



SAFE News

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

SAFE Association – Our 62nd Year

Volume 22 | Number 2 | Spring 2019

President's Message *By Edgar "Ted" Poe, 2019 President*

Dear Members...

April Showers bring...melting snow! Winter has now moved on to Spring and I hope everyone in our organization is looking forward to the warmer weather. I know I am. The weather here in Iowa has just been simply arctic sometimes. This newsletter finds me not on an airplane but in an English pub with a great cup of coffee at my disposal...the water of life will appear once I am finished. This newsletter is packed with information that we hope will be informative and provide you a little glimpse on what's going on in our community and organization. Since our last letter, your Board of Directors have been working on numerous issues that we hope will bring clarity as well as continued financial well-being to our organization. I am happy to report that our accounts are in good standing and showing once again our savings for a rainy day have increased. So, let's start talking SAFE!

SAFE Europe Chapter: It was my honor and privilege to attend this year's 26th SAFE Europe Symposium as well as meet all of the chapter's leaders and volunteers. Congratulations to Sarah Day and her team for another great event as well as some of the best papers and conversations that will spark future discussions for sure. Congratulations to the 2020 committee being selected. What you have is a very close and hardworking team that makes a difference each and every day!

SAFE Middle East? During my recent trip into the UAE to attend IDEX 2019, we continued to meet with numerous individuals and UAE Air Force leadership to continue the formal process of getting this chapter on board. We have now completed the socialization phase of the process and we are working to get the program off the ground. We have had a few setbacks but all in the form of administrative issues with setting up an association within the UAE. Time is patience. The team has now looked at locations

for the first meeting and we have established the time frame for the first formal meeting. There is more to be worked and then information will be released. Bottom Line: We have positive forward movement in the development of the chapter and we have individuals who are willing to step forward to make things happen.

Chapters: Our own Mr. Al Loving has been busy, and our 2019 SAFE Chapters Operations Book has been released! Once again, we are working the process so that we can clean up some of the administrative issues of the association. As a non-profit approved organization, we are required by US-law, as well as several negotiated treaties, to have certain documents on hand and organized. We thank each chapter organization for the work and the help in getting these needed documents completed.

Future Symposiums: Thanks to the work of John Plaga, we now have our 2021 to 2024 requirements document for selecting our future symposium locations. As of the publication of this newsletter we now have Request for Proposals out to numerous locations. We look forward to being able to announce our locations in future newsletters.

February Board Meeting: Our February meeting took place in San Antonio TX. We completed our annual association cost targets, established our 2019 and future year budgets, as well as discussed numerous orders of business. Thank you to everyone who was able to attend.

Closing Thoughts: As I look at the calendar for the next few months, I see that it is time to start the nomination process of our new Board of Directors, sitting down and writing awards packages, and getting ready for the 58th Symposium. The tasks are numerous but with this team, they make it seem easy. I want to ask each member, and each corporate member to take a few minutes and maybe help me answer this question. What does SAFE membership

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2019 SAFE ASSOCIATION – BOARD OF DIRECTORS

ELECTED BOARD MEMBERS:

PRESIDENT,
& FINANCE COMMITTEE MEMBER
Edgar “Ted” Poe

PRESIDENT-ELECT & FINANCE
COMMITTEE MEMBER
John Plaga

IMMEDIATE PAST PRESIDENT,
AWARDS COMMITTEE CHAIR,
FINANCE COMMITTEE MEMBER
& NOMINATIONS COMMITTEE MEMBER
Vacant

VICE PRESIDENT & FINANCE
COMMITTEE MEMBER
Jerry Reid

SECRETARY
Mark Jones

TREASURER &
FINANCE COMMITTEE MEMBER
Steve Bromley

APPOINTED BOARD MEMBERS:

EXECUTIVE ADVISOR
John Fair

SYMPOSIUM COMMITTEE CHAIR
Nicole Stefanoni

SYMPOSIUM COMMITTEE CO-CHAIR
Allen “Al” Loving

AWARDS COMMITTEE CHAIR,
NOMINATIONS COMMITTEE MEMBER &
FINANCE COMMITTEE MEMBER
Joe Spinosa

PUBLICATIONS COMMITTEE CHAIR
Richard Johnson

PUBLICATIONS COMMITTEE CO-CHAIR
Stephen C. Merriman

SCIENCE & TECHNOLOGY
COMMITTEE CHAIR
Glenn Paskoff

CHAPTERS COMMITTEE CHAIR
Allen “Al” Loving

ASSOCIATION DEVELOPMENT
COMMITTEE CHAIR
Alex McGill

MEMBERSHIP COMMITTEE CHAIR
Joshua Minton

CHAPTER PRESIDENTS:

Pacific Rim Chapter
Dr. Robert Yonover

SAFE Europe - Chairman
Sarah Day

Wright Brothers Chapter
Mark Gruber

Chapter One - Southern California
Kirsten Larsen

East Coast Chapter
John Marcaccio

Great Lakes Chapter
Michael (Mike) S. Beebe

Grand Canyon Chapter
Jim Lemister

2019 Chapters Committee Report

By Allen “Al” Loving, 2019 Chapters Committee Chairperson

Over the last couple editions of the SAFE News, I’ve shared with you a few thoughts regarding our SAFE chapters and my thoughts on what they bring to the safety disciplines and communities we serve. I want to reemphasize a few of those thoughts with you in this edition of the SAFE News.

Our chapters are the backbone and heartbeat of SAFE. They strive to enhance the Association’s visibility and standing within the four environments the Association was chartered to serve - - Land, Sea, Air, and Space. I also noted that our chapters play a vital role in contributing to the current and future growth of the Association.

We must continue efforts to communicate effectively to help grow and strengthen SAFE. By strengthening the communications within and between the membership, industry, and other organizations like SAFE we create growth and advance our stated goals and objectives. In doing so, we are building a better Association not only for today but into the future.

Yes, we are stronger today than we were this time last year. Why? Because of our chapters and our individual and Corporate Sustaining members. We must continue to grow the Association at the National and Chapter levels in the area of individual and Corporate Sustaining members.

It’s face-to-face contact and communications that generate interest and members, and visibility. I encourage you to become and remain involved and active in your local chapter. With your help, dedication and support SAFE will remain a viable force within the safety and survival community today and for years to come.

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!!

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mean? Once you have an answer, please send me your definition. It's important. Please take five minutes and let me know your answer. I promise I will not call you out or show the answer at the symposium. We are defining membership and what that means...not to me, not to the members of board, but what it means to you.... Please send us your thoughts!!! Send your thoughts to: president@safeassociation.com and safe@peak.org. Well, it's time to hand this over to the team who have so much to tell you. In this newsletter you will find updates on the 57th Symposium, updates from our S&T Chair, and several other great committee members. So, until the next newsletter, be SAFE!

With a very sad and heavy heart, I must report to our members that Laura Marie Nelson (Neel), age 53, of Phoenix, Arizona, passed away peacefully on Sunday, March 24, 2019, in Gilbert, Arizona. Laura was a mainstay of our many symposia over the years and was key in numerous SAFE past events. She was a devoted member of the Goodrich team and her hospitality work and coordination was instrumental to many of our events. Her warm personality and infectious smile is something that will always remain with us all. I would like to thank Chris Belmonte-Foster for letting us know of this great community loss as well as sharing some of the tributes and pictures of Laura.



<https://www.hansenmortuary.com/laura-marie-nelson-neel/>

SAE International Released First General Best Practice Standard for Human Systems Integration

In February 2019, SAE International published and released the first general best practice standard for Human systems Integration (HSI). At 110 Pages, this new standard specifies required and recommended activities - from HSI program initiation to system retirement. The G-45 HSI SAE committee worked for three years to develop this standard. The committee was composed of 120 government, industry, academia, and international HSI specialists. This new standard (SAE6906) is currently being reviewed by the Department of Defense for adoption as their preferred standard for HSI. Other Federal agencies (e.g., DHS, NASA, FAA) are also considering this standard as a preferred method of contractually specifying HSI activities. If additional information is desired, please contact Stephen Merriman at scmerriman@tx.rr.com.

Welcome

NEW MEMBERS

Steve Heaword
United Kingdom

Christopher Moore
Boerne, TX

Uri Rabizinovich
Haifa, Israel



<https://www.facebook.com/pages/SAFE-Association/182879935059392>



<https://twitter.com/SAFEAssociatio2>

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



DTB Wins Navy Contract and Initial Task Order Funding

Contributing Author: Steve Marini, Sr. VP & CFO.

DTB has been awarded an \$82.6 million IDIQ (indefinite-delivery/indefinite-quantity) contract from the US Navy in support of the Naval Air Warfare Center Aircraft Division's Special Missions Integrated Test Facility (AIR-5.4). The supplies and services being procured are in support of the continued development of the Mobile Mission System (MMS) family of system capabilities. It is expected that new MMS units and supporting equipment will be procured, along with labor to perform maintenance, repair, modification and deployment of the current systems.

"We're very excited to continue and expand our long-standing relationship with the US Navy," said Tom Zimoulis, Senior Vice President of the Engineering & Test Division at DTB. "This contract will be a key component of growth for the Company in 2019 and beyond." The newly announced award is in addition to the eight-year Aircraft Prototype Systems Division (APSD) contract that DTB won in late 2017. The Company is currently performing on two active Delivery Orders on the APSD contract and continues to compete on new task orders as they are released.

"Winning this new contract gives us the opportunity to continue to increase our presence in the Patuxent River area," said Larry Howard, Patuxent River Site Manager. "We are appreciative of the trust and confidence that the Navy has shown in us, and we look forward to beginning work on the contract immediately."

The contract has a period of performance of seven years, through December 2025, and will be funded on a task order basis. An initial task order was awarded on January 1st as a follow-on to a previous contract for the procurement and delivery of two specialized MMS units.

The Company anticipates that 91% of the direct work on the new contract will be performed in Maryland, with the remaining 9% performed in Bohemia - mostly for design, engineering, and testing.

Carbondale, PA, January 18, 2019. Gentex Corporation, a global leader in personal protection and situational awareness solutions for defense forces, emergency responders, and industrial personnel will introduce the latest addition to its growing eyewear portfolio, Ops-Core Mk1™ Performance Protective Eyewear, at SHOT Show, January 22 - 25, 2019 in Las Vegas, Nevada.



<https://shop.gentexcorp.com/ops-core-mk1-performance-protective-eyewear/>

<https://gentexcorp.com/configurable-ops-core-eyewear-made-in-the-usa-introduced-at-shot-show/>



CALL FOR NOMINATIONS OF INDIVIDUALS FOR ELECTION TO THE 2020 BOARD OF DIRECTORS

The SAFE Association was built, has thrived and been sustained by the dedicated volunteer energies of its Members. Stepping up, pitching in, and collaborating with other like-minded volunteers to carry out the Associations goals and objectives is the engine that continues to drive SAFE's success.

The primary 'drivers' of SAFE are the Board of Directors. Each year a new Board comes together to build on the lessons learned and accomplishments of those member-volunteer Boards before it.

The process for fielding Candidates for the Membership to consider and elect as Officers to the SAFE Association Board of Directors is an annual requirement under the Constitution and By Laws.

Our goal with this early outreach announcement is to have a vetted and Board-approved slate of Nominees no later than Monday June 3, 2019. This targeted end date would ensure adequate time for the printing, mailing, and return of the ballots to the Association's CPA. The results will then be presented at the last Board meeting before the 2019 Symposium.

Nominations are now being received for the election of the following 2020 board positions:

- **President-Elect - Pre-requisite for this position is to have previously served a minimum of one (1)year on the Board of Directors in an Appointed or Elected Position**
- **Vice President - No Pre-requisite**
- **Secretary - No Pre-requisite**
- **Treasurer - No Pre-requisite**

To be approved as a Candidate each Nominee 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. 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.

If you are interested in being a candidate and to learn more about the process please contact me, or Nominations Committee members Ted Poe and David DeSimone, our Administrator Stacy Stuber, or any current Board member.

Thank you,

Joe Spinosa

2020 Nominations Committee Chair

UP-COMING MEETING

MEETING

SAFE ASSOCIATION
57th ANNUAL Symposium

DATE

October 14 - 16, 2019

LOCATION

Grand Sierra Resort, Reno, NV



Post Office Box 130 - Creswell, OR 97426-0130
Phone (541) 895-3012 - FAX (541) 895-3014
E-mail: safe@peak.org - Website: www.safeassociation.com

April 2019

2019 CALL FOR PAPERS
57th ANNUAL SAFE SYMPOSIUM
OCTOBER 14 - 16, 2019
GRAND SIERRA RESORT & CASINO
RENO, NEVADA

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 1, 2019**

SUBMISSION GUIDELINES

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

Submit a 300-word abstract (electronically in MS Word format) to the SAFE Office at safe@peak.org or 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.

All information requested on the last page of this Call for Papers is required and must be submitted with your abstract. **Submissions will not be accepted without it.**

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.

Panel sessions should outline the topic or scope, number of presenters by name and affiliation, and the

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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.**

See required submission form on next page

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SAFE 2019 YTD Treasurer’s Report by Steven Bromley, 2019 Treasurer

Steven Bromley reported that the SAFE Association’s operating income for 2019, as of February 2019, was \$4,435, with operating expenses of \$18,198, for a net income of (\$13,763). This is consistent with past organizational financial trends, as the association gears up for the SAFE 2019 Symposium. Our total assets currently exceed \$453,959. As a reminder, more than 85% of yearly SAFE operating revenues and over 55% of expenses carry over from past SAFE Symposia. The total Net Income in 2018 was \$101,723 and we are projecting a better year in 2019.

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Complete and Submit with Abstract

(Please clearly print or type all entries)

Type of Presentation _____
(Briefing, Panel, Workshop, Demonstration)

Complete Title of Presentation _____

Length of Time Requested for Presentation _____

(20-25 minutes is standard time for a presentation within a session, followed by a 5 minute question and answer period. Normally three papers will be presented in each 90 minute session block.)

Presenter (Mr./Ms./Dr.)(Please circle one)_____

Organization _____

Position/Title _____

Complete Mailing Address _____

Telephone _____ **Cell Phone** _____

Email Address _____

Comments or Special Requests (SAFE cannot guarantee either a specific day or time for a presenter, but will try to accommodate reasonable requests. Please indicate such requests in this section.)

SAFE Journal (If interested in converting your presentation into a technical paper for submission to the SAFE Journal, check the box below.)

Note, the SAFE Journal is a separate publication from the SAFE Proceedings, which are published following the Symposium each year. The SAFE Journal is a peer-reviewed publication that is published every other year. Submission of a paper does not guarantee final acceptance into the SAFE Journal. The SAFE S&T Committee and Editors reserve the right to decline papers that they feel do not meet the technical qualifications for professional publishing or that fall outside the scope of the SAFE Association's mission statement.)

Yes, I am interested in being contacted by the SAFE Association with the intent of submitting my presentation, in technical paper format, to the SAFE Journal for consideration.

For Further Information, Contact:

SAFE Association

Post Office Box 130, Creswell, OR 97426

Phone (541) 895-3012; Fax (541) 895-3014

Email safe@peak.org or visit our web site at www.safeassociation.com

57TH ANNUAL SAFE SYMPOSIUM

OCTOBER 14 - 16, 2019

GRAND SIERRA RESORT AND CASINO
RENO, NEVADA



On behalf of the SAFE Association Board of Directors, we cordially invite your participation in SAFE's 57th Annual Symposium, to be held at the Grand Sierra Resort and Casino in Reno, NV. This three-day, jam-packed event will include industry, military, and affiliate exhibits, technical papers and panel sessions, workshops, informative guest speakers and product demonstrations. The Symposium provides an international venue for the exchange of technical information, product and service exhibitions, and the showcasing of industry capabilities to meet challenges in vehicular occupant protection and personnel-worn safety equipment. Countless safety and survival attendees make SAFE their #1 priority meeting each year, with many scheduling design reviews, technical interchange meetings, and supplier coordination meetings during this event.

Offering a beautiful hotel, the 57th Annual SAFE Symposium promises to deliver! Come early and stay late - - we'll do everything we can to insure you have a great experience! The preliminary information booklet will be forthcoming shortly as a downloadable PDF as well as being emailed to all SAFE members. We ask that you periodically check our website at www.safeassociation.com for all Symposium updates.

Technical Presentations: The SAFE Call for Papers has been emailed to all SAFE members and submission guidelines and submission form are posted on the SAFE website (www.safeassociation.com). We urge everyone to submit their abstracts soon!

Exhibit Space Booth Reservation: Opens May 1, 2019. Exhibit information can be found on the SAFE website. Don't miss out on this excellent opportunity!

2019 Symposium Registration: Opens May 1, 2019. Please visit the SAFE Website (www.safeassociation.com) for registration cards and payment information.

EARLY BIRD SPECIAL: MEMBER REGISTRATION RATE \$400.00 MAY 1- MAY 31.

2019 Sponsorship Opportunities: Opens May 1, 2019. Enhance your presence at the 57th Annual SAFE Symposium. Please visit the SAFE website (www.safeassociation.com) to select and secure a sponsorship package that meets your needs and expectations.

2019 Golf Tournament: Information will be posted to the SAFE website and emailed to SAFE members, exhibitors and symposium attendees.

2019 5k Runner: Information is posted to the SAFE website and will be emailed to SAFE Members, exhibitors and symposium attendees.

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GRAND SIERRA RESORT AND CASINO RENO, NEVADA

Sleeping Room Reservations: Attendees should book their sleeping room reservations at the following 2019 SAFE Symposium host hotel: Grand Sierra Resort and Casino, 2500 East 2nd Street, Reno, Nevada 89502.

2019 SAFE Symposium Dates/Location: October 14 - October 16, 2019 at the Grand Sierra Resort and Casino in Reno, Nevada.

When calling the Grand Sierra Resort for reservations, please identify yourself with SAFE Association Symposium and use the code SAFE19 to receive the group rate.

Group Reservation Phone Number: (800) 501-2651 **Grand Sierra Main Line:** (775) 789-2000

2019 SAFE Symposium Group Code: SAFE19

Non-Government & Government attendees can book sleeping room reservations on-line at:

www.book.passkey.com/event/49807770/owner/16854/home

Call (800) 501-2651 and identify yourself as an attendee or member of the military/government (if applicable) attending the 2019 SAFE Association Symposium and provide the group code - **SAFE19**.

Standard Summit King / Queen Rooms: \$99.00

Standard "A" Level King / Queen Rooms: \$119.00

SAFE holds the room block for Non-Government and Government attendees from October 11-17, 2019.

Government per diem rate sleeping rooms are available at the prevailing government rate and are subject to change. Government employees and members of the military should advise the hotel reservation clerk (or include when reserving online) of their government affiliation. Provide the 2019 SAFE Association Symposium group code - **SAFE19**.

Room Reservation Deadline Cut-Off is Midnight, September 10, 2019, to be able to receive the 2019 SAFE negotiated sleeping room rates.

Payment Options: You can access all payment options on our website (www.safeassociation.com) including PayPal (requires no personal account to use) and the secure shopping cart. Use the **Symposium** link at the top of the web page and then the appropriate dropdown to register for the symposium, register for social events, reserve an exhibit space, and pay the associated fees.

Cancellation Policy: The hotel requires a one night's room deposit, per room, to guarantee accommodations. The hotel accepts all major credit cards for deposit, which is refundable if cancellation is made 48 hours before arrival. The deposit secures the sleeping room until 12:00 Midnight on the scheduled arrival date. If the guest plans to arrive after midnight, they must call to assure their accommodation is secured.

Discounted Rooms: Contact by companies offering to provide individual rooms or small room blocks at less than SAFE contracted rates have taken place. While the SAFE room rate may be a few dollars more than the rates quoted by these companies, this is because SAFE negotiates directly with the hotel to obtain the best price and amenities for our attendees.

SAFE's Financial Responsibility: SAFE is financially liable for all contracted rooms whether the hotel sells them or not. This policy is why we ask that you always book your rooms under the SAFE block. We work diligently to give all attendees the best overall experience at our annual symposium and we thank you for your continued support.

Notice of Housing Scam: If you are contacted by the "Exhibition Housing Company", "Global Housing" or any other company claiming they are the "official" housing service for the 2019 SAFE Symposium, and that they can obtain significant reductions for you on rooms, please do not do business with them. SAFE has made no arrangement, nor does it plan to, for the utilization of a 2019 sleeping room or housing service.

Management at the Grand Sierra Resort and Casino have reported this is becoming more of an issue across the country each year. They have also advised that these types of operations get as much money as they can, close up shop, and move. **They will take your deposit and run!**



SAFE 5k Runner 2019

Sunday, 13 October

Start Time: 15:00

COME HELP US CELEBRATE 10 YEARS OF FUN AND FRIENDSHIP!

Open to all SAFE Symposium Attendees, Friends and Family

Runners & Walkers are Welcome

LOCATION: Bartley Ranch Regional Park, Reno, Nevada

ONLINE REGISTRATION: Opens 1 August 2019 Check the SAFE website for more details.

*****Pre-registration recommended for a race shirt in your size*****

TRANSPORTATION: A shuttle bus will be provided between the Grand Sierra Hotel and Bartley Ranch Regional Park (10 min ride). **Available to all participants and spectators**

AWARDS RECEPTION: Awards for top finishers and much more! Race shirt and reception for all participants.

DAY OF EVENT SCHEDULE

10:00 - 14:00: Registration and packet pick-up

14:00: Shuttle bus from Grand Sierra to the Bartley Ranch Park (10 min ride)

15:00: Start of SAFE 5k Runner

15:45: Awards and reception

16:45: Bus departs the Bartley Ranch Park back to Grand Sierra Hotel

Event Details are posted on Facebook and SAFE Association website: www.safeassociation.com

To be a Volunteer or Sponsor, please contact: Marcia Baldwin at: mkbaldwin@coresurvival.com



CALL FOR 2019 CALL FOR AWARDS NOMINATIONS:

Recognize the *achievements* of your colleagues by nominating them for an award!

This year, we are very happy to announce that the 2019 Call for Award Nominations has begun. By now, you should have received the call for our annual award nominations. This year, we are asking for all packages to be sent to our administrator by close of business Monday, July 22, 2019. This will give us just the amount of time for us to meet as a board, review the packages, select the winners, and start the ceremony planning process. We will send out a reminder or two to all of our members as we get closer to the date. Please look around your organization as well as within our industry for those individuals that so much deserve this recognition. We look forward to the event at our 57th Symposium in Reno in October.

Since the first Symposium, the association has provided a professional platform for peers to acknowledge individuals and organizations that have made significant contributions to this industry and to the association. Each year, we take great pride in recognizing members of our community whose efforts and dedication have contributed to the preservation of human life. **This endeavor relies on you**, our SAFE membership, to take an active role in the recognition of those members of the safety and survival disciplines by submitting nominations for the various SAFE Association awards listed below.

2019 Call for Awards Nomination: Each year, we take great pride in recognizing members of our community whose efforts and dedication have contributed to the preservation of human life. This endeavor relies on our SAFE membership to take an active role in the recognition of those members of the safety and survival disciplines by submitting nominations for the various SAFE Association awards.

In reviewing the booklet that was sent in our notification notice, or on our website, please pay attention to each category of award and their respective definitions. A summarized version is below:

MICHAEL R. GROST CAREER ACHIEVEMENT AWARD

Presented to a person who, throughout his or her career, has made significant contributions to the field of safety or survival.

GENERAL SPRUANCE INDIVIDUAL ACHIEVEMENT AWARD

Presented to a person who has made a recent outstanding contribution in the field of safety or survival. This may have been through leadership or through advancement in the education, knowledge, science, application of investigative techniques, or engineering associated with a significant improvement in safety or survival.

TEAM ACHIEVEMENT AWARD

Presented to a team that has made a recent outstanding contribution 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

Presented to the person or persons who demonstrate a recent outstanding contribution to the preservation of human life through courage or bravery.

MURRAY P. KOCH INDUSTRY AWARD

Presented to those members of industry who have made recent significant contributions in the advancement of technology or hardware for safety and survival applications.

In the nomination booklet, you will also note the list of past awards and recipients. Please do not confuse the past awards with the new awards. This list of past awards and recipients only serves to highlight the history of our awards, our industry, and to recognize those past recipients.

We encourage you to take the time to show your support and appreciation for the countless hours someone you know has dedicated to our community! Do not allow someone deserving of recognition to slip away; submit your nomination today! Again, it is important to review each new award category and description carefully, and to submit your nominee in the correct category for proper evaluation. The 2019 nomination information is also available on the SAFE website (www.safeassociation.com). No nomination will be accepted if it is not on the correct nomination form. Those selected as recipients will be recognized during the 58th Annual SAFE Symposium being held October 14 - 16 at Grand Sierra Resort & Casino. We hope to see you there as we announce and recognize the 2019 award recipients. Finally, make a note now of the Monday, July 22th submission deadline. Thank you for your continued support!

Again, the deadline for nomination submissions is close of business, Monday, July 22, 2019.

For other questions please Email the SAFE Administrator at safe@peak.org or call (541) 895-3012.

SAFE ASSOCIATION AWARDS COMMITTEE

Pacific Rim Chapter Workshops for Girls In Science Event

On February 23, 2019, Dr. Rob Yonover of the Pacific Rim Chapter of the SAFE Association conducted workshops for the Girls in Science Program at the Sacred Hearts Academy in Honolulu, Hawaii. Sponsored by Sacred Hearts Academy, the Science Symposium 4 Girls is a free program which focuses on the areas of science, technology, engineering and mathematics (STEM). Students attend an opening keynote session by Dr. Lee Kim Buenconsejo-Lum with their parents followed by two workshops of their choosing. Included in the event was:



WORKSHOP #4 - BE AN ENTREPRENEUR AND AN INNOVATIVE INVENTOR!

Inquiring minds will be taken on a journey through the intricacies of the inventing process. Participants will receive hands-on exposure to some “survival” inventions that have saved lives all over the world, and they will use their own problem-solving skills to formulate their own inventions by using tools, including a “primitive” inventor’s kit.

Dr. Robert Yonover, Inventor, Chief Executive Officer and Founder | SEE/RESCUE Corporation/Pacific Rim Chapter SAFE Association



CBS Innovation Nation

Dr. Rob Yonover and the Pacific Rim Chapter continued their educational outreach efforts on a National stage with the showcasing and dissecting of the SeeRescueStreamer technology on CBS Innovation Nation for students (and their parents). Below is the link to the show where the streamer technology was demonstrated and explained to #AlieWard and #MoRocca.

https://www.cbs.com/shows/innovation_nation/video/IUDrKb9g8oWGQlhEouDzDQ361cs_Rwuu/innovation-nation-rescue-streamer/



SAFE Chapter One – Stargazing with an ocean view!

Chapter One invited members, family and friends to a local event last fall in conjunction with our annual meeting. In addition to the business obligations of the Chapter, we witnessed the evening sky's celebration through an array of telescopes. The bright planets were on parade that night! As twilight faded we started with Jupiter. The Galilean moons and cloud bands on the largest planet evoked jaw-dropping amazement. Saturn was also well-placed for viewing with its wonderful ring system beautifully tilted wide-open. Next up was Mars, which was closer to the Earth at this time than it will be until 2035. Later in the evening we also visited sparkling double stars, star clusters, and the best celestial sights the fall sky had to offer. Some for the attendees had never seen planets or deep space objects through large telescopes. The excitement of something new in the eyes of so many was inspiring to witness. Thank you to the amazing and hardworking volunteer astronomers that provided us this opportunity.



<http://www.ascd Dayton.org/TechFest/>

The SAFE Wright Brothers Chapter (WBC) recently continued a long-standing tradition of supporting an enduring STEM event held annually in Dayton at Sinclair Community College. TechFest™ is free two-day family event organized and conducted by the Affiliate Council of Dayton, which has been held yearly since 2003.

SAFE WBC had 15 volunteers who manned our booth for the two-day event held on February 16-17, 2019. We had a wide-ranging collection of items, to include videos and hands-on items. Our chapter wanted to both support this popular STEM event and also showcase the mission of the SAFE Association as it relates to the field of safety and survivability. Items were displayed in an interactive, hands-on format for children (and their parents!) to see and try on. Items included an ACES II ejection seat, crash test dummies, tactical vest with body armor, a U-2 pressure suit with helmet, and fighter pilot flight equipment ensemble.

TechFest™ 2019 had 1657 registered student attendees, counting parents, other adults and non-registered students. This year's total attendance was estimated 3,000 attendees. In total there were 71 exhibitors and 32 Info-Tainment presentations. Exhibits were located in Building 12 Ponitz Center, the Unmanned Aerial Systems Center in Building 13 and the Indoor Flying Pavilion in Building 18. A list of exhibitors and exhibit descriptions can be found at www.techfestdayton.org. Our host site, Sinclair Community College, has recently been approved by the Ohio Department of Education to offer two new bachelor's degrees in Aviation Technology and Unmanned Aerial Systems. It is listed in the top 20 of Drone Training Colleges in the United States according to Drone Training Headquarters (<https://dronetraininghq.com/drone-training-colleges-best/>).

SAFE WBC President Mark Gruber, and local Chapter member and SAFE President-Elect John Plaga volunteered a number of hours both in coordinating the Chapter support to this event, and also in personally manning the booth.

Gentex President/CEO Jumps with Red Devils to Mark 125th Anniversary and Launch Next Quarter Century of Innovation

Company celebrates with special charitable giving initiative



Carbondale, PA, March 12, 2019. Gentex Corporation, a global leader in personal protection and situational awareness solutions for defense forces, emergency responders, and industrial personnel kicked off its 125 year-anniversary last week with company president and CEO, L.P. Frieder doing a tandem jump with The Red Devils, the official parachute display team of both The Parachute Regiment (The Paras) and the British Army. Conducted in DeLand, Florida, the jump marks past accomplishments, including its pivotal parachute production, and launches the company's next quarter-century of innovation and excellence.

Established in 1894 with the construction of its first textile plant, the company leveraged its material science and manufacturing expertise to produce silk cartridge bags during World War I, then parachutes during World War II, which directly led to the development of the nation's first hard shell helmets for jet fighters in 1948. This firmly established Gentex as the global leader in helmet systems for defense forces and solidified its enduring mission of providing personal protection and situational awareness solutions for defense forces, emergency responders, and industrial personnel.

"Our evolution is a direct result of listening to our customers and providing them solutions to their problems," said L.P. Frieder, president and CEO of Gentex Corporation. "We're all proud of this and the many notable programs we've supported over the past 125 years, including the recent USMC Enhanced Combat Helmet (ECH), USSOCOM Ops-Core FAST Helmet programs, and now the F-35." Frieder added, "We've stood for innovation, quality, and reliability, which will continue to define us in the future as we address the issues of the ever changing, and increasingly challenging environments our customers work in."



As Gentex embarks on its next quarter century, the company will further its focus on mission effectiveness, integrating new technologies into their helmet system platforms, as well as continued expansion of its optics, hearing protection, communications, and respiratory capabilities and products.

"A key aspect of our 125th anniversary celebration is making a positive difference in the lives of our customers and the communities that have supported us and made our success possible," said Frieder. "Employees at each of our five global facilities will be holding special fund-raising events over the course of our anniversary year." Frieder added, "I couldn't be prouder of our employees who are further contributing to the great work that charities are doing in support of the sacrifices many of our customers have made."

Other members of Gentex's leadership team, including Chairman of the Board, Peter Frieder and Heather Acker, Executive Vice President and CFO, also participated in the anniversary jump, along with special guest, Travis Haley, a veteran Force Reconnaissance Marine and CEO of Haley Strategic Partners.

Gentex partnered with The Red Devils in 2016 to help support The Paras and the British Army, both long time customers of Gentex Corporation, and to promote their common goal of advancing parachuting and skydiving safety. Gentex provides their Ops-Core FAST Carbon High Cut Helmets and Ops-Core Mk1 Performance Protective Eyewear to The Red Devils to use during their promotional water jumps and for team training.

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More information about the company's 125 years of innovation and its charitable programs may be found at www.gentexcorp.com/125.

About Gentex Corporation

Leveraging a history that spans over 125 years, Gentex Corporation is a leading provider of innovative solutions that enhance personal protection and situational awareness for global defense forces, emergency responders, and industrial personnel operating in high performance environments. The company's product portfolio includes helmet system platforms and capability upgrades for defense and security forces, sold under the Gentex, Ops-Core, ALPHA, Cromwell, and Argus brands; Aegisound hearing protection and communications products for military and industrial personnel; PureFlo industrial respiratory protection systems; Dual Mirror OEM aluminized fabrics; and Filtron OEM light management technology. Privately held, Gentex is headquartered in Carbondale, Pennsylvania, and supports its global customers through a worldwide distributor network and five other facilities in the U.S. and the U.K. Learn more at www.gentexcorp.com.

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Flight Clothing

David De Simone, was the Former DPM to NAVAIR R&D, Acquisition, and Fleet Support and Block program Manager for Air Vehicles, Materials and Human Factors Engineering for ONR. Three times Past President of SAFE.

Some things remembered 1959 to 1990 with regard to **Flight Clothing and Helmets**. Most of the old programs can be found in the SAFE archives.

My introduction to **Flight Clothing** started with the MK IV Full Pressure Suit. A version of this design by B.F. Goodrich was used as the Mercury Astronaut suit. All the Navy engineers left to work for NASA and I was left with a \$4M Pressure Suit development program. The effort was chiefly to get more mobility while under 3.5 psi in a mission completion mode after cabin depressurization. This was when canopy seals had the bad habit of blowing out at the most inconvenient times. The Navy had gone to a Full Pressure suit and helmet and the Air Force had gone to what was dubbed a partial pressure suit with the same external constriction of the body as the G-suit.

The full pressure suit was more comfortable but less mobile under pressure since you had to overcome the ballooning of the suit. The pressure helmet was well accepted since there was no mask but a face seal with a 1 inch of water pressure differential over the suit pressure. We concentrated on shoulder mobility and tried a cable restraint with Teflon coated fabric, a shoulder bearing system, restraint tapes, all of which were incremental improvements but still not satisfactory. Mod 4 with the shoulder bearing was the best. The improvement that exists to this day on all pressure suits in all applications is the 2-to-1 mechanical advantage pulley system used for helmet tie down. The standard loop buckle was terrible. We made the first one in the shop and showed all the suit manufactures. This simple device allowed for tightening of the helmet tie-down under pressure when the suit elongates and the helmet leaves the shoulders and, if unchecked, breaks the face seal. The helmet and visor was the best windblast protection devised and the weight of 6 pounds was born by the shoulders and was no problem. The bearing attachment to the suit provided sufficient range of motion. We worked hard on quick-don features such as a circular zipper entrance, quick disconnect glove attachment, and quick-lace boots. What fun!

We built in anti- exposure protection and it matched the Poopy Suit in performance without the leaks. One of the key lessons was that a heavy helmet can be supported by the shoulders rather than the neck and it is comfortable. If visor displays were possible then this was a perfect platform with t stability unattainable by a helmet mated to the skull and scalp. The helmet was such an acceptable item Robertshaw developed the Clam Shell helmet which had the same breathing system but lacked the shoulder support. It hinged on the cross center line and opened for don and doff. It was a great wind blast helmet and was favored by the A-6 population until it was deemed too heavy and unsafe in high g environments. Removing the mask from

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the face is a big comfort improvement and the field of view improvement of the full face visor with defog O2 blowing over it was a big hit. These helmets were perfect for off bore sight targeting and visor displays shoe-horned into today's super lightweight helmet designs. Keeping the skull and scalp in direct contact with the helmet shell through energy absorbing foam transmits unwanted vibration in aircraft like the E-2D. The fighter helmet is suited for fighters, not all aircraft. Excuse me for addressing a current problem. My thought is that the old webbing suspension system in a cranial with modern ear cup with active noise cancellation and directional outside communication is a better solution for the vibration noise environment.

We had a revolution in flight suits and gloves with the advent of NOMEX yarn and filament development by DuPont. Introduction into flight clothing was not easy. Thanks to Alice Stoll, Naval Air Development Center, and her long study on cockpit burn scenarios and the use of her fire pit facility a case was made for the need for flame resistant clothing to replace the dyed cotton fire retardant versions in use by all the services. DuPont's main interest was the commercial market for upholstery fabrics and other household and industrial applications. Our testing and prototyping benefitted the DuPont plan. A shocker was that the Defense market was minuscule by comparison and did not have any leverage over the direction of product development. We favored the filament NOMEX for our garments that didn't have to breathe like winter jackets. Filament wore like iron and had a pleasing shiny look. DuPont did not want to promote filament but wanted spun yarn to be developed into fabric for use in flight suits and gloves and ultimately upholstery.

The first FRP flight suits, when worn, developed unsightly pills that looked like hair growth, but the fire resistance was there. We are talking minutes exposed to direct flame! Things got better as finishes were developed for the spun yarn and we have the attractive suits of today in Air Force sage green. The Navy was the first to adopt NOMEX in suits and gloves. The Army and Air Force had to be coaxed to give up their leather and colored flight suits. The glove now used by all services in all applications went through a series of prototypes with ultimate adoption of the kid skin leather palm and fingers. I learned there really is a place called Gloversville in New York and making gloves is an ancient art. Who knew that Kid skins from Australia were imported in barrels? Or, that gloves are made on forms one size at a time by hand. This was another learning experience among many in this business of ours. To continue, The Army was happy with the new fancy designs of suit and gloves, but the USAF didn't like green and preferred leather gloves. We showed the damaged hands from plentiful cockpit fires of the time but the Air Force would not budge on the gloves. We finally partnered with Army and went to DPSC/defense Logistics Agency (DLA) and got them to declare the glove and suit as tri-service items and that there would be no others procured. We agreed to make everything Sage green instead of forest green and the Air Force capitulated. This is what we have today!

Helmets

We have had every variety of helmet with one constant; they all ended up being Gentex helmets. There was Sierra Engineering, Helmets Limited, JMR and Onitech, all acquired by Gentex and Peter Frieder, their President. The early APH-5 and 6 the SPH-3, the BPH-2 were 7 ply fiberglass designs with penetration and impact resistance tested to specifications that were more suited to manufacturing similarity than for physiologically based criteria. The suspension systems were webbing with a nape strap to keep them on in wind blast. You roll a helmet on and off. The nape strap keeps the helmet on! Eventually, this was forgotten in the quest for the super lightweight helmet. The form fit, light weight helmets fly away in windblast because helmets roll off and on as before. Theories of aerodynamic lift and CG shift are not necessarily invalid but the basic is that helmets roll off. They start to roll with a gz force (catapult/rocket) and finish rolling with a gx force (windblast) and they will roll off. I love high speed track shots and the films they produce. The Army replaced the Sound Protective SPH-3 with the SPH-4 a duplicate that was competitively procured. These are made to house larger ear defenders for use in the noisy helicopter environment. They are as effective as the ear cup technology, which today is at its best.

There are basics in helmet design. The head is 11 pounds and the neck is used to that. Add more weight and the neck doesn't like it, and even can be hurt in a high g environment. Much attention is paid to CG to minimize the effects of added weight so that physiological limits are not exceeded in most scenarios. The addition of visor projection and night vision go in the wrong direction with regard to physiology but the performance sought is mission enhancing. The attempt to attach the helmet to the scalp as much as possible ignores the fact that the scalp moves and is unstable. All the form fitting possible will not alter this inconvenient fact. The shoulder-supported pressure suit helmets were more stable and they were 6 lbs but with a very good weight distribution. The problems today are the same problems of yesterday. It is a shame that the now generation of designers don't talk to the old guys who are still around, although of late they are dying off a rapid rate. I have been in the Industry world since 1990 and have yet to get a phone call from the now generation and the same is true for all the old guys who worked NACES, Crashworthy Seats, Helmets, OBOGS, flight clothing, Seawars, Uwars, and other stuff that is still out there. There is not much that is new in the last 20 years.