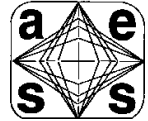


IEEE PHOTONICS Avionics Fiber Optics and Photonics Conference

AVFOP 2010



**21 – 23 September 2010
Marriott Conference Center
Denver, Colorado**

The aerospace industry has made great strides in recent years deploying fiber optics and photonics technology on commercial and military platforms. This trend will continue to grow as avionics fiber optic system architectures, networking schemes, and components evolve and mature. In parallel with data and video transmission, photonics technology for analog/RF, flight control, free-space communication, and vehicle monitoring applications will have an increasing role in future aerospace platforms. This application-oriented conference will provide a common international forum for leaders, researchers, engineers, technicians, logisticians, manufacturers, and instructors to convene and discuss all aspects of severe-environment fiber optic component, systems, reliability, maintainability, producibility and supportability technology, and its future direction.

FINAL CALL FOR PAPERS

Topics of interest include:

- Avionics and Vetrronics Fiber Optics and Photonics Technology Synergies
- Avionics Architecture/Networking and Standardization for Aerospace Systems
- Advanced Digital and Analog/RF Avionics Fiber Optic Networking and Transmission Systems
- Integrated Optics for Harsh Environments
- WDM Optical Components for Harsh Environments
- Optical Components for Analog/RF Signal Transmission and Distribution in Harsh Environments
- Fiber Optic Transmitters and Receivers (Transceivers) for Digital Avionics Systems
- Fly-By-Light Components and Systems
- Integrated Vehicle Health Monitoring/Prognostic Health Monitoring Optical Components and Systems
- Fiber Optic Sensors and Sensor Systems
- Power-By-Light Components and Systems
- Commercial-Off-The-Shelf (COTS) Fiber Optics and Photonics Technology Insertion
- Digital and Analog/RF Aerospace Fiber Optic System Engineering and Link Loss Power Budgeting Methodologies
- Optical Fiber, Connector, Terminus, Cable, and Splice Solutions for Harsh Environments
- Free-Space Optical Communication / Optical Telemetry in Harsh Environments
- Aerospace Optical Information Assurance
- Specification, Standardization, and Qualification of Aerospace Fiber Optic and Photonic Components
- Fiber Optic and Photonic Component Testing, Screening, and Packaging Ruggedization for Aerospace
- Avionics Fiber Optic Component, Link, and System Built-in-Test / Health Diagnostics
- Modeling and Simulation of Aerospace Fiber Optic Components, Links, and Systems
- Fiber Optic Supportability, Maintainability, Producibility and Training for Aerospace
- Avionics/Aerospace Fiber Optic Component and System Reliability
- Onboard Subsystem and System Concepts, Demonstrations, Developments, and Deployments
- Green Photonics Applications for Aerospace

Abstracts and Two-Page Summaries Due: May 20, 2010

For abstract and summary submittal information and presentation guidelines please visit – www.i-leos.org

Conditions for abstract acceptance and two-page summary publication:

Authors are expected to follow publication guidelines and deliver their papers or posters at the conference.

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