AEEC

Together "We Set the Standard."

To	FOS	**Date**	January 26, 2017
From	Scott L. Smith scott.smith@sae-itc.org tel +1 240-334-2582	**Reference**	16-999/SMA-986 klp

Subject **Meeting Announcement**
Fiber Optics Subcommittee (FOS)

Chairman Robert Nye, The Boeing Company

When June 13-15, 2017
Tuesday-Wednesday from 0900 to 1700
Thursday, from 0900-1300

Host OFS is hosting the FOS meeting. They have made arrangements for the meeting space. A special hotel rate is available.

Where Meeting Location

Avon Old Farms Hotel
279 Avon Mountain Road
Avon, CT 06001 USA
tel + 1 860 269-0235
fax + 1 860 674-0401
http://www.avonoldfarmshotel.com

Travel information is provided later in this AEEC meeting announcement.

Hotel OFS, the meeting host, has arranged for meeting space and a preferred hotel rate for meeting attendees at the Avon Old Farms Hotel. OFS has arranged for breakfast and lunch on each meeting day.

To make hotel reservations, contact:

Kathy Devaux
OFS
tel +1 (860) 678-6631
KDevaux@ofsoptics.com

Note: The hotel group rate of **$127** is available to those who make reservations before **May 22, 2017**.

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Instruction

Please notify ARINC Industry Activities of your intention to attend by registering online at: *http://www.aviation-ia.com/events/*

The meeting is open to all interested parties. Individuals requesting time on the agenda should contact Scott Smith. Any material intended to be circulated prior to the meeting should be submitted before June 9, 2017. The agenda will be finalized one week prior to the meeting.

Activity Scope

The Fiber Optics Subcommittee (FOS) will meet to continue the development of ARINC Fiber Optic Standards used in air transport aircraft and other aircraft with similar requirements. The subcommittee's current work projects include documenting Mechanical Transfer (MT) technology in airborne fiber optics

This project is intended for future aircraft programs as well as the retrofit of existing airframes. Applications for this technology include avionics, in-flight entertainment systems, and other uses.

Meeting Objectives

The FOS will review inputs intended for Draft 2 of **ARINC Project Paper 846:** *Fiber Optic Ferrule, Mechanical Transfer (MT).*

This project intends to define a new fiber optic Mechanical Transfer (MT) contact for use in high density applications with less weight and a smaller area footprint. It is expected that the first implementation of the MT will be incorporated into an EN 4165 connector.

The FOS will continue work on this project with discussion on physical characteristics, optical performance, qualification requirements, maintenance procedures, and testing for MT contacts.

The goal for this meeting is to evaluate existing MT ferrule designs for features that meet the specifications of ARINC Project Paper 846 and achieve consensus on all technical material concerning the MT ferrule design.

Existing FOS Standards

The FOS may review inputs for the existing ARINC Fiber Optic Standards Set, and prepare a schedule for producing mature supplements as follows:

- **Supplement 4 to ARINC Specification 801:** *Fiber Optic Connectors*
  - References to Expanded Beam and Mechanical Transfer information will be added
- **Supplement 3 to ARINC Specification 802:** *Fiber Optic Cables*
  - The MT termini will need a new cable type added to the standard. A Draft APIM from Boeing will be reviewed to add cable types to the document.
- **Supplement 4 to ARINC Report 803:** *Fiber Optic Design Guidelines*
  - The use of Mechanical Transfer, Expanded Beam, and 10 GBase technology will be documented for additional guidance
- **Supplement 2 to ARINC Report 804:** *Fiber Optic Active Device Specification*
  - The use of Mechanical Transfer, Expanded Beam, and 10 GBase technology will be documented for additional guidance

- **Supplement 5 to ARINC Report 805:** *Fiber Optic Test Procedures*
    - Material to be added specific to Expanded Beam and Mechanical Transfer termini
- **Supplement 6 to ARINC Report 806:** *Fiber Optic Installation and Maintenance*
    - Material to be added specific to Expanded Beam and Mechanical Transfer termini
- **Supplement 4 to ARINC Report 807:** *Fiber Optic Training Requirements*
    - Material to be added specific to Expanded Beam and Mechanical Transfer termini

New Technology

The FOS may discuss the need for new airborne fiber optic technology to satisfy new or retrofit aircraft programs. Any new project will require an ARINC Project Initiation/Modification (APIM) to be drafted for review by industry.

Travel Information

The major airports nearest to the meeting site are listed below with approximate distances:

Hartford, CT Airport (Bradley – BDL)	30 miles (48 km)
Providence, RI Airport (Green – PVD)	93 miles (150 km)
Boston, MA Airport (Logan – BOS)	120 miles (200 km)

Transportation between the hotel and the Hartford (BDL) airport is available Sunday through Friday. Please make reservations at least 5 days in advance by contacting Jeanne Soto at 860-677-1651 or through email at *transportation@avonoldfarmshotel.com*.

The following information will be needed to coordinate the airport shuttle:

- Name
- Cell phone number
- Airline
- Flight number
- Arrival time

For those attendees that will travel by rental car, the hotel has free parking for guests.

cc

SAI, CSS Subcommittees

Attachment 1

Attachment 1

A Furukawa Company

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ARINC Fiber Optic Subcommittee

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Meeting Details

- **Date:** June 13-15, 2017
- **Location:** Avon Old Farms Hotel
  (279 Avon Mountain Road Avon, CT 06001)

Meeting Details

- Avon Old Farms Hotel is a luxurious country hotel in Avon, Connecticut, just 10 minutes from downtown Hartford and it is part of the Classic Hotels of Connecticut collection run by the Brighenti family which includes the Farmington Inn, The Simsbury 1820 House, and The Simsbury Inn.

OFS Avon Location

- 14,000 square meter facility
  - 6 draw towers
  - 2 cable lines
  - 3 clean rooms
  - Plating capability
  - 5,600 square meters not utilized
- 140 people
  - Including operations, engineers, R&D, marketing, sales and administration

ISO 9001:2000

ISO 13485:2003

FDA registered

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- "Managing light" includes
  - Power delivery
  - Communication
  - Sensing
  - Illumination, Imaging
- Harsh or technically challenging environments include
  - Temperature extremes
  - Mechanical challenges
  - Chemical exposure
  - Radiation exposure
  - Biological exposure