

Aviation Accreditation Board International

2016 Industry/Educator Forum



Industry/Educator Forum Educators Response

Thursday, February 25, 2016, in Atlanta, Georgia

Industry / Educator (I/E) Forum Introduction (0745-0800) - *Doug Dyjak*

Educator Response Panel Session (0800-0930)

Intro Track 1 – Flight Ops & FOQ Update

Intro Track 2 – Maintenance

Intro Track 3 – Aviation Management

8 years of I/E Forum Topics (0930-0945) – Doug Dyjak

Refreshment Break (0945-1015) (Cirrus Aircraft) – Prefunction South

I/E Forum Committee Meeting (1015-1130) – Select I/E Forum Topics for July 2016 Meeting in Toronto, Canada

Luncheon (1145-1315) – Lobby South - guest speaker *Captain Jon Tovani, Managing Director Flight Training, Delta Air Lines*



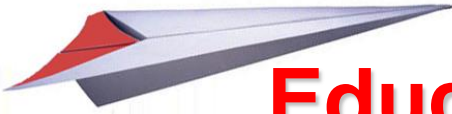
Industry/Educator Forum History

- Established 21 years ago in 1994 at AABI meeting hosted by Boeing
- Objective was a formal way for Industry to address Educators
- AABI President Jack McNamara affectionately called it “The Grand Bazar”
- First (controversial) topic had to do with Industry desire that all students take calculus. Educators were not pleased!
- About ten years ago past AABI President Don Skiados challenged us to create a venue for formal response from Educators to Industry
- Tradition continues this winter ...



Industry/Educator Forum Structure

- **Three Co Chairs:**
 - Doug Dyjak, Industry Member representing Boeing
 - Peter Morton, Practitioner Member
 - Dr. Mary Niemczyk, Director Aviation Programs, Arizona State University, Chairs Educator Responder Panel
- **I/E Forum Committee selects topics during Winter meeting**
 - Issues on the “event horizon”; e.g. emergent glass cockpits
 - Competencies; e.g. new hire written & oral communications
 - Industry background information; e.g. international aviation law
 - Committee tries to balance topics among accredited program types; e.g. Flight education, Maintenance, Aviation Management, etc.
- **Industry presents at AABI Annual meeting (Summer) I/E Forum; full day**
- **Educator response at AABI Winter meeting I/E Forum; half day**
- **Proceedings published; educator members use/apply Forum information and presentations as they deem appropriate**
- **Criteria Committee considers impact on Accreditation Criteria**



Educator Responder Reports

Chair: Dr. Mary Niemczyk, Arizona State University

Track 1 - Flight Operations & FOQ Update

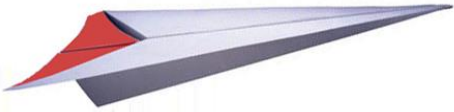
- Dr. Elizabeth Bjerke, University of North Dakota

Track 2 - Maintenance

- Dr. Raymond Thompson, Western Michigan University

Track 3 - Aviation Management

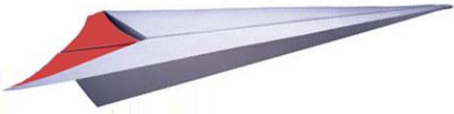
- Ms. Nikki O'Toole, Embry-Riddle Aeronautical University



Track 1 Intro; Flight Operations & FOQ Update
Moderator: Mary Niemczyk

**Educators Response to Industry presentation in Seattle, July 2015,
by Captain John Hornibrook, Managing Director, Chief Pilot, Flight
Operations Administration Alaska Airlines**

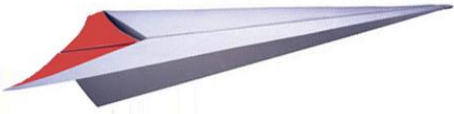
Dr. Elizabeth Bjerke, University of North Dakota



Track 2 Intro; Maintenance
Moderator: Mary Niemczyk

**Educators Response to Industry presentation in Seattle, July 2015,
by Mr. Greg Mays, V.P. Maintenance and Engineering, Alaska
Airlines**

Dr. Raymond Thompson, Western Michigan University



Track 3 Intro; Aviation Management
Moderator: Mary Niemczyk

**Educators Response to Industry presentation in Seattle, July 2015, by
Mr. Joe Sprague, Senior V.P. Communications and External Relations,
Alaska Airlines**

Ms. Nikki O'Toole, Embry-Riddle Aeronautical University



8 years of I/E Forum Topics

2008 - Illinois University, Champaign, Illinois

Panel 1: “The First 1000 Hours”

Panel 2: Safety Management Systems Implementation & Challenges

Panel 3: Recruiting, Employing and Empowering Technicians from 2 and 4 Year Programs

Panel 4: Collegiate Advisory Boards in an Outcomes Accreditation Environment

2009 – Seneca College, Toronto, Canada

Panel 1: Security – Transport Canada, TSA, Cape Air, Pearson Airport, Collegiate Security

**Panel 2: Outcomes Accreditation and Information Technology Support
Foliotek, Blackboard, E-Learning, ABET Accreditation**

2010 – Kansas State, Wichita, Kansas

Panel 1: Legal Responsibility, Aviation Character and Professionalism

Panel 2: Tools of Airline Safety and Risk Management

FAA Academic Outreach/Gary Layton



8 years of I/E Forum Topics

2011 - University of Oklahoma University, Norman OK

Panel 1: Setting the Stage on Aviation Safety

- General Aviation Fatal Accident Reduction is FAA Top Priority

Panel 2: FAA - AFS-200 John Duncan, Tony Fazio, FAA;

- Proactive Safety: Applying FOQA & ASAP to GA
- GA Joint Steering Committee: Evolving to a Data Driven Approach
- Prof. Brian Dillman, Purdue - SMS Practices in University Programs
- A Framework for Professionalism, Responsibility and Decision Making

Panel 3: Maintenance, Airmen Testing & Airport Runway Incursions in Aviation Safety

2012 – ICAO, Montreal, Canada

Issues before ICAO's Air Navigation Conference

Panel 1: Flight Crew Qualification Rulemaking Panel

- MPL Perspective Around the World
- European Accreditation

Panel 2: Proposed Educator Internship



8 years of I/E Forum Topics

2013 – AEA and University of Central Missouri, Kansas City, Missouri

Panel 1: Preparing Flight Education Graduates for NextGen ADS-B, PBN/RNP & FDM

**Panel 2: AABI Faculty Development Program: Committee Report & results from Beta Test UND at Cape Air
Flight Data Monitoring for Safety & Maintenance**

Panel 3: Maintenance Programs & Flight Data Monitoring

2014 – Middle Tennessee State University, Nashville, Tennessee

Panel 1: Preparing Aviation Management Graduates for Professional Employment With Airlines & OEMs

Panel 2: Optimizing the Maintainability, Reparability, Reliability in Design of New Airplane Type(s)

Panel 3: Preparing Flight Education Graduates for NextGen ADS-B, PBN/RNP & FDM



Industry/Educator Forum

Plan now to attend:

**July, 2016 AABI Meeting
Hosted by Seneca College
In Toronto, Canada**



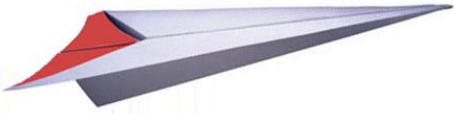
Luncheon Speaker

Captain Jon Tovani

Managing Director Flight Training, Delta Air Lines

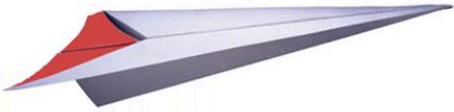
Luncheon Location - Prefunction South





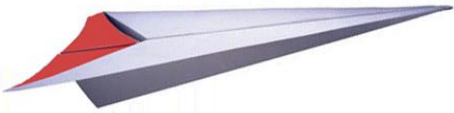
Refreshment Break

**There are two types of aviation programs:
Those that are AABI accredited,
and those that will be.**



July I/E Forum Candidate topics:

- NASA: Electric-Propulsion X-Plane Is Just First Step
- First FAA Approved Aviation Maintenance Technology - E-Learning Course Leading to FAA A&P Certification and Associate Degree
 - invite Spartan and C-T-S to jointly make a pitch on how well it is going
- At NTAS last year we had presentations on electric airplanes that suggest they can be used for training.
 - Pipistrel has one, and so does George Bye (see enclosure)



July I/E Forum Candidate topics:

- How about Boeing and/or Airbus plus two major carriers who operate 787 or A350 on a panel describing how the new aircraft maintenance computers and such require new knowledge on the part of maintenance and management graduates. In other words, these new aircraft have a unique “ecosystem” in which they are optimized; what does it take from an airline to make that ecosystem work to its optimum. Even though it is a maintenance feature, flight crews also have to know how data is taken from the airplane, how data is loaded to keep systems up to date, etc.



July I/E Forum Candidate topics:

- How about Boeing and/or Airbus plus two major carriers who operate 787 or A350 another session on performance based navigation.
- Sandel might be willing to come and provide a status report on PBN with their purpose-built Aylon retrofit avionics suite. For that, I'd invite Captain Steve Fulton and Del Fadden to speak extensively, both of whom are deeply involved in the design of the system.
 - The Aylon avionics suite delivers the first King Air retrofit in July, so it would be timely for them to “come out of their closet” To see what I am talking about, click on <http://www.sandel.com/avilon> .
 - We would charge them to speak to how educators can embed PBN and the other NextGen technologies in academic and laboratory curriculum.