

SAFE News

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

SAFE Association – Our 64th Year

Volume 25 | Number 2 | Spring 2022

From the President:

This year marks the 60th anniversary of the SAFE Association, an incredible feat for any organization. This year brings with it an opportunity to reset the clock and begin afresh. These days, it seems we are resetting that clock on a regular basis.

Of course, the COVID-19 pandemic endures into a third year around the world, further testing our resilience and fortitude. As we remain hopeful for an end to this crisis, we have much to look forward to in 2022, and it is critical that we forge on—advancing our Association, our mission, and our community. To that goal ... the Board has planned a great Symposium for 2022.

Indeed, the SAFE Association begins this year with a great plan and agenda. It provides us with a clear vision for our future and a myriad of opportunities to advance our lifesaving mission globally.

We are also counting the days until we meet at the 2022 SAFE Association Annual Symposium . This event, in Mobile, Alabama, USA, on November 1st and running through November 3rd, 2022 --- will mark a second return to an in-person annual meeting. The last symposium in 2021 was an incredible return to “normal” and the arrangements for the 2022 event builds on that success. Registration opens April 1 for Sponsors, other details are now available through SAFE emails, website, and newsletters. Mark your calendars and check the SAFE Association website regularly for updates.

In addition, membership renewal is well underway. We value your membership, and we encourage you to remain part of our community and reap the exclusive benefits of registration for the Annual SAFE Symposium Meeting with access to professional publications, global networking opportunities, and so much more.

It is a pivotal moment in time for our community and for society. I very much look forward to working with membership in pursuit of our collective mission.

Clearly, there’s a lot going on this year. Keep reading the quarterly SAFE Newsletter. It is not only one of the best way to keep up to date on Association news, but also our community’s go-to source for life support updates and articles with industry leadership.

On behalf of SAFE’s Board of Directors and the I wish you all a continued healthy and productive 2022.



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safe-association](https://www.linkedin.com/company/safe-association)

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2022 SAFE ASSOCIATION BOARD OF DIRECTORS

ELECTED BOARD MEMBERS

PRESIDENT & FINANCE
COMMITTEE MEMBER
Jerry Reid

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COMMITTEE MEMBER
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SECRETARY
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IMMEDIATE PAST PRESIDENT &
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John Plaga

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Stephen C. Merriman

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Joe Spinosa

JOURNAL AND EDITORIAL
COMMITTEE
Dr. Camille Bilger

CHAPTER PRESIDENTS

CHAPTER ONE -
SOUTHERN CALIFORNIA
Kirsten Larsen

GRAND CANYON CHAPTER
Bob LaFrance

WRIGHT BROTHERS CHAPTER
Mark Gruber

EAST COAST CHAPTER
Dave DeSimone

PACIFIC RIM CHAPTER
Dr. Robert Yonover

DFW METRO CHAPTER
Lizanne Luchetti

ROCKET CITY CHAPTER
Dan Meadows

SAFE EUROPE - CHAIR
Sarah Day

MIDDLE EAST CHAPTER
Mohanad Alakal

*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

Steve Merriman
scmerriman@tx.rr.com



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Phone (541) 895-3012 - FAX (541) 895-3014
E-mail: admin@safeassociation.com - Website: www.safeassociation.com

April 2022

2022 CALL FOR PAPERS
60th ANNUAL SAFE SYMPOSIUM
NOVEMBER 1 - 3, 2022
MOBILE CONVENTION CENTER
MOBILE, ALABAMA

The SAFE Association's Annual Symposium is the premier international showcase for unparalleled discovery including technical sessions, extensive exhibits, product demonstrations, workshops, technical debates, panel sessions, and networking opportunities. Areas of interest include, but are not limited to, the following:

- Accident Investigation
- Aviation Escape Systems
- Biodynamics and Physiology
- Crash Safety
- Directed Energy Protection
- Energetic Materials
- Extreme Environments
- Ground Vehicle Protection
- Hearing Protection
- Human Factors
- Individual Flight Equipment
- Life Support Systems
- Modeling and Simulation
- NBC Protection/CBRN PPE
- Ocular and Night Vision Systems
- Occupant Crash Protection
- Oxygen Systems/PBE
- Personnel Recovery
- Search and Rescue
- SOF Equipment
- Survival Equipment and Aids
- Test and Evaluation
- Technology Transfer
- Training and Simulation
- Troop Protection
- Windblast Protection

Deadline for Abstract Submission is
June 17, 2022

SUBMISSION GUIDELINES

Briefings, Panels (consisting of 2 or more Briefings) Demonstrations and Workshops (please specify).

Submit a 300-word abstract (electronically using the online abstract submission portal) to the SAFE Office through the SAFE website at www.safeassociation.com. Abstracts should be typed in 9pt Verdana font. A template is available for download on the website.

Just as the abstract submission process was last year, this year abstracts are to be submitted via a digital entry form through the SAFE website, rather than the traditional e-mailing of the abstract in MS word format to the organization. Once submitted a compiled abstract, as described above, is generated and e-mailed to the main author and automatically forwarded for consideration to the symposium.

Technical Paper abstracts should include Introduction, Methods, Results, and Discussion sections.

Panels, Briefings, Demonstrations, and Workshops should contain a paragraph outlining the safety issue to be presented, followed by a description of the program or product and how it is used to address the issue.

(Continued on page 4)

(Continued from page 3)

Panel sessions should outline the topic or scope, number of presenters by name and affiliation, and the panel chair. When planning a panel, bear in mind that session blocks are 90 minutes. Panel sessions may list “tentative” speakers or papers for acceptance, but these must be finalized before the deadline.

You will be notified when your submission is accepted, rejected, or if revisions are required for acceptance. If your submission is rejected, you may resubmit with corrections and/or changes. Your paper will be scheduled based on the type of paper and content.

AUDIO-VISUAL PRESENTATIONS

Presenters are to bring their presentation, formatted in MS Power Point (wide-screen 16:9 is preferred), electronically saved on appropriate media (memory stick, CD, etc.) directly to their session at least **twenty minutes** prior to the scheduled start. The program allocates time between sessions to accommodate uploading the session’s presentations to available presentation equipment immediately before the start.

All authors are required to attend the Author’s Briefing to meet and coordinate with the symposium Technical Team, the session moderator, and session co-presenters. Any technical issues or needs will be addressed at that time.

The following presentation equipment will be available for all technical sessions:

- A laptop computer, projector, and screen
- Podium and wireless microphone
- Laser pointer

PUBLICATION IN SYMPOSIUM PROCEEDINGS

- **A “static” printable version of the presentation (MS PowerPoint or Adobe PDF) will be required for publication in the Proceedings.**
- All technical presentations, including papers, panels, workshops, demonstrations, etc., presented at the Symposium are eligible for inclusion in the Proceedings. It is the responsibility of the author to obtain clearance from their organizations. Presentation materials will be collected at the Symposium. The proceedings are published to the SAFE website and are available to SAFE members via their member login.
- Materials not collected at the Symposium may be submitted electronically for publication in the Proceedings to arrive at the SAFE office no later than two weeks following the final day of the symposium. Submit earlier if possible.

It is the responsibility of the submitting author(s) to ensure that all material, printed or otherwise, that is presented at the SAFE Symposium or in the SAFE Proceedings has been screened through the submitting organization’s public release process and has been approved for Unlimited Distribution.

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!!

2022 SAFE ASSOCIATION AWARDS PROGRAM – Call for Nominations

Attention: Corporate, Individual, Military, and Academic Members of SAFE

This is a great opportunity to recognize the achievements of your colleagues by nominating them for a prestigious SAFE award! If you don't recognize them, who will?

Since SAFE was founded 50+ years ago, one of our key goals has been to provide an opportunity for participants in our Industry to be formally recognized for their contributions. Each year the SAFE Board of Directors announces the recipients of our industry recognition at our annual Symposium.

The SAFE Association Awards Committee is now accepting nominations for the following awards, and we need you to help us identify deserving candidates. We invite you to review the criteria for each award and nominate a worthy colleague or team.

All nominations should be submitted by close of business, Friday, 22 July, 2022.

Nominations should follow the guidelines provided on the SAFE Association website, see <https://safeassociation.com/>.

Once received, the Board of Directors will evaluate each nomination based on relevance to the award criteria and the detail of the supporting information provided in the submission. This ensures the awards go to the most deserving recipients.

To identify the most deserving recipients, we need your nominations! We all know of individuals across our industry with significant accomplishments over the past year or their entire career. Project and Program Teams that have made recent major contributions are also prevalent in the military, in new product development, contract service providers, and academic research communities.

The Award categories are:

MICHAEL R. GROST CAREER ACHIEVEMENT AWARD, recognizes the career of a deserving individual for their significant contributions to the field of safety or survival.

GENERAL SPRUANCE INDIVIDUAL ACHIEVEMENT AWARD, honors an individual who has made a recent outstanding contribution in the safety field through leadership toward or significant or significant advancement of safety and survival improvements. This contribution can be made through education, knowledge, science, application of investigative techniques, or engineering.

TEAM ACHIEVEMENT AWARD, acknowledges the recent accomplishments of an industry team in the field of safety or survival through an advancement in the education, knowledge, science, application of investigative techniques, or engineering associated with a significant improvement in safety or survival.

MERITORIOUS SERVICE AWARD, is presented to the person or persons, civilian or military, who have demonstrated a recent outstanding contribution to the preservation of human life through an action of courage.

MURRAY P. KOCH INDUSTRY AWARD, distinguishes a member of industry who has made recent significant contributions in the advancement of technology or hardware for safety and survival applications.

We encourage you to reflect upon a person or team whom is deserving of recognition by the industry we serve. Take the time now to write up a nomination and submit it to SAFE as soon as possible but no later than **Friday, 22 July 2022**. **Go to <https://safeassociation.com/>, click on the AWARDS tab and access the nomination form. Complete the form and submit it either through the website, via fax, or mail to the SAFE Association.** Specific criteria for each award can be found on our website.

The person or team being nominated can be either a current Member or Non-Member. However, all nominations must be submitted by a current SAFE member.

Recognizing our deserving colleagues is an important way for us to acknowledge their career achievements and set the bar for our younger colleagues. **Again, the deadline for submissions is close of business on Friday, 22 July 2022.**

For other questions please email the SAFE Administrator at admin@safeassociation.com or call (541) 895-3012.

SAFE ASSOCIATION AWARDS COMMITTEE

SAFE Association Board of Directors Election Cycle

By 2021 Nominations Committee

The 2022 SAFE Association election cycle is in full swing. **Candidates are being sought for the following elected board positions:**

- **President-Elect - Pre-requisite.** Eligibility for nomination and election to the office of President-Elect shall require two years of continuous active membership in the Association and a minimum of one term as an elected or appointed member of the Board. The President-Elect shall ascend to the office of President upon the close of the 2021 SAFE Symposium. In the interim, the President-Elect shall be a member of the Board and performs such duties as delegated by the sitting President. Additionally, the President-Elect shall familiarize themselves with the duties of the office of President. In the event both the President and Vice President are incapacitated or otherwise unable to act, the President-Elect shall perform the duties of the President during the period of such incapacity or inability to act.
- **Vice President - No Pre-requisite.** The Vice President shall be a member of the Board. The Vice President will familiarize themselves with the activities and duties of the President and will act as the Chairperson of the Finance Committee. If the President is not available to officiate, the Vice President will act during the vacancy. In the event the President shall become permanently unable to perform the duties of the office, the Vice President shall become the acting President.
- **Secretary - No Pre-requisite.** The Secretary shall assist the Association Administrator or other Board member as directed in accordance with the procedures established by the Constitution and Bylaws, and shall assure the written record of the association is maintained and available to the members.
- **Treasurer - No Pre-requisite.** The Treasurer shall oversee the Association's financial records in accordance with the procedures established by the Constitution and Bylaws, and shall assure the issuance of at least one financial statement annually.

To be approved, each candidate must be a current member in good standing to run for office.

We encourage you to consider volunteering your talents to be a Candidate by stepping up and pitching in with your creative, thoughtful and collaborative energies. Additionally, elected and appointed board members are expected to attend the quarterly Board of Directors meetings. Your participation clearly helps further the viability of the SAFE Association in its role of supporting, protecting and saving the lives of those who intentionally go out into harm's way.

SAFE members who have any interest in pursuing one of the aforementioned elected offices or would be interested in serving in an appointed board position please contact the SAFE Administrator, Stacy Stuber at admin@safeassociation.com, a current SAFE Board member, or one of the following Nominations Committee members no later than **June 30, 2022**:

Joe Spinosa

Chairperson
jspinosa@eastwestindustries.com
(631) 981-5900

John Plaga

Committee Member
plagaja@gmail.com
(937) 405-8224

Ebby Bryce

Committee Member
ebryce@ced.us.com
(757) 927-2461

Edgar "Ted" Poe

Committee Member
edgar.poe@tedgarconsult.com
(808) 594-9245

The Nominations Committee thanks you in advance.

UP-COMING MEETING

MEETING

60th Annual Symposium

DATE

November 1 - 3, 2022

LOCATION

Mobile, AL

News from the Chapters

Wright Brothers Chapter (WBC) -

On 8 Feb, CAPT Rich Folga provided a virtual presentation to the chapter to provide an update on the Kraken™ Disorientation Research Device (DRD). Projects were briefed that had been performed since his previous briefing to the WBC in April 2019, and they included:

Completed the following in the Kraken™:

- Successful full motion (3G) EEG system demo completed June 2019
- Joint Program Commission-5: Spatial disorientation (SD) Modeling study completed January 2020
- Ohio State University study: Mathematical model of spatial orientation completed August 2020
- Successful integration test for Varjo virtual reality headset (as an Helmet Mounted Display surrogate) with external head tracking for human in the loop control of the Kraken (September 2021)
- Breathing system integration underway (ROBD and Hypoxia Ventilatory Research Device; 2022) completing extreme motion test runs prior to human testing. HVRD initial testing successful.

Funded research studies lined up for the Kraken™:

- JPC-5: HMD Spatial Audio study using virtual reality as an HMD surrogate (2022)
- 711th Human Performance Wing Studies and Analysis program: Bone conducted vibration for motion sickness countermeasure (2022)
- JPC-5: Modeling and mitigating the Audiogyral and Audiogravic illusions in aerospace environments (2022)
- Office of Naval Research Multidisciplinary Research Program of the University Research Initiative: multiple basic research applications for perceptual modeling (2022)
- Navy Medicine R&D In-house Laboratory Independent Research Program: Volitional influences on vestibular perception (2022)
- Inter-service Restoral Program: Aviator spatial disorientation as modulated by varying oxygen levels (2022)
- 711th Human Performance Wing Studies and Analysis: Impact of bone conducted vibration for airsickness mitigation on acclimatization of aircrew to provocative motion (2022)
- Inter-service Restoral: ID of a neural marker (EEG) for spatial orientation (2022)
- JPC-5: Effects of HMD format and Spatial Audio cueing on pilot performance and spatial disorientation recovery (2022)
- NASA/Johns Hopkins University: Astronaut deconditioning and self-administered rehab (2022)
- NASA/University of Colorado Boulder: Detecting pilot spatial disorientation to trigger active countermeasures during lunar landing (2025)

CAPT Folga also mentioned the potential use of the Kraken ISO NASA HRP and FOD for Artemis mission, and that the agreement process underway, and that they can support 'flight test' for future aerospace human systems applications, including sensor evaluation.

Vice President's Message

I must begin this with a big Thank You! – Thank you for your vote of confidence and electing me as Vice President this year and allowing me to contribute to the SAFE Association in a new way! Serving as the Symposium Committee Chair for the last three years was a fun challenge, but I'm ready for a new one and want to make the most out of the year moving ahead. I must admit, typing out an article for the newsletter that is not about the Symposium and COVID-19 feels a bit different, but different is good! And that is the mind-set I'm in for this year - what can we do differently to improve the SAFE Association and its events? How can we grow and have our members benefit more? How can we encourage and support the SAFE community to share more with each other to ultimately support our mission: the preservation of human life.

Selfishly, I'd love to say I had all the answers, but I'm glad I don't. This isn't something one person can accomplish and we all know that. That's where all of SAFE's committees put in the work, and as Vice President, I'm asking that you do too as a SAFE member.

My intent is to capture all your ideas, suggestions, and opinions. I want to use that feedback to ensure we keep doing the things that we do well and taking a hard look at the things we can do better. I know you have your thoughts, so please utilize the email VP@safassociation.com to share them!

I'm looking forward to hearing from you. I'm also looking forward to the rest of 2022 and celebrating the 60th Annual Symposium! There are great things being planned and we are eager to see familiar faces in attendance, as well as some new ones. Until then, wishing you all the best!

Nicole Stefanoni

US Air Force Human Systems Division Update

SAFE Association, greetings from chilly Ohio! Today, I am very excited to share our successes procuring a modernized Seat Survival Kit solution for the CAF fleet. It is common knowledge that the current ACES II survival kits are not adequate to support isolated personnel (IP) for a long-term evasion scenario in a hostile environment. In 2018, ACC underwent a Long-term Evasion Military Utility Assessment for all current seat survival kits. The findings from this assessment highlighted 5 core capabilities – the ACES II survival kit failed all five core tasks as well as 14 of 15 sub-tasks and was rated “Unsatisfactory” in the core objective of meeting an IP's basic survival needs. The results were in – and the finding was obvious – the ACES II survival kit needed to undergo a major makeover!

Through extensive market research including industry days at the SAFE Symposia in 2019 and 2020, the Human Systems Division determined there are many commercial solutions currently on the market that can meet the required capabilities of an IP for a long-term evasion scenario. The research showed industry was ready to meet the need with commercial solutions utilizing the latest and greatest survival technology.

In summer 2021, the funding stars aligned and the USAF Human Systems Division embarked on the journey to make this modern kit a reality for our current and future Aircrew. By utilizing our Try-Decide-Buy contract vehicle, built specifically to procure commercial items, the Division accelerated the contracting process to procure three new kit solutions from industry for evaluation by our Survival, Evasion, Resistance, and Escape (SERE) and AFE Subject Matter Experts. The Division was able to release the Request for Proposal and award the contract in less than 40 days! The first kit was delivered 60 days after contract award in the midst of the Global supply chain crisis and COVID-19 pandemic – talk about accelerating change!

We are currently in the test planning phase and will start evaluating the new kits next month. Our objective is to select a company as our survival kit integrator that will manage the kit contents as mission needs change over time. This effort is an excellent example of the benefits of the SAFE Association and the partnership between Government and Industry to deliver the capabilities our Aircrew need to safely execute the mission day in and day out. I am honored to be a part of such a partnership and look forward to what the future of the SAFE Association holds!

Capt Skyler G. Means
Egress & Survival Program Manager
Human Systems Division (AFLCMC/WNU)
AFPEO Agile Combat Support Directorate



safe europe

SAFE Europe Symposium 2022 - Registration open

The SAFE Europe committee are pleased to announced that registration is now open for the 2022 symposium.

Date: 1300 Tuesday 28th June to 1300 Wednesday 29th June 2022
Venue: Cardon Park Hotel near Chester, UK

Please register for the symposium through this link:
<https://www.eventbrite.co.uk/e/308243202717>

Individual delegates are charged at £275 for the full symposium, with a discounted rate of £215 for uniformed military delegates.

Delegates are limited, so please register early to avoid disappointment.

The SAFE Europe committee request that individual companies do not register more than 10 delegates at this time. If additional places are required please email info@safeeurope.co.uk to register your interest should more places become available.

Regards

SAFE Europe Committee

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SAFE 2022 YTD Treasurer's Report

By Steven Bromley, 2022 Treasurer

Steven Bromley reported that the SAFE Association's operating income for 2022, as of January 2022, was \$6,850, with operating expenses of \$11,846, for a net income of (-\$4,996). This is consistent with past organizational financial trends, as the association prepares for the SAFE 2022 Symposium. Our total assets currently exceed \$442,250. The total net income in 2021 was (-\$31,755) due to the lingering effects of the COVID-19 pandemic and travel restrictions limiting Symposium attendance in 2021. We are anticipating a much better year in 2022 and look forward to seeing everyone in Mobile to celebrate the SAFE Association's 60th year in operation!

DoD Human Factors Engineering Technical Advisory Group (DOD HFE TAG), and More...

The next DODHFETAG in-person meeting will be held at the Federal Aviation Administration (FAA) Mike Monroney Aeronautical Center (MMAC) in Oklahoma City, Oklahoma on 16-20 May 2022. Typically, about 200 people attend these meetings. There is normally an opening plenary session for about half a day and then attendees attend any of the approximately 18 different SubTAG sessions. The theme for the 2022 meeting is: Holistic Human Factors Engineering. TAG #74 will explore the impacts of innovative technologies and novel approaches on human mental and physical health, wellness, and capabilities. Many human factors techniques and technologies are relevant, such as "wearables" for situation awareness; mental imagery for mastery; big-data analytics to target interventions; and mixed reality, artificial intelligence, and machine learning application to selection, training, and system maintenance. Additional information will be forthcoming. The DOD HFE TAG website is: <https://rt.cto.mil/ddre-rt/dd-rtl/hfetag/?csrt=12697372559647523942>

The Naval Surface Weapons Center, Dahlgren, VA hosts informative "Human Factors Brown Bag" meetings for an hour on most Fridays from 1100-Noon Eastern Time. Presentations are made on a wide variety of topics. Recent talks focused on Naval Postgraduate School activities and Human Readiness Levels. In the near term, presentations will be made on topics such as: Ethics of Artificial Intelligence, Design of Cyber Security Human Machine Interfaces and DoD HSI Guidebook. The point of contact for these sessions is: Ms. Karen Mentel, Human Systems Integration Branch V33, NSWCCD, Office: 540-653-7556, Cell: 540-654-6403.

The Department of Defense (DoD) Under Secretary of Defense for Research and Engineering approved a new DODI 5000.95, Human Systems Integration in Defense Acquisition, on 01 April 2022. This new policy document establishes policy, assigns responsibilities and prescribes procedures for:

- Human Systems Integration (HSI) in the Defense Acquisition System.
- HSI Domains, integration, implementation, and reporting across the DoD acquisition enterprise for personnel responsible for the development, testing, production, training, operations, and sustainment of defense acquisition systems.

If anyone is interested in hearing more, please contact Steve Merriman at scmerriman@tx.rr.com or (214) 533-9052.

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



Letter to Martin-Baker

We received a lovely letter sent in to Martin-Baker America by the Lavinder family about their late father CDR Carlton L. Lavinder Jr., Ejectee #2454.

The impact that our life saving product has not only on the aircrew that use it but also the family that surrounds them is so powerful, and that's really shown in the letter below.

15 AUG 2021

Martin-Baker USA,

I wanted to send you a thank you note for giving my dad (Carlton L. Lavinder Jr.) and extra 43 years of life. My dad had to eject from his F-14 (BUNO 159007) on 5 Aug 1975 when the arresting gear on the USS John F. Kennedy failed. If the ejection seat had not worked properly, both he and his RIO would likely have been killed.

My sister and I were recently looking through his flight logs and talked about his accident and it made me wonder if your company is aware of the long term impact of your work. I suspect you get letters of thanks immediately following an ejection, but I don't know that you ever hear what happens in the remainder of the lives of people your equipment has saved.

My dad continued to fly in the Navy another 13 years and had a positive influence on many officer and enlisted personnel who served with him. After retiring from the Navy, he was an F-14 simulator instructor at NAS Oceana who shared his years of experience with aspiring F-14 aircrew. He influenced a whole generation of F-14 pilots, relaying his knowledge of and confidence in the aircraft to make them better pilots.

Most importantly, he was there to continue to influence and support my sister and I as we grew up, and then be a loving grandfather to his 5 grandsons. I am thankful that I had him around all those years to ask questions and seek guidance about my life and career.

So again, thank you for developing and manufacturing the ejection seat that saved my dad's life and allowed him to have a long and fulfilling life until his passing in 2018 at the age of 84.

Respectfully,

A handwritten signature in black ink, appearing to read 'C. L. Lavinder Jr.' with a stylized flourish at the end.

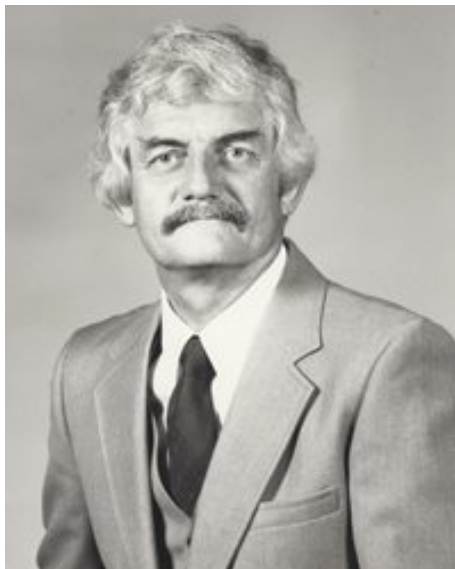
Russell H. Burton

January 15, 1932 – January 26, 2022

Russell Rohan Burton Ph.D. was born in Chico, California January 15, 1932, and passed away in Topeka, Kansas on January 26, 2022. He attended the University of California at Davis (UC Davis) and received a DVM in 1956 and practiced veterinary medicine until 1962. In 1963 he returned to UC Davis and earned an M.S. in Animal Physiology in 1965 and a Ph.D. in Comparative Pathology in 1970. Dr. Burton remained at UC Davis working with Dr. A.H. Smith as a Research Specialist studying the physiologic effects of altitude and gravitational stressors on chickens.

In 1971 he came to work as a Research Physiologist at the USAF School of Aerospace Medicine (USAFSAM) at Brooks AFB. His research included subjecting both human and animal subjects to high acceleration (up to 9G) on the USAFSAM centrifuge. The results of his research contributed to advanced G protection equipment for pilots such as, improved anti-G valves (ATAGS), pressure breathing for high G protection (Combat Edge), and a predictive model for pilots using various combinations of protective equipment. He also conducted a number of studies researching the efficacy of artificial gravity (centrifugation) in preventing or reducing the muscular degeneration caused by long-term exposure to a micro gravity space environment. His basic research included study of the physiologic effects of a high G environment on miniature pigs.

Dr. Burton published eighty-seven peer reviewed papers, thirty-five non-peer reviewed papers, contributed chapters to nine books and AGARD publications, including a chapter in the NATO AGARDograph No. 322., High G Physiological Protection Training, used as a guide at every pilot training centrifuge in NATO countries. Dr. Burton often presented his work at meetings and symposia throughout the United States and the world and



would often host other acceleration researchers from NATO countries and Russia.

Dr. Burton shared in a patent for an advanced anti G valve: *Shaffstall, R. M., R. R. Burton, and J. L Jaggars. 1980, Ready pressure attachment for existing anti-G valves. U.S. Patent No. 4, 215, 712.*

Dr. Russell Burton served as the SAFE Journal editor from 1993 to 1997. During his tenure he established a new peer-review policy for papers in the SAFE Journal.

He received eighteen prestigious awards including: the Paul Bert Award - Aerospace Physiologist Society Award (1975), Arnold D Tuttle Award - Aerospace Medical Association (AsMA) (1976), Professional Excellence Award - LSBEB, AsMA (1979), Environmental Science Award - AsMA (1980), USAF Scientific Achievement Award -(1987), Liljencrantz Award, AsMA (1988), and the Outstanding Civilian Service Medal to the Department of the USAF (1999).

During his career he served as a consultant to the USAF, US Army, US Navy, Swedish AF, NASA, DARPA and many others.

Appointed in 1995, Dr. Burton served as the Chief Scientist of the USAF Armstrong Laboratory (ST, DV-6) until his retirement in 1999. At the time of his retirement, he received numerous awards from the City of San Antonio and the President of the United States. He lived in San Antonio from 1970 until moving to Topeka recently.

He is survived by his son, Russell P.D. Burton of Topeka; Rob P. Burton of Las Vegas, NV; two stepdaughters, Heather Lea Goodwin of Cibolo, Texas and Jennifer Paige Pinkston of New Braunfels, Texas; his uncle Warren Burton in Washington, D.C.; two nieces, Kim Miller in Parkfield, CA and Ann Wood (Bill) of Montgomery, Texas; and grandchildren Brianna, Benjamin and Zoey.

He was preceded in death by his sister, Lynn Thirburn. Memorial services were held at 2:00 pm Tuesday, February 1, 2022 at Davidson Funeral Home.

Welcome

NEW INDIVIDUAL MEMBERS

Corey Littel
Pace, FL

Martin Rice
Fivemiletown, United Kingdom

Jim Shaw
Seal Beach, CA

Stephanie Warner
Bellbrooke, OH

Kimberly Hallett
Rochester, NH

NEW CORPORATE MEMBERS

Triton Systems, Inc.
Chelmsford, MA