

# SAFE News

Dedicated to Ensuring Personal Safety and Protection in Land, Sea, Air, and Space Environments

SAFE Association – Our 63rd Year

Volume 23 | Number 3 | Summer 2020

## President's Message

Dear SAFE Members, I initially wrote a President's Message for this Newsletter in mid-June, however, in light of a large increase in COVID-19 cases and our recent decision to cancel the in-person Symposium, I had to do some rewriting. As cases of the virus continue to increase in the US, the Board of Directors had a Virtual Meeting on July 16 and formally voted to cancel this year's in-person SAFE Symposium that was scheduled to occur at Virginia Beach since we believe that it cannot be safely held due to the challenges and risks associated with COVID-19. While we could have waited longer to issue the cancellation, this would have hindered us from developing an alternate plan, that being holding a virtual symposium. I was initially against this since I think a poorly executed virtual event can do more harm than good for the members.

However, the Symposium committee has come up with an outstanding proposal where we would have a true virtual conference, not just a bunch of zoom meetings. The committee will be sending out more information on the details, including information on corporate member sponsorship and virtual booths. What was presented to me was truly impressive, and I think that we will be able to pull off an event that provides value and meets the same standards of our traditional symposiums. I would encourage you all to watch for emails from our Administrator, Stacy, and to check the SAFE website frequently for updates on the details of the virtual symposium.

I am also hoping that this virtual symposium can be an opportunity to get additional attendance from our members that would not normally be able to attend, as well as for exposure to colleagues of members and employees of corporate sustaining members.

In the meantime, I know that life over these last few months has been very different for all of us. I have

been teleworking (except for a couple of partial days where I went into the office) for almost 4 months. My last full day in the office was March 12th. While these last few months have been very challenging in some respects, this teleworking, overall, has been very enlightening. After a couple of days getting through the obstacles of the IT interconnectivity, I have found that I have been much more productive working from home than working in the office... for the most part...there is still great advantages to working face-to-face with fellow co-workers. Not having to commute to and from the office has saved me hours each week, but the unfortunate part is that there were limited options on where those "extra" hours could be spent. Hopefully our industry, nation, and world, will be able to learn valuable lessons from this pandemic.

During these difficult times, I know that everyone has unique circumstances, and I hope the best for each and every one of us, and that we can all come out of this stronger and more resilient.

Thank you,

John Plaga

President, SAFE Association

## 58th Annual Symposium is Going Virtual!

As previously announced, the SAFE Association has come to the conclusion that the annual symposium scheduled to take place this year, October 27th – October 29th in Virginia Beach, VA cannot be safely held due to the challenges and risks associated with COVID-19. It was difficult to make the decision, but we feel that it was the most responsible one to make. We want to thank our members and the team at the Virginia Beach Convention Center for their patience, support and understanding while we carefully monitored the situation and evaluated all possible scenarios.

The SAFE Association takes pride in our symposium and looks forward to providing an international forum for the exchange of technical information, product and service exhibitions, and the showcasing of industry capabilities relating to aviation, space, land and marine safety. That is why we feel it's vital to navigate through these times and transform our 58th Annual Symposium into a virtual event. The Symposium Committee has begun laying the foundation for this and is determined to create an event that provides value and meets the same standards of our "face to face" symposiums. Our virtual symposium will bring you the events that you look forward to each year, such as a Keynote Speaker presentation, Industry Day, S&T papers & panels, SAFE Association's General Membership Meeting, Industry & President's Awards, and of course a virtual exhibit hall! Additional details, including schedule and sponsorship opportunities, will be released in the coming weeks. Some important dates that we can provide you with now are as follows:

**Date of Event:** Week of 30 Nov to 4 December 2020.

**Virtual Exhibit Hall:** Open 24/7 from 23 November to 4 December 2020.

**Registration for Exhibitors:** Opens 24 August 2020 and closes 30 October 2020. Notifications on how to register will be posted on the SAFE website on 17 Aug 2020 and sent to all corporate members.

**Registration for Attendees:** Opens 1 September 2020

We wish we were meeting with you all in Virginia Beach this year, but the SAFE Association is equipped to adapt and bring everything possible to your fingertips. We understand that while everyone is planning their way forward, there will be questions. Please do not hesitate to reach out to us! Here are emails where we can be reached for questions/concerns related to the symposium: [symposium@safeassociation.com](mailto:symposium@safeassociation.com), [sym-co-chair@safeassociation.com](mailto:sym-co-chair@safeassociation.com), and [admin@safeassociation.com](mailto:admin@safeassociation.com)

We hope you all continue to remain happy & healthy!

Sincerely,

The Symposium Committee

### *Reminder* to All SAFE Members:

It is important that the SAFE Association has your current contact information so we can contact you and distribute SAFE products, such as the Newsletter. Periodically, please go to the "Member Login" at the top, right corner of the SAFE Association web page. When the SAFE Directory appears, click on "**Update Your Profile**" at the top, left. Please review your personal information and, update anything needs to be changed, and click on "**Save Profile**" at the bottom of the page. Your efforts are much appreciated!!

### UP-COMING MEETING

#### MEETING

SAFE Association  
58th Virtual Symposium

#### DATE

Nov 30 - December  
to 4 December 2020

# Shark Tank said No, SpaceX said Yes! – SeeRescueStreamer onboard mission to protect Astronauts!

**Industry: Technology**

Dr. Rob Yonover and SEE/RESCUE Corporation are thrilled to announce that the historic SpaceX launch on Wednesday, May 27th will have the SeeRescueStreamer technology on board to protect astronauts Bob Behnken and Doug Hurley as they are transported on the first commercial flight by SpaceX up to the International Space Station.

## Honolulu, HI (PRUnderground) May 21st, 2020

Dr. Rob Yonover and SEE/RESCUE Corporation are thrilled to announce that the historic SpaceX launch on Wednesday, May 27th will have the SeeRescueStreamer technology on board to protect astronauts Bob Behnken and Doug Hurley as they are transported on the first commercial flight by SpaceX up to the International Space Station.

SeeRescueStreamer is the military-approved/adopted emergency signaling devices for people that are lost at sea, land, or space. Although all five Sharks (Mark Cuban, Mr. Wonderful, Laurie, Damon, Robert ) on the ABC Shark Tank loved the SeeRescueStreamer technology (Season 8, episode 22), they declined to invest in the streamer technology to ensure that SeeRescueStreamers are available for all outdoor enthusiasts, including boaters, hikers, aviators, military, and more. Despite the Shark Tank setback, Dr. Yonover displayed the hardcore perseverance that he has in all walks of life, including his 19 year stint as caregiver to his paralyzed wife while building the SeeRescueStreamer and raising their small children. Mo Rocca and Alie Ward also covered the technology CBS Innovation Nation,



*“SeeRescueStreamers are not low tech, they are simple manifestations of a clear understanding of the fundamentals of physics applied to real-world situations. Clear understanding of a problem leading to a simple solution takes a lot of high tech horsepower. SpaceX is another example of that. So, it is fitting for streamers to be on the flight.” Dr. Jonathan C. Gradie, Astrophysicist and discoverer of Asteroid “3253 Gradie”.*

Dr. Robert Yonover is a Ph.D. geochemist/volcanologist with a history of innovative scientific contributions, technologies and patents. His Ph.D. work includes multiple ALVIN submersible dives to two miles deep off the Galapagos Islands to retrieve submarine lava samples, with laboratory work performed at NASA Johnson Space Center and MIT. A North Shore big wave surfer and Molokai Channel rough-water fisherman, Dr. Yonover uses the ocean as his laboratory. He has invented a multitude of survival technologies that were awarded U.S. Military/DARPA funding and U.S. Patents. Dr. Yonover’s media credits include appearances on ABC Shark Tank, CNN, PBS, Discovery Channel, and he is the author of Hardcore Inventing, Caregiver’s Survival Guide, Brainstorm Islands (Children’s Book), and Hardcore Health. Dr. Yonover is very active in outreach education and is driven to preserve the creative/innovative spirit of people of all ages.

## About SEE/RESCUE Corporation

SeeRescueStreamer: Military-approved and adopted survival gear for locating persons on land or at sea (Consumer and Military markets). Dr. Robert Yonover is a Ph.D. geochemist/volcanologist with a history of innovative scientific contributions, technologies and patents. His Ph.D. work includes multiple ALVIN submersible dives to two miles deep off the Galapagos Islands to retrieve submarine lava samples, with laboratory work performed at NASA Johnson Space Center and MIT. A North Shore big wave surfer and Molokai Channel rough-water fisherman, Dr. Yonover uses the ocean as his laboratory. He has invented a multitude of survival technologies that were awarded U.S. Military/DARPA funding and U.S. Patents. Dr. Yonover’s media credits include appearances on ABC Shark Tank, CBS Innovation Nation, CNN, PBS, Discovery Channel, and he is the author of Hardcore Inventing, Caregiver’s Survival Guide, Brainstorm Islands (Children’s Book), and Hardcore Health.

# 2020 SAFE Association Elections Opens August 1, 2020

## Nominations Committee

The SAFE Board of Directors has approved a slate of candidates for the membership to consider and elect as Officers to the 2020-2021 SAFE Association Board of Directors. As previously, nominations were due to the Nominations Committee by July 1, 2020.

To that end, the 2020 electronic voting for the slate of candidates will open on August 1, 2020 and end on September 1, 2020. On August 1, 2020, you will receive an email providing your credentials and voting instructions to cast your ballot.



**IT IS IMPORTANT** for members to add [announcement@associationvoting.com](mailto:announcement@associationvoting.com) to your email address book. Failure to do so may result in your email ballot going to your junk mail.

If you have questions, please call the SAFE Administrator, Stacy Stuber, at (541) 895-3012 or email her at [admin@safeassociation.com](mailto:admin@safeassociation.com).

## 2020 SAFE ASSOCIATION – BOARD OF DIRECTORS

### ELECTED BOARD MEMBERS

PRESIDENT, & FINANCE  
COMMITTEE MEMBER  
**John Plaga**

PRESIDENT-ELECT  
**Ebby Bryce**

SECRETARY  
**Kevin Divers**

IMMEDIATE PAST PRESIDENT  
**Edgar "Ted" Poe**

VICE PRESIDENT & FINANCE  
COMMITTEE MEMBER  
**Jerry Reid**

TREASURER & FINANCE  
COMMITTEE MEMBER  
**Steve Bromley**

### APPOINTED BOARD MEMBERS

EXECUTIVE ADVISOR & FINANCE  
COMMITTEE MEMBER  
**Joe Spinosa**

INFORMATION MANAGEMENT  
COMMITTEE CO-CHAIR  
**Harrison Smith**

AWARDS COMMITTEE CHAIR  
**Mark Jones**

SYMPOSIUM COMMITTEE CHAIR  
**Nicole Stefanoni**

SCIENCE & TECHNOLOGY  
COMMITTEE CHAIR  
**Casey Pirnstill**

ASSOCIATION DEVELOPMENT  
COMMITTEE CHAIR  
**Chris Dooley**

SYMPOSIUM COMMITTEE CO-CHAIR  
**Edgar "Ted" Poe**

CHAPTERS COMMITTEE CHAIR  
**Rachael Ryan**

MEMBERSHIP COMMITTEE CHAIR  
**Steve Roberts**

INFORMATION MANAGEMENT  
COMMITTEE CHAIR  
**Stephen C. Merriman**

NOMINATIONS COMMITTEE CHAIR  
**Allen "Al" Loving**

JOURNAL AND EDITORIAL  
COMMITTEE  
**Camille Bilger**

### CHAPTER PRESIDENTS

CHAPTER ONE -  
SOUTHERN CALIFORNIA  
**Kirsten Larsen**

GRAND CANYON CHAPTER  
**Bob LaFrance**

DFW METRO CHAPTER  
**Lizanne Luchetti**

EAST COAST CHAPTER  
**John Marcaccio**

PACIFIC RIM CHAPTER  
**Dr. Robert Yonover**

DOWN UNDER CHAPTER  
**Steve Madaras**

ROCKET CITY CHAPTER  
**Dan Meadows**

SAFE EUROPE - CHAIR  
**Sarah Day**

MIDDLE EAST CHAPTER  
**Mohanad Alakal**

WRIGHT BROTHERS CHAPTER  
**Mark Gruber**

# SAFE Journal: news from an old friend

*By Dr. Camille Bilger, 2020 Journal and Editorial Committee Chair*

When I joined the SAFE Association almost three years ago now, little did I know that I would come to be part in this exciting journey that is the development and publishing of the SAFE Association Journal.

The Journal has a long history within SAFE. It is a humbling legacy to be taking forward. Over the past year, your Journal committee has been working hard to identify the strengths and weaknesses of the SAFE Association Journal; going through a process of questioning, challenging, researching and defining what it means to elevate the SAFE Journal and addressing our issues.

One important goal of the committee is to perfect the Journal and broaden the exposure of our authors' works to researchers in similar fields.

I would therefore like to thank the Associate Editors working alongside me, for their support, expertise, input, and guidance in furthering the SAFE Journal this year; we have lots of work ahead of us in the years to come: Dr. Casey Pirstill, Mr. Glenn Paskoff, Dr. Joseph Pelletiere and Mr B. Joe McEntire, thank you!

The committee has been instrumental in defining a new, revamped and stronger SAFE Journal identity, updating our author guidelines, assessing our peer review and editorial management processes, and securing increased visibility across our international communities.

What we have been implementing and learning has been most helpful and we hope that in the months and years ahead, you will be seeing the fruits of that labor and process. I would like to take this opportunity to welcome any feedback (positive or constructive criticism) from our

members when you get your copy of the new, revamped SAFE Journal!

As the summer gets kicked off, I hope each of you is keeping well under the COVID-19 conditions, and that you will still be able to take the time to enjoy the season and spend time with loved ones. Be SAFE!



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## “How are we doing?”

*By Steve Roberts*

Following up from the very successful SAFE National symposium held last year in Reno, where there were more members and non-members attending than in recent years, the committee felt that it was important to get in touch with everyone to get their views, especially as many are still stuck at home. Later this month, SAFE will be sending out on-line questionnaires to solicit member feedback. How did it go, how could we do better, what is missing, and what do you need to see more of? Would you benefit from credits for attendance and presentations? This information will help us to provide a better service and a more enjoyable experience by adjusting to the needs and wishes of the current membership and attendees. We thank you for taking the time to complete the questionnaire and very much look forward to your feedback! For additional information or feedback, contact [admin@safeassociation.com](mailto:admin@safeassociation.com).

# SAFE Association Secretary's Report

SAFE holds quarterly Board Meetings to discuss SAFE Association business and formulate strategies. These valuable meetings bring together a team of Industry and Government members volunteering their time to ensure the success of the organization. They are the key to developing future plans for the SAFE Association. Meetings are held at various locations that offer insight into Industry and Government operations but, with the current COVID pandemic, we have had to alter how we meet and I think you will find that our Board and Committee members have done a great job of adapting and continue to move the Association forward. The most recent Board meeting was held in a virtual format on April 29 – 30, 2020, allowing great discussion of the future and our next Symposium in particular.

Our April Board meeting included discussion of how COVID-19 may impact our 2020 SAFE Symposium in Virginia Beach. We have been in contact with Convention Center leadership and there are previously cancelled conventions and events outside of SAFE that have re-scheduled around our dates. That brought reassurance, but it was still a moving target when we take into account the military and government employee restrictions on their personnel movement that may still be in place or even what effect a “second wave” may have. We met again in July to see where we were at in terms of holding a safe and responsible in person Symposium. Our Symposium Committee worked diligently to provide options and looked at the various factors within the Convention area and travel from outside of Virginia. **We owe it to our attendees and our industry partners to ensure that there is enough notice of a GO/NO-GO for the Symposium and as you can see we determined a switch to a Virtual Symposium is the best way to support our membership.** We also want to ensure that the Virtual Format provides the education, networking, and ability to connect Industry to SAFE Members. By moving the Symposium date to late November / early December, we are able to provide a quality presentation and experience for attendees. The exhibition hall will also be something to marvel in that the virtual booths will allow each exhibitor to put together quality videos, informational documents, and provide an excellent virtual medium to exhibit their products, services, and company messages.

During our Board meeting in February in the city of Mobile, Alabama, there was a great deal of discussion on how SAFE must evolve to better serve its members and show the rewards in membership. Board President John Plaga provided his vision on the continued evolution of SAFE, and organizational goals and objectives were clarified to better describe the role of SAFE as an International Organization. We also discussed potential changes in Mobile that we believe will bring a great amount of flexibility and improved ability to demonstrate products and for our military and government organizations.

The organization is only as strong as its members! So, if you have ideas or thoughts about how to improve SAFE, please contact me (kevin.proflightgear.com) or another Board member so we can act on them. Please try to attend our general membership meeting that will be held during the 2020 SAFE Symposium.

Finally, the SAFE Association is pleased to see the reinvigorated and increased attendance of members and growth in corporate partnerships over the past few years! The growth in partnering with our military organizations to host and/or support “Industry Days” has also re-emphasized that the SAFE Association is a cornerstone of technology growth and enhanced protection of the personnel in air, land, sea, and space. We are excited to seeing the revived fervor in our many Chapters and expect big things from them this next few years. Most of all, we look forward to seeing you attend the Virtual SAFE Symposium in early December!

## LOOKING AHEAD TO 2021

Though we have not had our 2020 Virtual Symposium yet, please take the time to see a whole new location for information on the 2021 SAFE Association Symposium by watching these videos from our Mobile, Alabama host.

**Mobile Welcomes SAFE Association for 2021:** <https://www.youtube.com/watch?v=tI0aDwXjGLO>

**Mobile: The Food:** <https://www.youtube.com/watch?v=2ABUfFCCw60>

Keep an eye on our SAFE Association YouTube Channel as we post more content from industry and the government.

**SAFE Association YouTube Channel:**

[https://www.youtube.com/channel/UC\\_eBCcgNQUsJ0NutP37h2aA](https://www.youtube.com/channel/UC_eBCcgNQUsJ0NutP37h2aA)

## Grand Canyon Chapter News:

We are now an official Chapter! The first meeting of the Grand Canyon Chapter was held on February 28, 2020 in East Mesa, Arizona. While turnout was lower than anticipated, we were pleased to spend a few hours with like-minded folk who enjoyed similar points of view regarding the social aspects of knowledge sharing.

Our hopes were to expand recruitment for more Chapter members during the Falcon Field Open House scheduled for March 28, 2020, but the world got in the way and that event was canceled due to cautions set in place aimed at social distancing.

In that a new meeting date has yet to be set, while awaiting signs that groups of 10 or more can gather, we are reimagining collaboration, considering additional ways to develop the Grand Canyon Chapters' expansion.

Therefore, as we redefine our methods and develop new ideas for this Chapter going forward, we remain flexible, active, and hopeful, in anticipation of future collaborations. Collaboration increases resiliency, opens new doors, and brings to light unforeseen opportunities.

We hope you can join us, soon.

For more information please email [deb.kalisz@taskaero.com](mailto:deb.kalisz@taskaero.com).

# Welcome

## NEW INDIVIDUAL MEMBERS

**Mark Lehmann**  
Knoxville, TX

**Harrison Smith**  
Near Uxbridge, United Kingdom

**Alexander Gorelik**  
Washington, DC

**Shih Hung Yang**  
Taiwan Province of China

## NEW CORPORATE MEMBERS

**Cartridge Actuated Devices, Inc.**  
Fairfield, NJ

**Pro Flight Gear, LLC**  
Marana, AZ



<https://twitter.com/SAFEAssociatio2>

## OBITUARY: JOHN "JJ" JOLLY

### JULY 11, 1953 – MAY 22, 2020

Mr. John "JJ" Jolly passed peacefully at his home in Madison, AL on May 22, 2020 at the age of 66.

John was born on July 25, 1953 in St. Louis, Missouri. After graduating from high school, he married his high school sweetheart, Brenda, and joined the United States Air Force shortly thereafter. Following his nine years of service with the Air Force he began his civil service career with the United States Army in the Logistics arena. As his civil service career progressed, John became the Army's Aviation Life Support Equipment (ALSE) Manager and retiring from that position in December 2019.

He will long be remembered for his dedicated service to the Army ALSE profession for which he was recognized by the SAFE Association as the recipient of the 2014 General Spruance Individual Achievement Award. John was no stranger to SAFE as he attended a number of SAFE Symposia during his time as the Army's ALSE Manager.

The SAFE Board of Directors offer our sincerest condolences to JJ's family and friends.

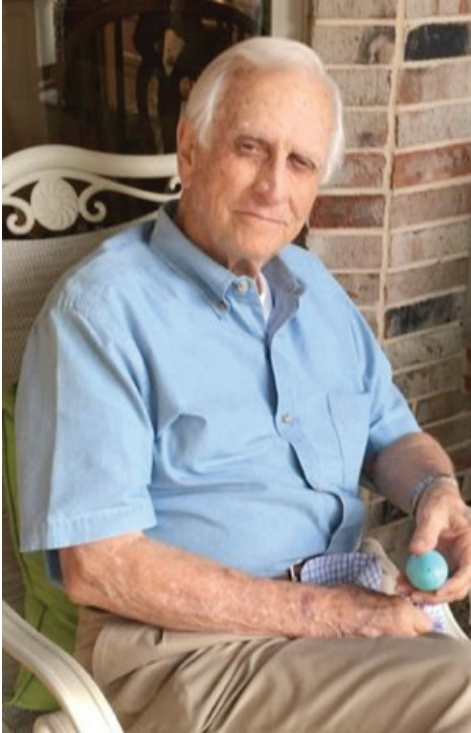


**2014 SAFE Awards Presentation Ceremony. Pictured, Left to Right, are: John Fair, John Jolly, Joel Albinowski, Barry Shope**

# OBITUARY: EVERETT RICHARD ATKINS JR.

**DECEMBER 11, 1926 – APRIL 1, 2020**

Arlington- Everett Richard (Dick) Atkins Jr., went to be with the Lord on 1 April 2020. He was 93 years young and ready to go!



First and most important, he was a devout Christian who loved God and family very dearly and treasured the wonderful fellowship of Parkview Baptist Church in Arlington from 1969 until his departure from this earth.

Richard was born in St. Petersburg, Florida on 11 December 1926. He moved to Beaumont, Texas in 1936 where he attended Beaumont High School and Lamar Junior College. He enlisted in the Army Air Force in January 1944 and attended Aerial Photography School. He was training as a B-29 Aerial Gunner when the war ended. He went on to win a commission and attended pilot training as a student officer. He returned to Beaumont, Texas after separation from the US Air Force in 1948 and worked as a Structural Steel Designer until recall to the Air Force in 1951.

He served in France as a Unit Commander and was separated in 1953 and immediately joined Chance Vought Aircraft Company (later LTV Aerospace corporation) and worked as a Design Engineer, Research and Development Engineer and was a Technical Project Manager at retirement in 1990. Mr. Atkins was well known in Aerospace circles, serving on many industry and Government technical committees and industry organizations. He was President of SAFE Association, Chairman of the Aerospace Industries 340-5 Crew Systems Committee and a long time member of DOD AirCrew Station Standardization Panel.

At the time of his retirement Mr. Atkins headed the Pilot/Vehicle Integration organization at LTV. Among his many accomplishments was the invention of the SENDS Safe Ejection Envelope Display System, a device to keep pilots of high performance military aircraft constantly informed of their safe ejection capabilities.

Mr. Atkins retained his military status, serving with the 136th Fighter Wing (later the 136th Air Refueling Wing) of the Texas Air National Guard at Hensley Field. He retired in 1974 with the rank of Lieutenant Colonel.

Upon his retirement from LTV, Mr. Atkins converted his avocation as an Aviation Writer to a full time profession. He authored many magazine and newspaper articles and several books including Outstanding Military Aircraft of World War II and Fighting Scouts of the 8th Air Force. He was active in World War II historical organizations and was President of the North Texas Chapter of the 8th Air Force Historical Society, Chairman of the Interlink Aviation Task, Executive Director of the Scouting Force Association, Chairman of the Southwest Aviation Museum Council and Director of Museum Activities for the Lockheed Martin Vought Center Retiree Club. He also served as a member of the Governing Board of the Vought Internet Project and was instrumental in developing the history of the Chance Vought Company Website.

Survivors: Preceded in death by his wife of 72 years Marian Burkhart Atkins and son Everett Richard (Rick) Atkins III; Daughters, Terry Craddock and husband Phil, Carol Wampler and husband John. Grandsons Phil Craddock and wife Adela, Johnny Wampler; Grand Daughters Tammy Craddock, Kim Drake and husband Rod, Skye Hasan and husband Fe; 16 Great Grandchildren and 5 Great Great Grandchildren.

The family will have a celebration of Richard's life at a later date.



# SAE International Best Practice Standard on Force Protection and Survivability

The SAE International G-45 Human Systems Integration (HSI) committee is developing a new best practice standard on Force Protection and Survivability (FP&S).

According to DODI 5000.02, Force Protection and Survivability (for the DoD) is defined as follows: “ Force Protection and Survivability. The Program Manager will assess risks to personnel and address, in terms of system design, protection from direct threat events and accidents (such as chemical, biological, and nuclear threats). Design consideration will include primary and secondary effects from these events and consider any special equipment necessary for egress and survivability.”

- From a system perspective, FP&S considerations include such factors as:
- System design features that reduce risk of threat encounter
- System design features that reduce the probability of fratricide
- System design features that reduce the probability of being hit by a threat
- System design features that minimize damage from threats
- System design features that minimize the probability of injury or death
- System design features that facilitates vehicle or threat zone egress
- Personnel Situation Awareness (SA) of potential and existing threats
- System design features that adversely affect personnel workload and fatigue, especially during extended operations

This standard will cover the program planning, requirement management, analysis, design support, requirement verification, risk management and documentation (not design criteria) required in support of a system acquisition project.

Thus far, three SAFE Association members (recognized survivability experts) have volunteered to assist with development and review of the standard. If there are any others who are interested in participating in this development effort, please contact Steve Merriman at 214-533-9052 or [scmerriman@tx.rr.com](mailto:scmerriman@tx.rr.com).

## *Attention Corporate Members*

## **Please Send Us Your Advertisements!**

The SAFE membership is eager to hear about what is going on with your organization! Members want to hear about anything new...like job openings, internal promotions, new products, recent contract awards, accomplishments, plans, and patents. It is up to you! SAFE members are interested in what is going on with your organization and your product lines. Please consider sending articles for future SAFE News editions. They should be sent to:

- Stacy Stuber                      [admin@safeassociation.com](mailto:admin@safeassociation.com)
- Steve Merriman                    [scmerriman@tx.rr.com](mailto:scmerriman@tx.rr.com)

## Reminder: SAFE Association Benefits!

### INDIVIDUALS

- Quarterly SAFE Newsletter
- Proceedings from the SAFE Annual Symposium
- All Symposium-related Mailings
- Reduced Symposium registration cost.
- Access to members only area of the SAFE Association website
- Voting privileges for your SAFE Board of Directors
- Submission information for our Annual Awards Program

### CORPORATE MEMBERS

- Quarterly SAFE Newsletter
- Proceedings from the SAFE Annual Symposium
- All Symposium-related mailings
- Reduced Symposium registration cost.
- Access to members only area of the SAFE Association website
- Voting privileges for the SAFE Board of Directors
- Submission information for our Annual Awards Program
- Corporate listing and description of products and services on SAFE Association website with link to company website.
- Reduced registration and exhibit space fees for the SAFE Annual Symposium
- Free use of the SAFE Newsletter to deliver news releases- such as personnel changes, new products, new office locations, and contact information
- Corporate Membership includes a Primary and Secondary Corporate Representative

## Report on the Virtual DODI 5000.02 Human Systems Integration Workshop

On 23 January 2020, DOD published a new DODI 5000.02. If you've not read it yet, you may be thinking, "yes, no big deal, it gets updated every couple of years." This revision is a big deal, starting with the title: "Operation of the Adaptive Acquisition Framework." This instruction is more revolutionary than evolutionary. Whereas the previous versions described a single and very detailed acquisition process, the new version describes six separate but interacting pathways: Urgent Capability Acquisition; Middle Tier of Acquisition; Major Capability Acquisition; Software Acquisition; Defense Business Systems; and, Acquisition of Services.

Another interesting characteristic of the new DODI 5000.02 is its length - just 17 pages long, compared to more than 100 pages in the previous version. All enclosures in the previous version have been removed. Those enclosures will eventually become standalone policies. For example, the information formerly contained in Enclosure 7, "Human Systems Integration (HSI)" has been updated and soon will be published as DODI 5000.PR, "Human Systems Integration in Defense Acquisition."

DODI 5000.PR provides language that better supports the general practice of HSI in the acquisition process but does not specifically address how HSI should be implemented in the six new acquisition pathways. Therefore, in January 2020, the HSI faculty at the Naval Postgraduate School (NPS) submitted a proposal to conduct an Adaptive Acquisition Framework (AAF) workshop at the May 2020 DOD Human Factors Engineering (HFE) Technical Advisory Group (TAG) at Port Hueneme. The purpose of the workshop was to gather knowledgeable HSI practitioners from across the DOD, federal government, the defense industry to identify the essential HSI activities for each pathway, and recommend the tools, techniques, approaches, and methods (TTAMs) that should be employed by practitioners. The outcome of the workshop was expected to feed directly into HSI training and education programs and be made available for use in policy and guidance updates.

COVID-19 scuttled the TAG meeting but not the AAF workshop. With support from the DOD HFE TAG leadership, the NPS HSI faculty planned and executed a virtual AAF workshop on 8 May, the same day the in-person workshop was scheduled to take place. Prior to the workshop, emails were sent to HSI practitioners, seeking their participation, and asking them for their pathway preferences. More than 60 HSI practitioners assembled online using video conferencing software. The workshop began with a presentation by Mr. Mike Coolican, Defense Acquisition University on the intent of the AAF and the general content of the six pathways. Thereafter, the attendees were sent to one of six virtual breakout rooms, where they collaborated on a spreadsheet to identify the essential HSI activities and TTAMs for the phases of their assigned pathway.

At the end of the workshop, the six teams re-assembled in the main session and presented their results. The overwhelming consensus was that the workshop was very successful but there was more work to be done! Nearly all the participants agreed to continue working with their respective teams over the next few months to refine the HSI activities and TTAMs for their pathways. The NPS HSI faculty hopes to receive the products from the six teams by the end of August and to complete a final report by the end of September. If anyone is interested in working with one of the pathway teams, please contact Larry Shattuck, Director, Human Systems Integration Program

NPS, lgshattu@nps.edu, 831-656-2473.

# The Evolution of a DAQ

## How soldier safety inspired an in-flight data recorder.

### U.S. Army WIAMan Inspired

When California-based Diversified Technical Systems created the SLICE6 miniature DAQ for the U.S. Army vertical load manikin, the mission was firmly on-the-ground focused on underbody blast and soldier injury testing. WIAMan program goals were clear: biofidelity, durability, repeatability and reduced cabling. Mission accomplished on all points, including an estimated 75% reduction of sensor cabling.

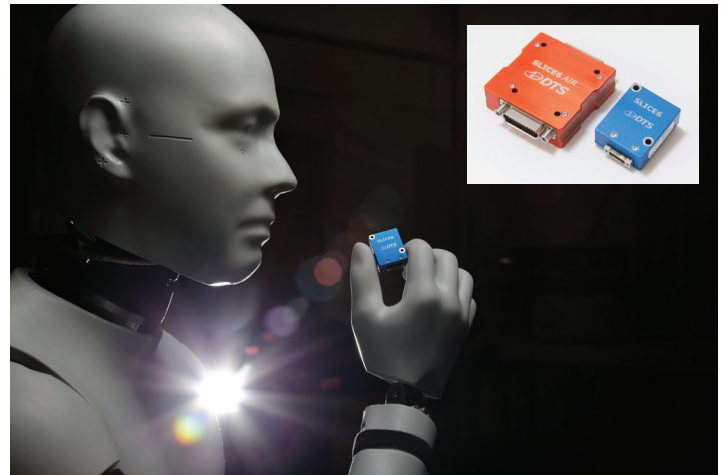
While WIAMan and SLICE6 caught the attention of aerospace and defense agencies, it soon became evident that more innovation was needed to move this to the air.

### Test Engineers Know

“There were three challenges we heard over and over about using conventional data acquisition systems for flight testing. Size, weight and set-up time,” said Steve Pruitt, DTS CEO. (1) Running a massive amount of sensor cabling is time consuming, costly, and it can alter dynamic response, especially for rotating applications. (2) Traditional DAQ systems are heavy, but it’s the endless meters of sensor cables that tip the scales. (3) While size obviously restricts where systems can be positioned, it can also limit access to new points of interest.

### SLICE6 AIR Takes Flight

“The same overarching goals of WIAMan applied,” explained Pruitt. “Make the unit small, low mass and low power so it can be positioned near the point of interest.” While based on the original SLICE6 architecture, the SLICE6 AIR airborne version is Ethernet-based and environmentally qualified for flight testing (shock, vibration, temperature, altitude), plus it has aircraft compliant power. “It’s easy to add few SLICE6 AIR modules for compatibility testing or it can be fully integrated into existing FTI,” Pruitt added. Signal conditioning helps eliminate noise issues and reduces the need for slip rings. In addition to 16GB flash memory, SLICE6 AIR offers real time streaming in IRIG-106 (Ch10 or TmNS). Also added are universal analog sensors support (IEPE, thermocouples, Bridge) and time synchronization (1588, GPS or IRIG-B) to expand capabilities.



**Based on the SLICE6 data acquisition unit DTS developed for the U.S. Army WIAMan blast manikin, SLICE6 AIR adds capabilities specifically to address challenges in the flight test community.**



**The standalone SLICE6 AIR is ideal for rotary & fixed wing, UAV, eVTOL, captive carry, modification testing, commercial launch, destructive testing and more.**