Bruno Dambrine, Technical fellow, Composite materials and structures
Safran Group

Presentation: Certification Considerations for 3D Composites

For three decades, Bruno Dambrine has served as an expert in composite materials and as Technical Fellow at Snecma, a subsidiary of the Safran Group. Dambrine graduated as an Engineer in Mechanics in 1976 from the École Nationale d’Ingenieurs de Metz (France) and completed his Ph.D. degree in Materials Science from the University of Technology of Compiègne (France) in 1982.

Dambrine’s doctoral research focused on fracture mechanics of materials, more specifically fracture toughness of steels under static and dynamic loadings (SHPB). He was later hired by Snecma as a Research & Development Mechanical Engineer, in which he conducted research regarding the modeling of nonlinear behavior of high temperature materials and composites, as well as virtual manufacturing of aircraft engine components.

Dambrine has also worked on the development and the introduction of 3D woven preforms used in the composite fan blades and fan cases for the CFM International LEAP turbofan, a joint collaboration between General Electric Company and Snecma. Today, he is acting as a scientific authority in the field of materials and processes at Safran. In addition, Dambrine has authored more than 120 publications, of which more than 100 were patents for inventions.

Jon Goering, Divisional Chief Technology Officer
Albany Engineered Composites, Inc.

Presentation: Certification Considerations for 3D Composites

Jonathan Goering has been with Albany Engineered Composites since 1998 and currently holds the position of Divisional Chief Technology Officer. In this role, he is responsible for defining the technical direction of the Division’s Research, Technology and Development (RT&D) group and provides input on strategic initiatives for the Company. He has been instrumental in the development of technologies that led to the production of advanced composite components, including 3D woven, resin transfer molded fan blades and fan cases for commercial jet engines, and 3D woven preforms for composite landing gear braces.

Mr. Goering holds Bachelor of Science and Master of Science degrees in Mechanical Engineering from Kansas State University. He has been active in the field of advanced composite structures for more than thirty-five years, and held positions with The Boeing Company (formerly McDonnell Douglas Aerospace), Materials Sciences Corporation, and The Trane Company prior to Joining AEC. His areas of expertise include the design of fiber preforms and composite components, computational mechanics, and advanced textile manufacturing processes.

Dr. Jon C. Haass, Associate Professor of Cyber Intelligence and Security
College of Security and Intelligence, Embry-Riddle Aeronautical University

Presentation: Aviation Cyber Security: Touchdown to Takeoff

Jon Haass is professor and department chair of the Cyber Intelligence and Security degree program at the nation’s first College of Security and Intelligence at Embry-Riddle Aeronautical University in Prescott, Arizona. He was co-author of ACRP report 140 on Cyber Security Best Practices for Airports supported by the National Academy of Sciences Transportation Research Board. Dr. Haass serves as advisory board member for the Arizona Cyber Threat Response Alliance, a regional information sharing and analysis organization that
includes companies in 14 of the critical infrastructure sectors, including aviation. His areas of research interest include the security issues associated with connected cyber-physical systems that encompass airplanes, cars, industrial controls and more. This Internet of Things (IoT) is likely to open an even larger portion of societies systems to cyber based attacks requiring us to educate our students, developers and leaders to the importance of this relatively new domain.

Previously, Dr. Haass held executive and management positions at Sun Microsystems, OpenTV and SendMail where he was responsible for projects ranging from moving map displays and GPS to digital television and prevention of email borne malware. He serves as a Cyber Security expert for corporate boards and anticipates the need for representation on boards for every publicly traded company. He is a speaker to local and national audiences, bringing complex ideas into clear focus. He received his PhD from MIT, where he also served after graduation as a CLE Moore Instructor. A native of Wyoming, he continues to work with companies and agencies on both coasts as well as the Rocky Mountain region. His passion is to educate the next generation of cyber security professionals inspiring integrity, curiosity and shared leadership.

Steve Hull, IEng FRAeS, Aviation Director
RTI Group, LLC
Presentation: Do Airlines Really Understand Pilot Suicide?

Steve is passionate, knowledgeable and experienced in aviation, more importantly aviation safety and accident investigation. He has over 45 years of aviation experience, with 24 years in safety, safety management, accident investigation and hazard identification/risk assessment, combined with 8,500 flying hours as a Flight Engineer on the B747 and Concorde.

He is the Aviation Director for RTI Group, assisting insurance companies dealing with aviation claims, investigating incidents and accidents. He also runs safety auditing and training for several airlines and aerospace organizations and lectures in all areas of aviation safety.

Steve recently completed two years as Safety Director for VLM Airlines based in Antwerp, where he successfully guided the airline through the IOSA accreditation process. At VLM Airlines, he produced an introduction to “Safety Management” training course and trained every staff member. He also produced courses on Emergency Response and Go-Team training.

During his career, he has been a Senior Air Safety Investigator, Senior Air Safety Manager, Licensed Aircraft Engineer and Flight Engineer and has investigated numerous incidents and accidents and led a team to investigate the causal factors. Steve was also the initial lead investigator on the B777 accident at Heathrow in 2008.

While with British Airways, he carried out detailed audits and risk assessments of new BA partner and franchise airlines and represented British Airways on partner and franchise airlines Safety Boards.

He is the former Chairman of the UK Flight Safety Committee and currently is a Fellow of the Royal Aeronautical Society, Membership Secretary of the European Society of Air Safety Investigators and an accredited IS-BAO Accredited Auditor.

Patrick McNulty, Coordinator, Technical Marketing & Sales
Honda Aircraft
Presentation: HondaJet Product Presentation

Patrick McNulty joined Honda Aircraft Company in 2013 and currently leads the Technical Marketing and Sales function for Honda Aircraft Company. His current responsibilities include:

- Providing sales engineering support for the HondaJet dealer network;
- Delivering product presentations and information to HondaJet customers and aviation industry stakeholders, development of strategic sales initiatives;
- Management of customer aircraft financing activities

Prior to joining Honda Aircraft, he held various positions, roles and responsibilities at Eclipse Aviation and Rolls-Royce of North America.

Patrick earned his undergrad degree in Aerospace Engineering and later received his MBA in Aviation from Embry-Riddle Aeronautical University.

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**Dr. Story Musgrave, Former Astronaut**

*Presentation: Aviation and Spaceflight: The Beauty, the Glory and the Sacred*

Story Musgrave was born in 1935 on a dairy farm in Stockbridge, MA. He was in the forests alone at 3 and by 5 floated his homebuilt rafts on the rivers. He rode combines at 5, drove trucks and tractors at 10 and when alone in remote fields repaired them by 13.

He never finished school, ran off to Korea with the U. S. Marines where he was an aircraft electrician and engine mechanic. He started flying with the Marines and over the next 58 years, accumulated 18,000 hours in over 160 aircraft. He is a parachutist with over 800 freefalls.

He has 6 graduate degrees in math, computers, chemistry, medicine, physiology, and literature. He has been awarded 20 honorary doctorates. He was a part-time trauma surgeon for the duration of his astronaut career.

He was a NASA astronaut for over 30 years and flew on six spaceflights. He performed the first shuttle spacewalk on Challenger’s first flight, was a pilot on an astronomy mission, conducted two classified DOD missions, was the lead spacewalker on the Hubble Telescope repair mission and operated an electronic chip manufacturing satellite on Columbia. He was the communicator in mission control for 25 missions.

Today, he is a producer/director of multimedia, a landscape architect, a heavy equipment operator, an innovator with Applied Minds Inc, and a professor of design at Art Center College of Design in Pasadena, CA. Story also performs multimedia corporate presentations on the topics of design driven innovation, project management, operations, human performance, reliability, quality and safety. He has 7 beautiful children: Lorelei, Scott, Holly, Todd, Jeff, Lane and Story, ranging from age 55 to 8 years, 3 beautiful grandchildren, and a beautiful wife, Amanda.

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**Andreas Pakszies, Senior Project Manager**

Lufthansa Technik North America

*Presentation: The Comeback of a Legend*

Andreas Pakszies was born in Hamburg, Germany. After graduating from German Secondary School, he served in the German Military from 1980 to 1982 and then went on to graduate from the University of Hamburg in 1987, with an engineering degree in Aircraft Construction. His career with Lufthansa began in 1987 as an Aircraft System Engineer in Engines. He has since held a variety of positions within the company, including Director of Aircraft System Engineering and Director of Line Maintenance for Germany Region West. Pakszies now serves as the Senior Project Manager for Restoration of the Lockheed Super Star.