



SAFE News

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

SAFE Association – Our 63rd Year

Volume 23 | Number 1 | Winter 2020

President's Message *By John Plaga, 2020 President*

SAFE Members,

I want to start off first for thanking each and every one of you for your membership in the SAFE Association and the Chapters...whether you have just joined or have been a member for several decades, your continued support keeps this association and its goal of the preservation of human life alive and thriving. I also want to thank the membership for allowing me the opportunity to represent you as the President of the SAFE Association. I'm honored to follow in the footsteps of some of the past presidents, many of whom I consider to be my friends and mentors. As we get back to our busy lives following the holiday season, we on the SAFE Board of Directors are busy planning for the future of the organization. As I had mentioned earlier, the immediate past president, Ted Poe, did an outstanding job of moving the organization along over the past two years, and my hope is to continue that progress and bring the goals into reality.

While there are other articles in this newsletter specifically about the recent Symposium in Reno, I quickly wanted to reiterate the success that we had in October. This was one of the most attended Symposia in the recent decade with approximately 650 attendees, 87 technical presentations, and 58 companies exhibiting. I received a lot of positive feedback on some of the new features that were added to the Symposium this year, including the video highlights of the corporate members. I want to thank the Symposium Committee (Nicole Stefanoni, Al Loving, Ted Poe, and Stacy Stuber) for pulling together an awesome show! The committee is now hard at work getting ready for the next Symposium at Virginia and searching for the next few venues as well.

Back to the goals for the Association...my primary objective is to bring VALUE to the members. Value has two components: cost and benefit. Just because you can buy a widget for low cost, it doesn't have value if it doesn't work or if it breaks really quickly. The goal is to provide members the maximum benefits at a reasonable cost. We recently rolled back our individual membership cost to \$30 per year, with a new member cost of only \$10. This is the lowest membership cost for any professional organization that I have seen. But, we still want to give the members a good return. As I mentioned in previous newsletters and during the Symposium, I want to start a job board on the SAFE Website for corporate entities seeking employees and individuals looking for employment. Many long-time members already have a great network of individuals within the association that they can contact if they are looking for employment, and I know of many who were quickly hired when their previous contract ended or when they retired from military service. However, I think there is a real value in offering this service to our newer members or the members who may not be able to attend the Symposium and network with others. I hope to begin rolling this out fairly soon, perhaps first for the corporate entities to list job openings, then later for individuals seeking employment.

There are other ideas that we have to provide more value to our members, and I hope to be rolling those out over the next several months. In the meantime, if you have any ideas on how we can provide more value to you as members (both corporate and individual), please shoot me an email at president@safeassociation.com.

2019 SAFE Symposim Recap *By Nicole Stefanoni, 2020 Symposium Committee Chair*

As we roll into the New Year and prepare for the next Symposium, we must take a moment to reflect on last year's 57th SAFE Symposium. It's hard to believe that four months have passed since the completion of another successful event. Below is a recap of how the week went.

The weekend before the Symposium began, the Grand Sierra Resort in Reno, Nevada welcomed many familiar faces that made up the 54 exhibitors and 668 attendees. While some were busy setting up in the exhibit hall, there were others who took advantage of the events that were planned - even some overachievers that did both! Sunday morning kicked off with our Golf Tournament, which welcomed all skill levels. Thank you Ebby Bryce for organizing this event once again! Later in the afternoon, the 10th Annual 5K Run began. As always, there was a large turn out and enjoyed by all participants. Thank you to Marcia Baldwin and volunteers for a great event! Sunday finished off with SAFE's Get Acquainted reception, which is always a good time to catch up with old friends and get a jump start on business opportunities.

Monday morning began with an opening presentation from 2019's SAFE President, Edgar Poe. The achievements of the past year were discussed with a look into what is in store for 2020 and beyond. Next on stage was our Special Presentation Speaker, the Honorable Richard Healing. Mr. Healing is a professional engineer and an internationally recognized transportation safety expert. He also serves as Vice Chairman to the National Commission on Military Aviation Safety. Mr. Healing discussed the current issues that our industry face as well as a brief background on what the National Commission on Military Aviation Safety is accomplishing.

Following Mr. Healing's presentation, the SAFE Awards were presented,



Mr. Dick Healing Keynote Speaker

and the 2019 and 2020 Board of Directors hosted our General Membership meeting. This year, the meeting saw the adoption of our updated By-laws and Constitution. This effort, thanks to numerous members, means our Association is ready for 2020 and beyond. After the General Membership meeting, the exhibit hall was opened, and our SAFE Awardee Luncheon began. With lunch, our exhibit hall was found to be full and busy for all to browse booths to learn more about what industry had to offer. Monday also included the start of our Technical Program sessions which consisted of over 70 papers that covered topics such as Biomechanics, Hypoxia, Hearing Protections, CAD/PAD, Systems & Safety, and Search & Rescue. The day concluded in the exhibit hall for our evening reception that had food, refreshments and Monday Night Football playing on a big screen.

Tuesday started early and was jam packed with our technical sessions. The exhibit hall was busy and side rooms were utilized to the max. Later in the day, exhibitors and attendees enjoyed another SAFE sponsored reception in the exhibit hall. Wednesday's highlights included additional presentations - first on stage in the afternoon was Mark Ruddell. Mr.

Ruddell has worked for 14 years as an Aerospace Engineer at the Headquarters, Air Force Safety Center, investigating mishaps for all types of aircraft flown by the US Air Force. His briefing provided the audience a look at the USAF Aircraft Accident Statistics and findings for 2019. After lunch, everyone was welcomed back to the Reno Ballroom to hear presentations from Emilio "V" Varcarcel, Greg Crewse, and Paul Waugh. Mr. Varcarcel is the Senior Material Leader, Human Systems Division, Agile Combat Support, Wright-Patterson Air Force Base, Ohio. Mr. Crewse is Deputy Aircrew Systems Program Manager who has over 39 years of US Navy Operational and Acquisition related leadership experience. Mr. Waugh is the Program Executive Officer and Director for the Agile Combat Support Directorate at the Air Force Life Cycle Management Center, Wright-Patterson Air Force Base, Ohio. All three presentations provided updates on current and future aircrew protection equipment development and acquisition programs. Wednesday came to a close with Industry/President Awards. As with any organization, we saw the transfer of leadership between our past President, Edgar Poe, and our 2020 President, John Plaga.

This year we saw an increased number of attendees, as well as several industry events sponsored by the US Air Force and US Navy. Three separate industry days discussing the specific needs of our military were achieved. These events took place during the actual three-day Symposium event and then on Thursday and Friday after our event closed. We would like to thank the US Air Force and US Navy Program Offices for, once again, supporting the Association by their attendance and the success of the Joint Services Aircrew System Industry Days

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2020 SAFE ASSOCIATION – BOARD OF DIRECTORS

ELECTED BOARD MEMBERS:

PRESIDENT, & FINANCE
COMMITTEE MEMBER
John Plaga

IMMEDIATE PAST PRESIDENT
Edgar “Ted” Poe

PRESIDENT-ELECT
Ebby Bryce

VICE PRESIDENT & FINANCE
COMMITTEE MEMBER
Jerry Reid

SECRETARY
Kevin Divers

TREASURER & FINANCE
COMMITTEE MEMBER
Steve Bromley

APPOINTED BOARD MEMBERS:

EXECUTIVE ADVISOR & FINANCE
COMMITTEE MEMBER
Joe Spinosa

SYMPOSIUM COMMITTEE CHAIR
Nicole Stefanoni

SYMPOSIUM COMMITTEE CO-CHAIR
Edgar “Ted” Poe

PUBLICATIONS COMMITTEE CHAIR
Richard Johnson

PUBLICATIONS COMMITTEE
VICE CHAIR
Stephen C. Merriman

SCIENCE & TECHNOLOGY
COMMITTEE CHAIR
Casey Pirnstill

CHAPTERS COMMITTEE CHAIR
Rachael Ryan

NOMINATIONS COMMITTEE CHAIR
Allen “Al” Loving

AWARDS COMMITTEE CHAIR
Mark Jones

ASSOCIATION DEVELOPMENT
COMMITTEE CHAIR
Mark Cianciolo

MEMBERSHIP COMMITTEE CHAIR
Steve Roberts

CHAPTER PRESIDENTS:

CHAPTER ONE -
SOUTHERN CALIFORNIA
Kirsten Larsen

EAST COAST CHAPTER
John Marcaccio

ROCKET CITY CHAPTER
Dan Meadows

GRAND CANYON CHAPTER
Bob LaFrance

PACIFIC RIM CHAPTER
Dr. Robert Yonover

SAFE EUROPE - CHAIR
Sarah Day

WRIGHT BROTHERS CHAPTER
Mark Gruber

DFW METRO CHAPTER
Lizanne Luchetti

DOWN UNDER CHAPTER
Steve Madaras

MIDDLE EAST CHAPTER
Mohanad Alakal

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During the Symposium event, we offered the traditional printed SAFE Final Program; however it was encouraging to see people using the SAFE Symposium APP. We are continuing to invest and improve our APP, as we see this becoming a bigger part of future Symposiums. Something else that we are planning to continue, new this year, was “Education in the Hall.” This gave a select few exhibitors a chance to share a presentation or product demonstration with attendees at their booth. The participation at the booths and positive feedback made it an easy decision to carry this on to our next Symposium. As an organization, SAFE is always looking for new ideas and welcomes suggestions/ comments from all its members on



Virginia Beach Convention Center

how we can improve year to year.

In summary, it was a lively week and it demonstrated the growth that the SAFE Association is achieving. Thank you to all who attended the 57th SAFE Symposium and

thank you to our Sponsors: Collins Aerospace, East/West Industries, PacSci EMC, Dayton T. Brown, Elbit, Survitec, and TEDGAR Consulting. We would also like to thank our AV team led by Mr. Chris Dyer from Touch-USA. Additionally, a special thank you to our excellent Emcee, Dr. Demelza Poe. This event wouldn't be possible without you all. Lastly, to our SAFE Board Members, great work!

We are looking forward to planning and hosting our next Symposium on the East Coast this year at Virginia Beach. Make sure to visit our website and social media pages for updates! Until then, from all of the members on the 2019 and 2020 Symposium Committee..... Think SAFE!

2019 SAFE Awards *By Nicole Stefanoni, 2020 Symposium Committee Chair*

This year during the 57th Annual SAFE Association Symposium, our organization celebrated the achievements of those in our organization. The 2019 SAFE Board of Directors would like to thank every member who took the time to nominate these genuinely talented individuals and teams. To quote Ronnie Oldham, "Excellence is the result of caring more than others think is wise, risking more than others think is safe, dreaming more than others think is practical, and expecting more than others think is possible."

This year, fourteen nominations were submitted and reviewed, including those for individuals who have developed new technologies, increased capabilities, and demonstrated exceptional leadership. The following awards were presented during our Symposium:

The Michael R. Grost Career Achievement Award: This award is presented to a person or persons who, throughout his or her career, have made significant contributions in the field of safety or survival. This year's Michael R. Grost career achievement award was presented to Mr. John Buhrman. Mr. Buhrman is a senior biomedical engineer and team lead for the Aircrew Biodynamics and Protection Section of the Air Force Research Lab, 711th Human Performance Wing at Wright Patterson Air Force Base, Ohio. He started his career working under Dr. Ted Knox, where he led the development of the "Knox Box" helmet safety criteria for head/neck mass properties, conducted human acceleration safety research in regards to flight helmets, and led the development of the biodynamic data bank's public website, allowing researchers throughout the world to access key human biodynamic test safety data. He then developed human research programs to study gender differences in ejection injury risk, which, at the time, was vital data for the DOD's expansion of pilot height and weight acceptance criteria. In 2003, he started as team lead for the lab's performance and safety of biomechanics branch, where he guided and oversaw human and manikin biodynamic research in the areas of spinal, neck injury, fatigue, performance, and ejection safety. For the past 12 years, he has served on the research lab's institutional review board for human subject protocol evaluations.



Mr. John Buhrman - Michael R. Grost Career Achievement Award. Presented by John Plaga, Dick Healing and Edgar "Ted" Poe.

Mr. Buhrman led the effort to expand the Air Force's collaborative biomechanics data network repository to include new areas, such as altitude, vibration, anthropometry, and blast effects on humans. The system now includes eight databases capturing 20,000 human and manikin acceleration and altitude exposures. He is the co-lead for a finite element modeling effort to develop human response and injury models for ejection safety.

Mr. Buhrman served on the F-35 Joint Strike Fighter co-lead ejection seat evaluation team, which was responsible for ascertaining spinal injury to the full range of aircrew occupants during rocket sled qualification testing. He has served as a technical subject matter expert for injury risk criteria on numerous Air Force and DOD related programs and has led and managed multi-million-dollar R&D portfolios, as well as held lead technical, programmatic, and supervisory positions. His distinguished 31-year career on behalf of the Air Force Research Lab in the area of biodynamic safety is truly worthy of recognition by the broader scientific community represented by SAFE.



Lieutenant Commander Heath Clifford - General Spruance Individual Achievement Award. Presented by Dick Healing.

The General Spruance Individual Achievement Award: This award is presented to a person who has made a recent outstanding contribution in the field of safety or survival. This contribution may have been through demonstrating exceptional leadership skills or through their advancement in education, knowledge, science, the application of investigative techniques or engineering, associated with a significant improvement in safety or survival. This year's award was presented to Lieutenant Commander Heath M. Clifford.

Lieutenant Commander Clifford is serving as the Senior Aeromedical Safety Officer for the 2nd Marine Aircraft Wing in Cherry Point, North Carolina. He has led four Marine Aircraft Group Aeromedical Safety Divisions comprised of Aerospace Physiologists and Aeromedical

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Safety Corpsmen charged with pre-deployment readiness training for 26 diverse Marine Corps squadrons. His progressive, forward leaning approach, coupled with his extensive knowledge of aircraft and aviation life support systems, ensured the delivery of fleet-relevant, high-risk human performance capability improvements and the successful mitigation of safety and environmental hazards for both aircrew and maintenance personnel. Under his leadership, and in the past year, all 2nd Marine Aircraft Wing squadrons received risk-analysis and training plans for the enhanced P45-White Phosphor night vision goggle systems. This updated technology immediately provides aircrew with improved image detail with an emphasis on challenging low-level flights in mountainous terrain. This system upgrade also enhances aircrew situational awareness during air-to-ground ordnance employment, thus increasing warfighter lethality in the night environment. Lieutenant Commander Clifford and his team serve as a front-line defense for physiologic events by providing medically relevant education and training on respiratory physiology dynamics, decompression illness in flight, and hands-on dynamic training on the effects of hypoxia using the latest technology in reduced oxygen breathing device assets. His efforts have contributed significantly in his unit's experiencing the lowest physiologic episode rates across all US Navy and US Marine Corps F/A-18 squadrons.

His review of the after-action and lessons learned reports from the Norway-hosted NATO exercise trident juncture, in 2018, resulted in the identification of significant gaps in extreme cold-weather protective equipment capabilities for front line maintenance personnel. His efforts and environmental protection deficiency analysis will provide drastic improvements for thermal burden, fire protection, and FOD abatement hazards for future personal protective equipment designed to support United States Marine Corps Aviation Maintenance departments deployed to global operations in austere environments.

Lieutenant Commander Clifford's leadership, commitment to his aeromedical teams, and dedication to improving the quality and efficacy of all aspects of aviation safety and human performance will have a lasting and extremely positive impact across all 2nd Marine Aircraft Group aircrew and maintainers.

The 2019 Team Achievement Award: This award is presented to a team which has made a recent outstanding contribution in the field of safety through advancement in the knowledge, science, or engineering associated with a significant improvement in safety or survival. This year's award was presented to the US Navy and Marine Corps Physiological Event Rapid Response Team.

US Navy and Marine Corps Physiological Event Rapid Response Team, known as PERT, have provided outstanding contributions in the field of safety and survivability through advancement in the aircrew education and investigative techniques in 2018 and 2019. Physiological events continue to be the number one safety concern for the Commander, Naval Air Forces. The PERT serves as the front-line investigative body, identifying potential causal factors of physiological events. They also serve as the front-line defense against future physiological events by providing key aircraft performance and maintenance metrics, as well as medically relevant information to naval aviation stakeholders. This team is led by Naval Aerospace and Operational Physiologists serving as Aeromedical Safety Officers assigned to Navy Wings and Marine Corps Marine Air groups. In addition to the Naval Aerospace and Operational Physiologists, the teams are comprised of Squadron Aviation Safety Officers, Flight Surgeons, and Squadron Maintenance Personnel, who support an all-encompassing, holistic approach to physiological event investigation and reporting. In 2018, the team responded to, and investigated, 143 physiological events across six type, model and series aircraft platforms. They compiled and submitted over 550 lines of evidence and supporting documentation to the Naval Safety Center while simultaneously releasing 106 safety investigation and hazard reports. These lines of evidence and subsequent safety reports feed the work of over 15 DOD organizations supporting efforts to understand, mitigate, and prevent future in-flight physiological events. Their efforts have contributed significantly to a 42% decrease in the occurrence of physiological events in calendar year 2019.

Each year, up to two individuals are bestowed Life Membership status by SAFE for outstanding achievements on behalf of our Association. This year the Board of Directors presented two individuals this honor. Both have been instrumental in promoting SAFE as an organization, as well as demonstrating a commitment to getting people involved. These two professionals should be considered game changers within their particular sphere of operations. This year the Board of Directors presented the award to Mr. John Meyers and Dr. Robert Yonover.



Dr. Robert Yonover and Mr. John Meyers – Honorary Life Member Award. Presented by Edgar “Ted” Poe.

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**Mr. Jerry Reid – President's Award.
Presented by Edgar "Ted" Poe.**

Each year the Association's President gives an award to a deserving member who has worked tirelessly to move the Association forward. This year, the awardee accepted an extremely challenging task – that of the development and editing of our Association's Constitution and By Laws, as well as leading the charge to help establish two new Association chapters. In addition, this member was our Finance Chair as well as our Vice President. This year's President's Award, members category, was presented to Mr. Jerry Reid.

In 2018, the Board of Directors added an award that recognizes a deserving corporate organization for their exemplary support to the SAFE Association. The award this year goes to a Hawaiian-based business that has, for many years, promoted the SAFE in numerous ways including at special events, schools, universities, and on local and national television. This deserving organization promotes entrepreneurship, leadership, and people taking care of people every single day. You could say that the organization defines the "aloha spirit".

The 2019 President's Corporate Award was presented to See/Rescue.

Once again, Thank You to all the members that took time to nominate all of our Nominees and Award Winners. We look forward to our next gathering at the 58th Symposium in Virginia Beach.



**Dr. Robert Yonover – President's
Corporate Award. Presented by Edgar
"Ted" Poe.**

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Musings from the Dark Side of Human Systems Integration (HSI)

By Steve Merriman, Vice Chair, SAFE Publications

As a member of several groups dealing with Human Factors and Human Systems Integration (HSI) - mostly in support of DoD programs - I have noticed a distinct reduction in the level of DoD support to HSI. Looking at the services, The USAF has no binding HSI policy; that is, no requirement to include HSI in its acquisition programs; the Air Force also recently (01 October 2019) shuttered their HP (HSI) Directorate at Wright -Patterson AFB! The Navy does a pretty good job of including HSI and has an HSI policy (OPNAVINST 5310.23A), but requirements can vary between Systems Commands and programs. The Army also has a binding HSI Policy (AR-602-2) but the Army's HSI director position was recently demoted and moved it to the Army Futures Command. The future of HSI on DoD programs is murky at best.

For DoD acquisition programs, I believe that the HSI discipline would benefit from clearly declaring a single policy lead for HSI and its Domains at the DoD level. Currently, OSD leadership of HSI and its Domains is divided between Human Systems, Systems Engineering, and Personnel and Readiness. In addition, the prospects of moving to a more streamlined DoD acquisition policy (agile, rapid prototyping and fielding) may end up sidelining or reducing the effectiveness of HSI. This is beginning to garner attention within the HSI community and will be addressed at a workshop, held in conjunction with the DoD Human Factors Engineering Technical Advisory Group (DOD HFE TAG) annual meeting, in early-May 2020.

On the positive side, ☺, SAE released a new HSI best practice standard (SAE 6906) for industry in February 2019 and now has a one-day training course (C1941) available. DoD acquisition programs are able to use the SAE6906 standard to require HSI support on future acquisition projects. The SAE G-45 Human Systems Integration Committee has now moved on to develop best practice standards for the "missing domains (manpower, personnel, survivability, and habitability domains, and Design for Maintainability (DFM).

The DoD Human Factors Engineering Technical Advisory Group (DOD HFE TAG) meets annually to exchange information between a wide variety of topics and disciplines (e.g., Training, Safety/Survivability/Health Hazards, HSI, Extreme Environments, Unmanned Systems, Modeling and Simulation). There is a Technical Society/Industry sub-group with representatives of technical societies (such as SAFE) and Industry associations (like NDIA) to facilitate the exchange of information between DoD and Industry. The TAG website is: <https://rt.cto.mil/ddre-rt/dd-rtl/hfetag/> but it is little clunky and slow.

Please contact me directly if you are interested in participating in DOD HFE TAG or SAE G-45 activities (scmerriman@tx.rr.com).

UP-COMING MEETING

MEETING

SAFE Association 58th Annual Symposium

DATE

October 26 - 28, 2020

LOCATION

Virginia Beach Convention Center

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

NEW INDIVIDUAL MEMBERS

Dave Abbott	Sharon City, OH	Raul Hernandez	Davenport, IA
Mohanad Alakal	Abu Dhabi, United Arab Emirates	Nick Howland	Lake Worth, FL
Stuart Ambler	Abu Dhabi, United Arab Emirates	Luis Interiano	Fairfield, CA
Jessica Armstrong	Fairborn, OH	Deborah Kalisz	Mesa, AZ
Rachel Bailey	Troy, OH	Victor Kernus	Alexandria, VA
Douglas Ballmann	Reynoldsburg, OH	Raymond Kinney	Rosamond, CA
Latifa Bardawil	Abu Dhabi, United Arab Emirates	Brittanie Koerper	Kettering, OH
Lori Basham	Lexington Park, MD	Paul Lefort	Vesta, VA
Tyler Bazant	Burnaby, Canada	Benjamin Livingston	Dayton, OH
David Brind	Ronkonkoma, NY	Jesper Lundqvist	Linkoping, Sweden
Henri Broussalian	Bettenforf, IA	Brendan Magennis	Fort Worth, TX
Bill Buckey	Fairborn, OH	Darby Makel	Chico, CA
Caroline Buckey	Fairborn, OH	Norman Malin	Linkoping, Sweden
Blake Burlew	Chatsworth, CA	Jess Manning	Clinton Township, MI
Kristin Cable	Miamisburg, OH	Royce McElroy	Greenacres, WA
Heath Clifford	Havelock, NC	John McIntire	Dayton, OH
Michael Collier	Beavercreek, OH	Rene Meadors	Dayton, OH
Douglas Coppess	Brookville, OH	John Meyers	Orlando, FL
William Cortez	Abu Dhabi, United Arab Emirates	Peter Michalakos	Des Plaines, IL
Mark Cridge	Miamisburg, OH	Nick Mulhall	Birkenhead, United Kingdom
Brenda Crook	WPAFB, OH	Patrick O'Neill	Beavercreek, OH
Michael Cushman	Steilacoom, WA	Christina Ornelas	Hawthorne, CA
Gloria D'Agati	Ronkonkoma, NY	Curtis Parsons	Phoenix, AZ
Deng Daihai	ChongQing, China CN	Bobby Phang	Singapore
Hoangha Dao	Beavercreek, OH	Dominic Pulford	Fleet, United Kingdom
Nichole Davis	Clemson, SC	Steven Rehard	Manassas, VA
Lauren Divers	Brentwood, TN	Adam Renner	Hilliard, OH
David Evans	Clayton, OH	Annette Rizer	Dayton, OH
Ed Eveland	Wright-Patterson AFB, OH	Heather Robertson	Richardson, TX
Mary Farrow	Dayton, OH	David Ross	Colorado Springs, CO
Scott Fleming	Wright-Patterson AFB, OH	Robin Saaristo	London, United Kingdom
Richard Folga	Wright-Patterson AFB, OH	Magan Schafer	Colorado Springs
David Forrest	Wilmslow, United Kingdom	Jeff Schneider	Ballwin, MO
Hilary Gallaher	Wright-Patterson AFB, OH	Michael Sedillo	Wright-Patterson AFB, OH
Ray Gallegos	Dubai, United Arab Emirates	Joe Shane	Jacksonville Beach, FL
Alan Garrett	Abu Dhabi, United Arab Emirates	Iben Sielemann	Ballerup, Denmark
Robert Gates	Hawthorne, CA	Ben Steinbauer	Wright-Patterson AFB, OH
Frank Golich	Wright-Patterson AFB, OH	Billy Swayne	Dayton, OH
Blake Good	Seymour, IL	Conrad Tebbe	Davenport, IA
Joshua Hall	Meadows of Dan, VA	Philip Thompson	Beavercreek, OH
Andrew Hancock	Birkenhead, United Kingdom	Makoto Tokunaga	Tokyo, Japna
Michael Hanks	Pompano Beach, FL	James Tulloch	Rockledge, FL
Nicholas Haynes	Beavercreek, OH	Keith Vossler	Huber Heights, OH
Steve Heaword	Stoke-on-Trent, United Kingdom	Robert Whatley	Abu Dhabi, United Arab Emirates
Rachel Heffner	Wright-Patterson AFB, OH	Chris Wuerfl	Framingham, MA

NEW CORPORATE MEMBERS

Point Blank Enterprises
Pompano Beach, FL

L3Harris Technologies
Mary Esther, FL

CHAPTER NEWS

DFW Metro Chapter

DFW Aerospace and Defense community,

We are pleased to announce that the DFW Metro Chapter will be holding their first Happy Hour Social event on February 12 at the Little Red Wasp in Ft. Worth. Please join us in congratulating and welcoming our Chapter President, Lizanne Luchetti, President & CEO of Sera Star Systems. She has worked hard in getting this chapter started and we are very excited to see what she does in this community. Jerry Reid, Vice-President of the SAFE National Chapter will be speaking at this kick-off event.

We are excited about this new chapter and the opportunities it will bring. We hope you will proudly join us in growing the DFW Metro Chapter, making new contacts within the industry, and increasing exposure to the Dallas - Ft. Worth aerospace and defense community. Another benefit of membership is meeting professionals like yourself who are passionate for the need to make our communities more secure.

Event RSVP Link: <http://dfwmetrosafe.rsvpify.com>

For more information about the DFW Metro Chapter and event details, please email us at DFWmetro@safeassociation.com. We look forward to hearing from you.

Grand Canyon Chapter

Please join us for the Grand Canyon Chapter Kick-off Meeting Scheduled for Friday February 28, 2020 in Phoenix, AZ.

Become a member and assist us to proudly grow the Grand Canyon Chapter, enabling knowledge sharing, making contacts within the industry, and increasing the exposure of what the great State of Arizona brings to the Government and the Industry Safety and Survival community.

Benefits to joining the Chapter include meeting professionals like yourself who are passionate for the need to make our communities more secure. Plans include meetings, site tours and workshops to provide an exchange of fresh ideas and valuable information.

Join us in supporting the SAFE Association, whose Mission is "*the preservation of human life.*"

Email your contact information no later than February 10, 2020 to deb.kalisz@taskaero.com to receive further details about this and other upcoming events. We look forward to hearing from you!

Wright Brothers Chapter

The Wright Brothers Chapter of SAFE will once again be participating in TechFest 2020 at Sinclair Community College on February 15 and 16, 2020. TechFest is a free, two-day family event held at Sinclair Community College. It has been organized and conducted by the Affiliate Societies Council of Dayton since 2003. The theme of TechFest is STEM, which stands for Science, Technology, Engineering and Math. There are typically 70 hands-on exhibits and several INFO-TAINMENT presentations to engage all ages in STEM related activities.

Several employees from Wright Patterson AFB and contractors volunteer their time and equipment to put on display during this 2-day event. Some of the equipment includes: an ACES II ejection seat, Full Pressure Suit, Tactical Vest, Anti-Gravity Suits, flight and combat helmets and much more.

The Location is at the David Ponitz Center (Building 12) 301 West Fourth Street, Dayton Ohio 45402.

For information, please contact: Mark Gruber, President, SAFE Wright Brothers Chapter, (330) 780-9600.

SeeRescueStreamer Honored by the USCG and DHS



The SeeRescueStreamer emergency signaling technology was recognized as an outstanding signaling device in the United States Coast Guard's Ready for Rescue Challenge that was sponsored by the Department of Homeland Security. Following sea trials in day and night conditions in offshore Connecticut waters in mid-October, the streamer was spotted by both waterborne and aerial assets using no batteries, chemicals, or electronics. The continuous signaling of the streamer was a unique attribute that impressed the USCG/DHS experts and judges. The SeeRescueStreamer is now on display in the USCG in Connecticut (see photo above). Dr. Robert Yonover and SEE/RESCUE Corporation were also invited to the Shark Tank Reunion in New York City where entrepreneurs from around the country were able to meet in person and share some of their business strategies, successes, and failures.



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!!

Gordon (Phillip) Cress



In June of 1960 Gordon (Phillip) Cress completed his GI-Bill education in Mechanical Engineering at the Los Angeles State College and married Lorna Dell moving to Glendale, CA. He joined Strato Engineering, a small engineering firm in Burbank, where he carried out aircraft stressing for the local aircraft manufacturers. In July 1961 he moved to the Weber Aircraft Co Ltd in Burbank joining their stressing and test team where he was involved in the Crew Systems design for the Boeing 727, 737, 747, Lockheed L-1011 and C-5A aircraft. At that time, Weber was also one of the leaders in the escape system business, having produced ejection seats for the B-52, T-37, F-101, F-102, F-106 and B-47 as well as research vehicles for NASA-Edwards. Gordon was also involved with the design, development and Qualification of the Boeing Dynasoar, Gemini Ejection System, the Apollo Crew Couch, the USAF gun-deployed parachute system



used for the F-104, F-105 and F-106 Seats, the Rocat for the F-106 Seat, Lunar Lander Training Vehicle (LLTV), Lunar Lander Research Vehicle (LLRV), and the ACES II Leader-Follower program, the B-1B, , F-15, F-16 and T-46A ACES II programs rising to become Manager of Military Engineering.

Famously in 1964 Weber carried out a quadruple ejection test on Mission Bay beach for SAFE/San Diego known as the "Flying circus".

In 1988 he joined Lockheed in Marietta as the YF-22 and F-22 Systems Design Manager. He presented many papers at SAFE and is best known for his articulating Seat in the YF-22 which is still on display in the USAF Museum. Gordon retired from Lockheed in 1997 to Carlsbad, CA and became the Director of Engineering for American Safety Flight Systems in Glendale, CA.

Diversified Technical Systems Names New Director of Sales

Seal Beach, CA - Diversified Technical Systems (DTS) announces that Jim Shaw has joined the company in the position of Director of Sales & Marketing. He brings over 30 years of experience in test and measurement to DTS, a leading manufacturer of data recorders and sensors for injury biomechanics and product testing. Jim's experience in global channel partner development and engineering services will be key to help direct and expand DTS growth.

Jim has successfully led teams focused on COTS hardware and software solutions, as well as turnkey integrated systems. His extensive experience in aerospace, defense

and general test and measurement all serve as an excellent foundation for DTS markets.

"I am honored for the opportunity to join the DTS family, and excited to take on this new challenge. The highly differentiated products, along with the quality of people and unique corporate culture were what attracted me to the role," said Shaw. "I look forward to engaging with our customers and working closely with the team to explore new opportunities to help drive future growth."

For more information on DTS products and services, visit www.dtsweb.com



Jim Shaw, DTS Director of Sales & Marketing

Miniature DAQ Unlocks New Measurement Possibilities

Seal beach (august 2019) - diversified technical systems (DTS) introduces the new SLICE6 air data acquisition system to measure analog signals for in-flight, aerospace and defense testing. Offering flexibility and powerful new functionality, the ultra-small SLICE6 air allows test engineers to embed the data recorder in locations that were previously inaccessible. Slice6 air can be used standalone, networked for high channel counts tests or easily integrated into existing ethernet-based flight test instrumentation.

Measuring just 42 x 42 x 13mm with a mass of 50 grams, the miniature SLICE6 air is optimized for size, weight and power (SWaP). The rugged module can be embedded on or in small test articles like unmanned systems, munitions and helicopter rotors without altering test dynamics. Positioning the daq near the sensors eliminates complicated cable runs that can get tangled or cause issues with signal or power drops, plus it helps reduce test set-up time.

SLICE6 air offers real-time streaming in IRIG (Chapter 10 or TmNS) as well as store-in-place recording. The system also supports ethernet timing and synchronization using IEEE 1588 PTPV2 protocol. These new features, along with all the functionality of its proven SLICE6 DAQ predecessor, make it ideal for applications requiring high-speed streaming data collection and precision timing.

“Flight test engineers are always looking for ways to reduce lengthy test set-up time,” says huy nguyen, DTS aerospace and defense sales manager. “SLICE6 AIR can be rapidly deployed at the last minute to support test modifications - like additional sensor channels or new points of interest - making it a real game-changer for speeding up the test process.”

The onboard IEEE 1588 compliant ethernet functionality allows the 6-channel SLICE6 unit to be expanded to hundreds of channels (via PTPV2 daisy-chaining) per test setup. Programmable sampling rates support a variety of sensors including full and half-bridge, strain gauges, pressure sensors, voltage input and thermocouples. Data writes directly to onboard flash memory.

For more information on the full line of DTS rugged, miniature data acquisition systems and sensors, visit www.dtsweb.com.



Miniature SLICE6 AIR data acquisition system is optimized for size, weight and power (SWaP) and designed to embed on or in small test articles without altering test dynamics.