), where she served as a Senior Managing Director advising U.S. and multinational companies and co-leading the national security regulatory compliance practice. She will continue to hold a concurrent role as a non-resident senior associate with the Trustee Chair for Chinese Business and Economics at the Center for Strategic and International Affairs (CSIS).

Jeannette received her B.A. in Political Science from American University in Washington, D.C. and is a 2020 graduate of Women in Technology's Leadership Foundry program on preparing women for corporate board service. She serves on the Executive Board of Ascend Greater Washington and volunteers as a mentor for Ascend's Corporate Executive Leadership Program, the Women's Foreign Policy Group and Women in Technology.

Suresh
Damodaran

Suresh K. Damodaran currently works at MITRE. Suresh currently develops capabilities and tools for real-time and post-collection analytics, threat emulation, and machine learning for cybersecurity.

He has been credited with over 10 patents, and several papers. His research, career, and innovations are in the areas of cybersecurity, cyber ranges, cyber modeling & simulation, and supply chain software.

His previous employers include Hewlett-Packard and MIT Lincoln Laboratory. Suresh received his Ph.D. in Computer Science from the University of Louisiana, and B.Tech. and M.Tech. degrees from the Indian Institute of Technology, Kharagpur, India.

Carl Dietrich

Carl Dietrich is the Founder/CEO/CTO of Jump Aero where he and his team are developing a high-speed, all-electric, vertical takeoff and landing (eVTOL) aircraft system to help first responders save lives.

At an industry level, he serves as the Chairman of the General Aviation Manufacturers Association's committee on Simplified Vehicle Operations.

He is the author or co-author on three issued patents and multiple pending patents. Carl earned his SB '99, SM '03, & Ph.D. '07 from MIT's Department of Aeronautics and Astronautics. Prior to Jump Aero, Carl founded and led Terrafugia as CEO/CTO from inception in 2006 through acquisition by the Zhejiang Geely Holding Group in 2017.

Carl spearheaded the development of the first integrated roadable aircraft capable of converting between flying and driving in less than 30 seconds. He established and ran a world-class R&D center for Terrafugia focused on the development of novel eVTOL configurations and business plans for the emerging Urban Air Mobility market.

In addition to his work at Terrafugia, Carl helped develop the standards for light sport aircraft on ASTM committee F37.

Kraettli
Epperson

Kraettli L. Epperson is the CEO of Vigilant Aerospace Systems. He has a 25-year career as a technology company executive and is a frequent speaker on unmanned aircraft technology including detect-and-avoid (DAA) and autonomous systems.

He is a member of the FAA's BVLOS Aviation Rulemaking Committee and the ASTM F38 Committee. He has participated in more than 30 unmanned aircraft flight tests and co-authored multiple AIAA papers with NASA and Okla. State University researchers on DAA systems.

Charlton Evans

Charlton Evans is the founder and Chief Executive Officer of End State Solutions, a firm focused on certification and airworthiness for AAM, drone delivery, HAPS and RPAS.

Charlton was a Harrier Pilot and Tactical Air Controller in the Marine Corps and a still flies for business and pleasure as a commercial pilot. Charlton has led several successful civil and military drone certifications as well as historic BVLOS flight operations.

Recently End State Solutions assisted with the FAA type certification of the Matternet M2 delivery drone. Charlton also led historic linear infrastructure and disaster response flights with the type certified ScanEagletm UAS that resulted in the induction of ScanEagletm N202SE into the Smithsonian Institute in 2016.

Today End State Solutions is considered a trusted advisor by both industry and FAA, engaged across the spectrum of Type, Production, Operational approvals as well as regulatory affairs – building relationships that build trust and products that are trusted through certification.

Shea
Fehrenbach

Shea Fehrenbach is the lead of the Counter UAS Center of Excellence at Oklahoma State University's Oklahoma Aerospace Institute for Research and Education (OAIRE).

He graduated from OSU with his bachelor's in mechanical and aerospace engineering in 2014 and then his master's in 2016, with a focus in Unmanned Aircraft Systems (UAS) design.

He spent 6 years working as a missile defense and weapons design engineer until returning to OSU in 2022 to focus on Counter UAS R&D, testing, and integration of CUAS technology into the National Airspace System.

Kristopher Goins

Kristopher Goins is the manager of third-party risk management at Fortress Information Security. In this role, he serves as program manager for the Trusted Cyber Program, a collaboration between Fortress Information Security and AUVSI.

He has more than 15 years of experience in control systems cybersecurity and critical infrastructure protection.

Kristopher is a veteran of the Arizona National Guard, previously serving as governance, risk and compliance manager as well as chief wing information protection officer.

Before joining Fortress, Kristopher was a cybersecurity strategy and governance consultant for KPMG.

Jennifer Hankins

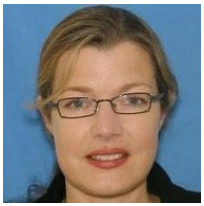
Jennifer is a fierce advocate for innovation and entrepreneurship in the heartland of America, with extensive experience working in Tulsa and the wider region on economic development initiatives.

Jennifer is managing director of Tulsa Innovation Labs. Prior to joining TIL, Jennifer served in the economic development division of the Tulsa Regional Chamber as vice president of entrepreneurship and small business. In this capacity, she worked with area partners to help grow the regional entrepreneurial ecosystem, assisting local startups and small businesses remove barriers to growth and managing the Chamber's business incubator for high-growth startups, The Forge.

Jennifer also managed business retention and expansion efforts at the Greater Oklahoma City Chamber of Commerce. She worked with companies of all sizes throughout the region and assisted them with expansion efforts.

She also worked in the Kansas City region for the Wyandotte Economic Development Council in investor relations and force Catholic Charities of Kansas City-St. Joseph in development.

Originally from Kansas City, Mo., Jennifer completed her undergraduate studies at Oklahoma State University and earned a certificate from the University of Oklahoma Economic Development Institute.



Michelle Harper

Michelle Harper, Ph.D. is a Lead Principal Research Scientist at the MITRE Corporation with a demonstrated history of establishing public-private partnerships and information sharing programs across government and private industries with a focus on integrated and automated, data-informed workflow processes.

Michelle has led national data-driven strategic initiatives focused on the use of artificial intelligence/ machine learning processes, human-machine teaming methods, and the application of advanced analytics to generate actionable intelligence.

Over the past 15+ years, Michelle has been instrumental in the development of a range of data sharing programs and applied research studies supported by the FAA, DoD, NASA, and the National Society for Behavioral Research. She is currently leading the development of a strategic plan for the FAA's Safety Community of Interest, advising on the development of an FAA roadmap for AI Assurance, and directing an FAA initiative focused on the development of an enterprise-wide aircraft lifecycle data model.

Michelle resides in Bentonville Arkansas where she has recently become increasingly engaged with regional UAS and AAM critical infrastructure developments.

Drew Hendricks

Drew Hendricks' 17-year career is eclectic. His training, experience, and education have earned him a broad multidisciplinary skillset: public relations, advertising, socio-cultural anthropology, consumer insight research, communication strategy, and new venture development.

Drew started his career as a Marine Corps strategic communication and operation specialist. During his first four years, he worked as a war correspondent producing media content and planning public affairs communication strategies for various crisis situations: pandemics, hostile military actions and humanitarian relief efforts.

For his next four years, Drew worked as a regional marketing and public affairs director for the Marine Corps Recruiting Command. Later he worked at the national level, consulting executive leaders on diversity and community outreach initiatives.

During and after service, Drew pursued his education. He earned a Bachelor of Journalism and Mass Communication from the University of Oklahoma, and his MBA from the University of Southern California's Marshall School of Business. Drew joined the University of Oklahoma in 2018 as an entrepreneurship fellow and finished his time there as the director of OU Startup Programs.

He now represents the Department of Defense as a regional engagement principal with the National Security Innovation Network.

Craig Mahaney

Craig Mahaney is the President and CEO of DronePort Network, a UAS infrastructure development startup based in Oklahoma City, OK. He has more than 25 years of aerospace experience in the military, government, and private industry.

As CEO, he is responsible for the overall strategy, oversight and execution of all DronePort Network projects and ventures. Craig also serves as the Executive Director of the UAS Cluster Initiative which strives to create an Oklahoma centric industry ecosystem made up of companies, thought leaders, investors, and public partnerships focused on making the state a world class destination for all things Unmanned Aviation and Advanced Air Mobility.

He also leads the UAS Angel Network, an international network of angel investors and venture capital firms focused on investment in the UAS and Advanced Air Mobility industry.

Bronwyn Morgan

Bronwyn Morgan is a sUAS (drone) FAA Part 107 certified pilot, FAA Safety Representative and FAA Drone Pro, and is the Founder of Xeo Air, an AI based drones on demand, data analytics and autonomy platform for mission management that connects B2B clients in telecom, utilities, energy, catastrophic response, and civil infrastructure.

She also leads Airversity Drone Academy + Consulting, a professional UAV pilot training school for Part 107 exam prep, drone flight and private and public safety consulting. She is the 2022 Women and Drones Entrepreneur of the Year Honoree.

Morgan is a graduate of the University of Illinois, Champaign – Urbana. She's worked as a senior leader at P&G and The Coca-Cola Company in strategy, sales and innovation. She also held the role of Associate Director of Georgia State University's Entrepreneurship & Innovation Institute.

Victoria Natalie

Victoria is the Director of Strategic Innovation at Oklahoma Aerospace Institute for Research and Education (OAIRE). She oversees and coordinates engineering efforts, personnel, and strategy related to the institute and is passionate about developing the aerospace ecosystem within the state of Oklahoma and beyond.

Victoria received her bachelor's degree in mechanical engineering from Texas A&M at Kingsville in 2012 and worked as an aircraft structural design engineer for L3 Communications between 2012 and 2017. She started her graduate degree at Oklahoma State University in 2017. Her MS thesis in mechanical and aerospace engineering consisted of studying the uses and applications of combining photogrammetric processes with unmanned aerial systems.

After graduation, Victoria continued working with the Unmanned Systems Research Institute at Oklahoma State, starting as a research engineer, and moving to Director of Engineering in 2021.

Now that she is at OAIRE, she is excited about the potential of the institute and the impact it will have. She works to meet adversity with tenacity and tries to find innovative solutions to systemic and stagnant processes.

Lane Patterson

Lane is CEO and founder of 2Twelve90, an Advanced Mobility Venture Studio.

Leveraging his experience with startups, capital and the $200B in annual government research, Lane is changing how startups are built.

Formerly, Lane was a Senior Venture Partner at MITRE Engenuity, supporting the commercialization of IP from federally funded research and development centers (FFRDCs) and government labs in the aviation, defense, healthcare, homeland security, and cybersecurity fields.

In addition, he has founded and exited multiple companies and held a variety of executive roles across growing tech companies.

He has over 30 years of experience in the technology industry and is a passionate advocate for innovation and technology entrepreneurship.

He has a Bachelor of Science in Business from Kansas State University.

Andrew Patton

Andrew Patton is the Head of US for Manna Drone Delivery. His career has spanned engineering, entrepreneurial, and executive roles across the aerospace and technology ecosystems.

As an engineer, he worked in Boeing's Tactical Aircraft Flight Test group, where he was assigned to the US Navy in support of F/A-18E/F Super Hornet and other flight test programs. After earning an MBA, he worked in Silicon Valley for 6 years at GrowthPoint Partners, a technology-focused investment bank, where he advised on M&A and capital raise transactions across the technology landscape.

After banking, Mr. Patton was recruited to Google and GoogleX, where he held executive roles in several confidential aerospace programs. Subsequently, Mr. Patton's team produced the foundational business strategy for Project Wing and went on to launch the world's first real consumer drone delivery operations in Australia, Finland, and the United States.

Mr. Patton holds a BSE in Mechanical and Aerospace Engineering from Princeton University and an MBA from the Stanford Graduate School of Business.

Donald Pearce

Donald Pearce is a Senior Advisor at Torres Trade Advisory, and a retired Special Agent from the US Commerce Department's Bureau of Industry and Security.

Don is a subject matter expert in strategic trade control policy, transnational criminal investigations, and national security issues, using his 30-plus years in government to keep companies compliant and competitive.

Leading the Global Risk, Monitorship, and Investigations practice, he provides real-world solutions and guidance to companies and governments on security and compliance strategies, due diligence research, and successfully implementing and navigating multilateral trade controls.

His career included prosecuting precedent-setting criminal cases, establishing the Regional Export Control Officer position at the US Embassy in Singapore, coordinating successful interdictions of strategic goods, and protecting the international supply chain through successful public/private cooperative efforts.

Daniel
Plaisance

Daniel leads the Advanced Air Mobility portfolio at Tulsa Innovation Labs (TIL), a philanthropic economic development organization based in Tulsa, OK. In this role, Daniel oversees program development and strategic investments in research & development, testing infrastructure, and workforce development initiatives that build upon the Tulsa region's competitive advantage in aerospace and AAM.

Recently, Daniel spearheaded the development of three projects for TIL as part of the Tulsa Region's Build Back Better Regional Challenge application, which was selected by the US Economic Development Administration as one of 21 winning applications from 529 initial applicants, resulting in ~$70M in funding to develop a world-class advanced mobility ecosystem in Tulsa.

Lisa Peterson

A recognized leader in the telecom and transportation industries, Peterson is VP of Business Development focused on providing FAA-compliant command and control data and voice solutions to both commercial and public sector entities.

While focusing on airspace traffic management technologies enabling safe UAS operations, she's held positions at GE Aviation's AiRXOS, involved with early FAA and NASA R&D programs; and Airspace Link, a LAANC and UAS data services provider.

An active member of WTS (focused on women in transportation), Women and Drones, and AUVSI, Peterson holds a BS in Finance from the University of Maryland, where she also earned her MBA from the UMD Robert H. Smith School of Business.

Zach Peterson

Zach Peterson is the Director of Business Development at Vigilant Aerospace Systems (Oklahoma City, OK) and has a diverse background including manufacturing, marketing, management and product development. He has over 20 years of experience building successful customer management and sales relationships, focusing on the aerospace industry since 2017.

Zach also brings experience with international project management, logistics and resourcing, product launches, go-to-market strategies and sales channel management.

He earned his M.B.A. from the University of Mary in Bismarck, ND in 2008, is a Part 61 Private Pilot and Part 107 Remote Pilot and serves as the VP of the NDIA Northern Tier Chapter, Secretary of AUVSI Great Plains Chapter, Treasurer of ND UAS Council, and Editorial Committee Chair for the Fly-ND publication.

Jenn Player

Jenn Player is Senior Director of Global Aviation Regulatory Affairs at Skydio. Jenn collaborates with customers, regulators, and standards development organizations to advance autonomy and unlock safe and effective docked drone operations.

With over 10 years of experience in uncrewed aircraft systems research, testing, and operations, Jenn's early work to integrate drones into the National Airspace System led to the first long-range BVLOS civil flight in the continental United States.

Prior to joining Skydio, Jenn founded Avineer LLC, a consulting firm helping manufacturers navigate the type certification process and helping enterprises gain approvals for BVLOS and other complex operations.

Jenn participates in ASTM Committee F38, JARUS WG-AW, and the FAA Advanced Aviation/Drone Advisory Committee in working groups on BVLOS operations, detect and avoid technology, remote ID, airworthiness, and autonomy.

She recently served as an industry working group lead on the FAA's UAS BVLOS Aviation Rulemaking Committee. She is a participant on the FAA's Detection and Mitigation Aviation Rulemaking Committee.

Toby Redshaw

Toby Redshaw is a bilingual, multicultural, and transformational global technology innovator, business executive, board member, and board advisor.

He delivered company-firsts, industry-firsts, and world-firsts as he worked on the ground across the U.S., Latin America, Europe, and Asia. His experience spans Silicon Valley; incubators; next-gen startups; Fortune 20 enterprises; the first 5G labs on earth; public and private entities; and military/government. He has extensive supply chain transformation and leadership experience at FedEx and Motorola.

Currently the CEO of Verus Advisory, Toby also held executive roles at Verizon, Kevington Advisors, American Express, Aviva, Motorola, Zoho, and FedEx.

Born and raised in Mexico City, he is proud to be a U.S. Citizen since 2014.

Col. Shane Riley

Colonel Shane Riley is the Oklahoma National Guard's director of operations for military support with more than 34-years' experience in the National Guard with 23 of those years served on active duty.

Colonel Riley is an infantry officer, having served in support of both domestic response missions and combat deployments abroad. Colonel Riley and his staff are charged with overseeing the Oklahoma National Guard's civil support response in emergency and disaster situations, intelligence oversight, base security, and force protection functions for the Oklahoma National Guard, and is charged with developing future capabilities for integration into National Guard domestic and operational support.

Colonel Riley holds a B.S. in biology and an M.S. in human resources administration from East Central University in Ada, Oklahoma, and an M.S. in Strategic Studies from the United States Army War college.

Colonel Riley, his wife Rebecca and their two daughters live in Moore, Oklahoma.

Peter Shannon

Peter is an investor focused on advanced air mobility and its application toward positive impact across the economy. He has been in venture capital 17 years and is founder of Radius Capital.

Peter is active in the aviation community around issues critical to enabling high-scale adoption of aerial mobility systems. He co-authored a national strategy for Advanced Aerial Mobility through the Aeronautics and Space Engineering Board of the National Academies of Science, Engineering, and Medicine and is also an appointee to NASA's Aeronautics Research and Technology Roundtable.

Peter holds an MBA, with High Honors, from the University of Chicago Booth School of Business and a BS in Systems Engineering, with distinction, from the University of Virginia.

Peter started flying when he was 19 and actively maintains a Private Pilot Certificate with Instrument Rating.

Nancy Shemwell

Nancy Shemwell has public and private company experience as a CEO, COO, CRO (CSO) and other senior executive positions.

She recently joined Sentrycs, Inc. as the Senior Vice President – Americas. Nancy was previously the COO of Trilogy Networks, a Board of Adviser member for SMU Cox School of Business, and a Board of Adviser member for EWF International.

Nancy was named Edge Women of the Year 2021 by State of the Edge and Edge Compute World as well as Dallas Business Journal's 2021 Top 20 Women in Technology. She was appointed FCC CSRIC VII (Communications Security, Reliability, and Interoperability Council) Task Force Co-Chair Alternative – Working Group #2, representing the Rural Wireless Association.

Shemwell also ranked #93 in ExecRank's "Top CSO (CRO) Rankings" from 15,000 Chief Sales Officers and C-Level Executives in the United States.

Trevor Smith

Trevor Smith is the Chief Strategy Officer and Co-Founder of Performance Drone Works (PDW), a company that develops and manufactures high-performance drones for commercial and industrial applications. He has over 10 years of experience in the drone industry, and has held a variety of positions in engineering, operations, and sales.

Prior to co-founding PDW, Smith was the Head of Technical Operations at the Drone Racing League (DRL), where he was responsible for the design, construction, and maintenance of the DRL's drone racing courses. He also served as the DRL's Associate VP of Special Projects, where he led the development of new technologies for the sport of drone racing.

Smith is a graduate of Baruch College, where he studied mechanical engineering. He is also a certified drone pilot and has competed in several drone racing competitions.

Jennifer "J.J." Snow

Jennifer "J.J." Snow is a retired Air Force Intelligence Officer and current National Security Operating Partner for Metrea Discovery Partners, an early stage NatSec venture firm focused on investing in dual use tech that results in economic prosperity, national resilience and a strategic competitive advantage for western democracies.

She is also a strategic advisor to the George Kaiser Family Foundation's Tulsa Innovation Lab, CxO Managing Director and CTO-in-Residence for the A.Team, member of the Board of Advisors for LMI, and Founder of Snow Storm Advisory Services which currently supports seven early-stage startups in the dual use defense tech space and two stealth startups.

J.J. served as the Chief Technology Officer for AFWERX, the innovation arm of the U.S. Air Force and the Chief Innovation Officer for SOFWERX and the Donovan Group at Special Operations Command. She was the military representative for total force innovation and technology outreach bridging the gap between government and private sector, academic and non-traditional partners.

Justin Steinke

Justin Steinke is the Senior Vice President of Commercial Business at Spright where he is focused on delivering scalable unmanned solutions into medical use cases as well as providing turnkey inspection services to electric utilities.

With 20 years of aviation experience and start up leadership, Justin brings experience in system design, manufacturing, analytic solutions and communication systems for the DoD and UAS industries.

Prior to Spright, Justin led teams at Volair, LLC, GE Aviation AiRXOS, Data Into Knowledge (DN2K) and Simulyze, Inc., where he was responsible for solutions engineering, product management and strategic business development.

Justin holds a Bachelor of Science degree in Aviation Technology & Finance and is a Commercial Rated Pilot and former Flight Instructor.

David
Zahn

David Zahn is a NASA Ames Research Pilot and Principal Investigator for NASA's Advanced Air Mobility National Campaign (AAM-NC) located at the Mike Monroney Aeronautical Center, Oklahoma City, OK.

David served as a UH-60 Blackhawk pilot in the U.S. Army with previous experience in airfield operations, terminal procedures (TERPS), accident investigation and international flight instruction.

David's background in low-level Air Assault, MEDEVAC and aerial firefighting operations combined with his TERPS experience helped NASA research UAM-specific approach/departure procedures and airspace infrastructure models for AAM research, certification and integration. David is currently assigned as a project pilot flight testing eVTOL capabilities with DARPA and AFWERX programs.

David Zahn graduated from Oral Roberts University in Tulsa, OK where he was also an NCAA Division I athlete.

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