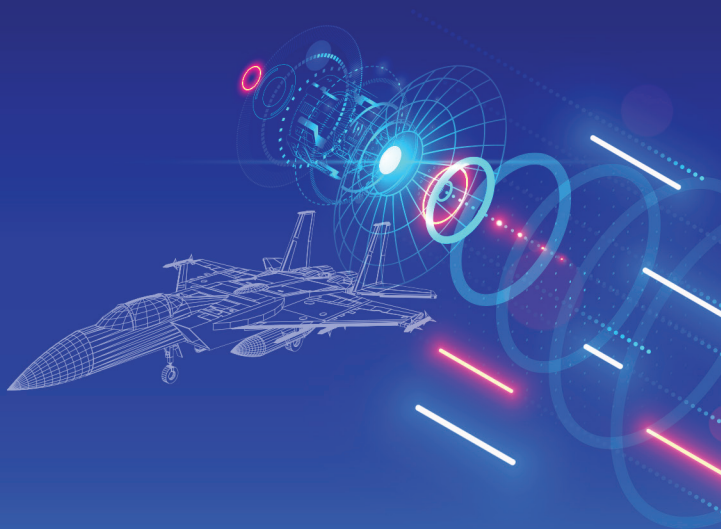




Annual International Test & Evaluation Symposium

December 5-8, 2023
Destin, FL



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SPECIAL SESSION

Thursday, December 7

Digital Engineering / T&E Hack-a-thon Discussion

A diverse group of government, industry primes, and tool vendors took on the challenge to seamlessly integrate directly from a representative mission scenario through mission engineering, systems engineering, and test and back again via digital tools. To make the hack-a-thon a reality the team had to find a digital environment that allowed them all to work collaboratively, link together the model-based systems engineering models with physics-based models and provide the data back to decision makers in an easy-to-understand dashboard. Learn more as we will walk the audience through the process and challenges, provide lessons learned, and set up an introduction for a hack-a-thon v2 planned for next year.

Welcome Attendees!

It is my pleasure to welcome all our U.S. and International attendees to the International Test and Evaluation Association's 40th Annual Symposium. This year's event is hosted by the Emerald Coast Chapter of ITEA, and we're glad that you've taken the time to travel here to beautiful Destin, Florida to learn more about the newest Test technologies from government, industry, and academia in the U.S. and internationally. We have many top leaders willing to share their insights on the future of T&E; and I can't wait for the symposium to start. Make sure to take advantage of all the breaks to socialize in the exhibit hall and meet with our poster presenters, for a deep dive into additional concepts.

I would also like to thank our incredible volunteers who worked tirelessly to bring you this outstanding program. We hope you will be inspired by the program and its educational offerings to get involved with ITEA. And finally, as a benefit of hosting this year, the Emerald Coast Chapter will earn scholarship dollars so we may continue to support the future T&E workforce through financial academic gifts to deserving students.

M. John Rafferty, Jr.

ITEA Board of Directors

Annual Symposium Program Chair

Host Hotel and Venue

Hilton Sandestin Beach and Golf Resort and Spa

4000 Sandestin Boulevard South

Miramar Beach, FL 32550 | +1 850 267 9500

Registration Desk Hours of Operation

Wednesday 7:00 am – 5:00 pm

Thursday 7:00 am – 5:00 pm

Friday 7:30 am – 12:00 pm

Ad-Hoc Meeting Space Available

If you would like a private meeting room to host a small side bar meeting, please see Jenna at the registration desk to reserve your time.

Updated Agenda

Please note, this agenda is subject to change.

We will provide revisions on-site.

AGENDA

Wednesday, December 6 General Session Day 1

- | | |
|------------------|--|
| 8:00 a.m. | Opening Ceremony
South Walton High School Seahawk Sound
ITEA Chairman, Tim Morey
Symposium Chairman, M. John Rafferty, Jr. |
| 8:30 a.m. | Welcome Guest Speaker
Col. Anthony Meeks , USSF, Director & Commander, Munitions Directorate & Eglin Research Site |
| 8:45 a.m. | Keynote Speaker
James S. Wells (SES)
Director, Office of Test and Evaluation, Department of Homeland Security |
| 9:30 a.m. | Keynote Speaker
George J. Rumford (SES)
Director, Test Resource Management Center |
| 10:15 a.m. | BREAK
Poster Papers and Networking Opportunity with our Exhibitors |
| 10:45 a.m. | Panel 1:
Digital Twin Overview and Industry Definition
Moderator: Erwin Sabile , ITEA National 2022 Symposium Chair
This is a follow up collaboration from the 2022 ITEA National Symposium by OSD DOT&E and ITEA Industry Experts.
Dr. William Fisher , Principal Systems Security Engineer, MITRE
John Silvas , Distinguished Engineer, Booz Allen Hamilton
Dr. Bonny Banerjee , Associate Professor, Institute for Intelligent Systems & Electrical and Computer Engineering, University of Memphis
Dr. Jeremy Werner , Chief Science Advisor Chief Scientist, OSD, Director Operational Test & Evaluation
James Sabino , Senior Principal Systems Engineer, Raytheon Technologies |
| 12:00 p.m. | LUNCH |
| 1:00 - 3:00 p.m. | Technical Track Sessions |

TRACK 1: TRMC T&E / S&T Cyberspace Test Technology Overview

Coral A

Moderator: **Pete Firey**, Senior Principal Systems Engineer, MITRE

Start Time:	1:00 p.m.
Presenter(s):	Pete Firey , MITRE
Presentation:	<i>TRMC T&E/S&T Cyberspace Test Technology Overview</i>
Start Time:	1:30 p.m.
Presenter(s):	Arch Owen , Program Manager for Weapon Security, Draper Laboratory
Presentation:	<i>Vader Modular Fuzzer (VMF) - USG Fuzzing Capability</i>
Start Time:	2:00 p.m.
Presenter(s):	Bharath Selvarai , DeciSym, LLC
Presentation:	<i>Measure and Share: TRMC T&E/S&T Cyberspace Test Technology's project to improve Cyber T&E impacts across DoD</i>
Start Time:	2:30 p.m.
Presenter(s):	Owen Cramp , Research and Development Engineer and Bruce Einfalt , The Applied Research Laboratory, The Pennsylvania State University
Presentation:	<i>Automated Attack Framework for Test & Evaluation (AAFT)</i>



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Practitioner certification

will be awarded to candidates with a Baccalaureate Degree and 3 years of relevant T&E work experience (or equivalent) and successfully pass the Practitioner exam.

TRACK 2: T&E in Support of Agile Development Process

 Coral B

Moderator: **Dr. Robin Poston**, Dean of the Moody School of Graduate and Advanced Studies, Southern Methodist University and Research Fellow with the Systems Testing Excellence Program, FedEx Institute of Technology

Start Time:	1:00 p.m.
Presenter(s):	Patrick Quilter, Jr. , ALPI/Scientific Test and Analysis Techniques Center of Excellence (STAT COE)
Presentation:	<i>DevSecOps Process Assessment Collaboration Tool (DSO-PACT)</i>
Start Time:	1:30 p.m.
Presenter(s):	Joe Murphy, Sr , Ansys Government Initiatives
Presentation:	<i>Leveraging Flexible and Interactive Model Based T&E Tools to Improve Efficiency and Effectiveness of Execution Phase Test Programs</i>
Start Time:	2:00 p.m.
Presenter(s):	Amnon Pollak , FAA Automation and Agency Support Branch, ANG-E582
Presentation:	<i>A Collaborative Approach to Verify and Validate a Complex Air Traffic Control System</i>
Start Time:	2:30 p.m.
Presenter(s):	Johnston “Jac” Coil , LinQuist Corporation
Presentation:	<i>Model Based Test Engineering: Incorporating Test Engineering into Digital Engineering</i>



Abstracts

TRACK 3: Artificial Intelligence & Machine Learning



Moderator: **Teresa Dailey**, Technical Advisor, 780th Test Squadron

Start Time:	1:00 p.m.
Presenter(s):	Neil Serebryany , CalypsoAI
Presentation:	<i>Large Language Models and Future Attack Surface</i>
Start Time:	1:30 p.m.
Presenter(s):	Jarrold Cornforth and Bex White , DSTL
Presentation:	<i>Transportable Modelling And Simulation System For Test &Evaluation</i>
Start Time:	2:00 p.m.
Presenter(s):	Andrew Cunningham , QinetiQ
Presentation:	<i>Model-Derived Evidence for Composite Energetic Material Mechanical Properties in Support of Qualification</i>
Start Time:	2:30 p.m.
Presenter(s):	Lance Fiondella , Associate Professor, University of Massachusetts Dartmouth
Presentation:	<i>Predictive Resilience Modeling</i>

TRACK 4: Data Analytics / Modeling & Simulation



Moderator: **Shelby Pearce**, Jacobs Technology

Start Time:	1:00 p.m.
Presenter(s):	Tim Grabert , Nova Systems Australia
Presentation:	<i>T&E Strategy to Validate the Physics-based Modelling of an Uncrewed Aerial System Applied to a Mission Engineering Thread</i>
Start Time:	1:30 p.m.
Presenter(s):	Dr. Joshua Walker , and Michael Coulter , Georgia Tech Research Institute
Presentation:	<i>An Approach for the Evaluation of Open Systems Architecture Compliant Systems</i>
Start Time:	2:00 p.m.
Presenter(s):	Dr. Kyle Kolsti , STAT COE
Presentation:	<i>Demonstration of Bayesian Analysis using Light Aircraft Performance Testing</i>
Start Time:	2:30 p.m.
Presenter(s):	Jarrold Cornforth , DSTL
Presentation:	<i>General Autonomous Platform T&E Test Bed Approach</i>

3:00 p.m.

📍 Emerald
Ballroom ABC

BREAK

Poster Papers and Networking Opportunity
with our Exhibitors

3:30 p.m.

📍 Coastal
Ballroom

Amy J. Markowich (SES)

Executive Director, Digital Analytics
Infrastructure & Technology, Advancement
& Mission Systems Groups, Naval Air
Warfare Center Aircraft Division

4:15 p.m.

Panel 2:

Artificial Intelligence and Machine Learning

Moderator: **Dr. Karen Haigh**, Consultant,
Cognitive Electronic Warfare &
Embedded AI/ML

The panel will provide a high-level discussion
on the field of testing cognitive systems.
We will discuss what major changes in the
way we think need to happen when testing
cognitive systems vs testing traditional
(complex) systems; what the biggest
challenges are and how we evaluate decision
making in testing a cognitive system; and
what sort of testing infrastructure changes
do we need to evaluate cognitive systems.

Dr. John P Hogan, Chief Engineer,
Multimode Sensing and Effects, MORSE
Corp

Dr. Kristen Alexander, Chief Learning &
AI Officer, Office of Secretary of Defense,
Director Operational Test and Evaluation

Dr. Tim Scully, T&E Fellow, Booz Allen
Hamilton

Dr. Laura Freeman, Deputy Director,
Virginia Tech National Security Institute
(NSI), Hume Center for National Security
and Technology

5:15 p.m.

📍 Emerald
Ballroom ABC

Networking Reception with Exhibitors and Sponsors



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Thursday, December 7

General Session Day 2

8:00 a.m.	Opening Remarks ITEA Chairman, Tim Morey Symposium Chairman, M. John Rafferty, Jr.
8:15 a.m.	Featured Speaker Brig. Gen. Michael T. Rawls Commander, Air Force Operational Test and Evaluation Center, Kirtland AFB
9:00 a.m.	Keynote Speaker Dr. Raymond D. O'Toole, Jr. Principal Deputy Director, Operational T&E Special Guests Dr. John Haines , Test & Evaluation Transformation – US Engagement, Ministry of Defense, United Kingdom Dr. Sandra Hobson (SES) , Deputy Director, Operational Test and Evaluation for Strategic Initiatives, Policy and Emerging Technologies
9:45 a.m.	Featured Speaker Doreen Bingo , Chief Engineer, Test and Evaluation, Boeing
10:30 a.m.	BREAK Poster Papers and Networking Opportunity with our Exhibitors
11:00 a.m.	Panel 3: Engaging the Next Generation T&E Workforce Moderator: Terry Murphy , Deputy Director DOT&E, DHS There is a critical need to engage with our next generation to educate, expose, and attract the best and brightest to the test and evaluation (T&E) career field. As our next generation workforce looks towards their future, it is essential that the current T&E workforce educates younger generations about the unique opportunities and impact of a meaningful, influential career in T&E. Additionally, the demand within our society to accelerate the transition of new technologies into operation places T&E in a critical role for the future, both as a feedback loop for technology development and an assurance process for rapidly deploying new technologies. T&E needs professionals who are creative, adaptable, and resilient. So how do we ensure the next generation has the requisite information to attract them into joining the unique and critical career field of T&E as they develop their plans for their own

future? This panel will discuss and put forth ideas to engage with our next generation and the concept of partnering with academia where our younger workforce currently resides.

Dr. Laura Freeman, Deputy Director, VA, NSI)

Dr. Robin Poston, Associate Provost and Dean of Moody School of Graduate and Advanced Studies, SMU

Dr. Mark Gillenson, University Research Professor, Department of Management Information Systems, Fogelman College of Business and Economics, Director, Systems Testing Excellence Program (STEP), UM


Gregory Simmons, Office of University Programs, Science & Technology Directorate, U.S. Department of Homeland Security

Dr. Kristen Alexander, Chief Learning & AI Officer, Director Operational Test & Evaluation

Natalie Heinrich, Student, Virginia Tech

Camile Holley, Student, University of Memphis

12:15 p.m.

 **Coastal Ballroom**

The ITEA T&E Professional Awards Ceremony

12:30 p.m.

 **Emerald Ballroom ABC**

Award Recipient's Luncheon

1:30 p.m.

 **Coastal Ballroom**

Digital Engineering / T&E Hack-a-Thon Special Session

Mr. Kenneth Senechal, T&E Director in the Office of the Commander, Naval Air Systems Command

2:30 p.m.

Technical Track Sessions

ITEA 2023 T&E Professional Award Recipients

Allen R. Matthews Award, **Charles R. Garcia**

Special Achievement Award, **Jenna K. Frye**

Technical Achievement Award, **Advanced Warhead Characterization Team**

Major General Richard G. Cross Award, **Steven G. Potter**

Publications Award, **Christopher Collins** and **Kenneth Senechal**

Dr. Wilson N. Felder, II, Early Career Award, **Corinne Stafford**

Chairman's Award, **Linda Rapp** and **Bob Shinn**

Board of Directors Award, **Dr. Laura Freeman**

TRACK 5: Digital Engineering

 **Coral A**

Moderator: **Pete Crump**, Georgia Tech Research Institute (GTRI)

Start Time:	2:30 p.m.
Presenter(s):	Andrew Cunningham , QinetiQ
Presentation:	<i>Ensuring the Continued Relevance of UK T3E Services through Capability Development</i>
Start Time:	3:00 p.m.
Presenter(s):	Steve Summers , NI
Presentation:	<i>Building Confidence in Model Systems</i>
Start Time:	3:30 p.m.
Presenter(s):	Jeff Tolleson , Director, PeopleTec, and Will Harrell , Chief Technologist, Redstone Test Center
Presentation:	<i>Redstone Test Center's Approach to Digital Engineering & LVC M&S In Support of Army Modernization</i>
Start Time:	4:00 p.m.
Presenter(s):	Vitor Lopes Pereira , M.SC., Digital Twins, Ansys Inc.
Presentation:	<i>Benefits/Challenges of Applying Digital Twins and Hybrid Analytics in T&E Programs</i>

TRACK 6: Electronic Warfare

 **Coral B**

Moderator: **Seth Kootsouradis**, 16th EW Squadron, Eglin AFB

Start Time:	2:30 p.m.
Presenter(s):	David Zurn , and Dr. Craig Arndt , GTRI
Presentation:	<i>Enabling T&E of Cognitive EW Systems through Hybrid Digital Twins</i>
Start Time:	3:00 p.m.
Presenter(s):	Jeremy Twaits , NI
Presentation:	<i>How to Test Cognitive EW Systems</i>
Start Time:	3:30 p.m.
Presenter(s):	Hajin Kim , GaN Corporation
Presentation:	<i>Modular EW Test and Evaluation System</i>
Start Time:	4:00 p.m.
Presenter(s):	Jeremy Twaits , NI
Presentation:	<i>Signal Classification using Deep Learning</i>

TRACK 7: Software & Cyber Testing

 **Coral C**

Moderator: **Antwan Phan**, Communications and Global Positioning System (GPS) Navigation Program Office, Naval Information Warfare Center Pacific (NIWC Pacific)

Start Time:	2:30 p.m.
Presenter(s):	Adam Beard , National Cyber Range Complex-Unclassified (NCRC-U)
Presentation:	<i>A Realistic Wireless Penetration Test of a VA-Representative Network as Performed by DoD Operators</i>
Start Time:	3:30 p.m.
Presenter(s):	Melissa Glazener , BrainGu
Presentation:	<i>Next Generation Test Dominance: DevSecOps Platforms to Deliver Capabilities at the Speed of Relevance</i>
Start Time:	4:00 p.m.
Presenter(s):	Jacob Slattery and Dr. Joshua Walker , Georgia Tech Research Institute
Presentation:	<i>Spider Prime: A Software Testbed Framework for the Evaluation of Open Systems Architecture Compliant Systems</i>


TRACK 8: Test Design

 **Coral D**

Moderator: **Chhem Young-Pen**, Naval Information Warfare Center, Pacific (NIWC Pacific)

Start Time:	2:30 p.m.
Presenter(s):	Scott Busby , QinetiQ
Presentation:	<i>T&E Sovereign Skills Program</i>
Start Time:	3:00 p.m.
Presenter(s):	Austin Ruth and Grace Kaylor , Georgia Tech Research Institute
Presentation:	<i>Improving Flight Test Data Management for Advanced Defense Operations</i>
Start Time:	3:30 p.m.
Presenter(s):	Brittany Fischer , STAT COE
Presentation:	<i>DevSecOps Process Assessment Collaboration Tool (DSO-PACT): A Novel Method to Integrate Traditional T&E into Agile Development</i>
Start Time:	4:00 p.m.
Presenter(s):	Dr. Mark Kiemele , Air Academy Associates
Presentation:	<i>Test Design Optimization</i>

4:30 p.m. **A Beer Garden Social with Exhibitors**

 **Emerald Ballroom ABC**



Friday, December 8

General Session Day 3

8:00 a.m.

 **Coastal
Ballroom**

Opening Remarks

ITEA Chairman, **Tim Morey**

Symposium Chairman, **M. John Rafferty, Jr.**

8:15 a.m.

Panel 4:

Digital Engineering in support of T&E

Moderator: **Jean Petty**, Cyber Resilience
T&E Coordinator, Office of T&E, DHS

Digital Engineering (DE) is an integrated digital approach that uses authoritative sources of systems' data and models as a continuum across disciplines to support lifecycle activities from concept through disposal. Implementing DE presents challenges in the areas of integrated models, shared authoritative data, supporting infrastructure, and developing the workforce. T&E tools, shared data, and verification, validation, and accreditation of models are not yet fully defined and understood as part of the DE ecosystem, presenting major challenges for T&E planning and performance. This panel will discuss T&E challenges, tools, and successes in a Digital Engineering environment.

Christopher C. Collins, Executive Director,
DTE&A, Research and Engineering
(OUSD R&E)

Dr. Amy Henninger, Ph.D., CEH, CISSP,
CMSP, CTFL, Senior Advisor and Branch
Chief for Advanced Computing,
TCD/OS&E-HSARPA/S&T/DHS

Jeff Tolleson, Director, PeopleTec, Inc.

Andrew Cunningham, QinetiQ

9:30 a.m.

Panel 5:

Modernizing T&E to Keep Pace with Technology

Dr. Laura Freeman, Virginia Tech

This panel will discuss new methods and processes for T&E that leverage digital transformation and scale T&E capabilities to be adaptive to rapidly changing Joint environments. We will consider implications for T&E of technologies such as software reliant systems and systems enabled by artificial intelligence (AI). We will also consider how AI capabilities can be leveraged to improve T&E processes. Finally, we will discuss how policy and guidance can support transformation in T&E as technologies evolve.

Jeremy Werner, Chief Scientist, Director Operational Test and Evaluation (DOT&E)

Lindsay Grissom, Senior Solutions Architect, PeopleTec

Jean Petty, Cyber Resilience Test and Evaluation Coordinator, DHS T&E

Christopher Smith, Director Transportation Security Laboratory, DHS

11:00 a.m.	Closing Keynote Col. Michael Christensen , U.S. Space Force, Director, Test and Evaluation
11:45 a.m.	Closing Remarks
12:00 p.m.	Adjournment of the 2023 ITEA Annual International Symposium

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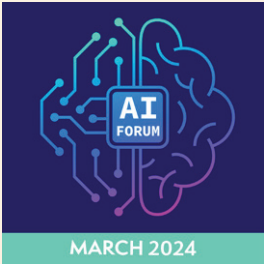


EXHIBIT HALL

Exhibitors

586 th Flight Test Squadron.....	1
PeopleTec.....	2&3
NI (National Instruments).....	5
Ansys.....	6
GTRI.....	7
CRFS.....	8
Geeks and Nerds.....	9
Advanced Test Equip Corp.....	10
Parraid.....	11
Technical Systems Integrators Inc.....	13
Reliance Test &Technology.....	15
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Amentum.....	17
Arnold Engineering Development Complex (AEDC).....	19

Exhibit and Poster Paper Hours

Wednesday, December, 6

- BREAK
- BREAK
- Networking Reception

9:00 a.m. - 5:00 p.m.

10:15 a.m. - 10:45 a.m.

3:00 p.m. - 3:30 p.m.

5:15 p.m. - 7:00 p.m.

Thursday, December, 7

- BREAK
- Beer Garden Social

9:00 p.m. - 5:00 p.m.

10:30 a.m.

4:30 p.m. - 5:00 p.m.

EXHIBITORS

586th Flight Test Squadron, 704th Test Group Holloman AFB, NM

Booth 1

The Air Force's only Prototyping & Experimentation test squadron operating T-38C & C-12 aircraft with organic engineering modification authority, safety & technical planning, program management and flight test execution. Creates test strategies within 120 days of formal customer requirements. Full[1]spectrum flight test including equipment site bed down, flying testbeds, EW and expendables from 120 knots to Mach 1+! Mission To conduct agile, all-domain prototyping, experimentation, and test support.

Advanced Test Equipment Corp. (ATEC)

Booth 10

atecorp.com

ATEC is a leader in test equipment rentals, sales, and service. Since 1981, test engineers have relied on ATEC for its broad inventory, quick shipping, and customer care. ATEC carries EMC, Power Supplies & Loads, RF Safety, Electrical, NDT, Environmental, Communications, and General Purpose equipment.

Ansys

Booth 6

ansys.com

For over 50 years, Ansys software has enabled innovators to push boundaries with the predictive power of simulation. From sustainable transportation to advanced semiconductors, from satellite systems to life-saving medical devices, our software will power the next great leaps in human advancement.

Amentum

Booth 17

amentum.com

Amentum is a leader in global engineering, project management and solutions integration. With more than 50 years of DoD Test and Evaluation expertise, Amentum has a long track record of success supporting MRTFBs in Space, Air, Land and Sea domains. Our people, processes and tools are tailored for your mission.

Arnold Engineering Development Complex (AEDC)

Booth 19

arnold.af.mil

The Arnold Engineering Development Complex, headquartered at Arnold AFB, Tennessee, operates aerodynamic wind tunnels, rocket and turbine engine test cells, environmental chambers, arc heaters, ballistic ranges, sled tracks, centrifuges, and other specialized units across the U.S. AEDC offers test capabilities to simulate high Mach speeds, temperatures, pressures, and other parameters.

CRFS, Inc.

Booth 8

crfs.com

CRFS creates rugged deployable systems to detect, identify and geolocate signals in complex RF environments. We provide end-to-end automated solutions for spectrum management and deconfliction, interference hunting and threat detection, using our intelligent receiver technology, software and advanced analytics. Our RFeye systems are widely deployed by military, intelligence, law enforcement and regulatory agencies.

indyneinc.com

InDyne is a high-technology firm specializing in innovative end-to-end solutions for large, complex Department of Defense contracts for Operations and Maintenance of critical unique test facilities and test and training ranges. InDyne also supports T&E, warfighter training, weapons evaluation, engineering, space and satellite systems, radars/Radar Cross Section facilities, cybersecurity, and UAS/CUAS.

Geeks and Nerds (GaN)**Booth 9**

geeksandnerds.com

Geeks and Nerds (GaN) is an innovative solution developer. Our motto, Innovate with Purpose™, succinctly defines our commitment to provide solutions and services that positively impact our community and national security. Our innovation encompasses the entire spectrum of engineering and science including research, development, testing, evaluation, and training.

Georgia Tech Research Institute (GTRI)**Booth 7**

gtri.gatech.edu

GTRI is the applied research organization of the Georgia Institute of Technology. At GTRI, we develop advanced technology solutions and large-scale system prototypes to address the most difficult problems in national security, economic development, and the overall human condition.

Parraid, LLC**Booth 11**

parraid.com

Parraid is a highly regarded, U.S. based technology and engineering company specializing in product solutions for aerospace & ground tactical applications. Our products include telemetry data systems (TDS), deployable tactical systems, and net-centric everything over IP products. Our mission-critical solutions enable our customers to transform, evolve, and modernize.

PeopleTec, Inc.**Booth 2&3**

peopletec.com

PeopleTec, Inc. is an employee-owned small business, based in Huntsville, AL. PeopleTec lives by our “People First. Technology Always” motto in support of our customers and employee-owners. We provide emerging technology solutions, engineering support, modeling, simulation, and training, cybersecurity, and mission operations and program support to our customers.

Reliance Test and Technology (RT&T)**Booth 15**

rtt-jv.com

RT&T provides engineering and technical support to the Eglin Test and Training Range complex (ETTC) and the National Radar Cross Section Test Facility (NRTF) for the Air Force under the Eglin-Operation and Maintenance Services Contract, better known as E-OMS.

Technical Systems Integrators Inc. (TSI's)**Booth 13**

tsieda.com

Technical Systems Integrators Inc. (TSI's) 'as a Service' automation framework provides standardized environments accessed by a single pane of glass for all aspects of infrastructure and workflow deployment (TSI's Cyber Range as a Service® for example). The environments may include virtual/physical assets as well as legacy, future, or proprietary technologies in secure 'Sandboxes'.