

## CALL FOR PAPERS

### SCOPE

The intent of this conference is to provide a forum for both contributed and invited papers on optical fiber communication and related topics ranging from basic research to hardware development and systems applications. To this end, the technical program is divided into four principal areas:

#### I. **Fibers, Cables, and Fiber Components**

Theory and propagation characteristics  
Design and fabrication techniques  
Materials and coatings  
Strength and mechanical fatigue  
Performance degradation and reliability  
Characterization and measurement techniques  
Splices and connectors  
Splitters, taps, couplers, WDM's and filters  
Fiber-based lasers, amplifiers, and superluminescent sources  
Nonlinear effects  
Fiber sensors and instrumentation

#### II. **Optoelectronic and Integrated Optics Devices and Components**

Semiconductor sources, detectors, and modulators  
Semiconductor laser arrays  
Semiconductor optical amplifiers  
Optoelectronic fabrication and epitaxy  
Lithium niobate fabrication and devices  
Planar glass and polymer devices  
Planar nonlinear and nonreciprocal devices  
Picosecond and femtosecond devices  
Component packaging  
Optical interconnect technology  
Optoelectronic/electronic hybrid integration  
Photonic switching devices  
Active WDM technology

#### III. **System Technologies**

Transmitter/receiver design and performance  
Coherent optical transmission  
Systems applications of ultrafast phenomena  
Soliton transmission  
Systems aspects and applications of optical amplifiers  
Sensor systems  
Analog and multichannel transmission technologies  
Cable television distribution technologies  
New applications of fiber-optic technology  
Theory and modeling for lightwave systems

#### IV. **Networks and Switching**

Telecommunications and cable television networks  
Metropolitan-area, local-area networks, and wide area networks  
Multiservice networks  
Network architectures and protocols  
Electronic/photonic switching architectures  
Passive optical networks and loop systems  
Gigabit networks  
Customer premises optical networks  
Fast packet switching  
Transparent optical networks

### SUBMISSION OF PAPERS

Original papers are solicited that have not been previously presented and that describe new technical contributions to the areas covered by the technical sessions as broadly described by the list of topics.

For a paper to be considered for presentation, each author must submit:

- ☐ a completed Contributed Paper Categorization Form and Copyright Form (these can be sent to you from Optical Society of America)
- ☐ 35-word abstract
- ☐ 200-500 word summary
- ☐ a set of camera-ready copies of any figures, tables, and illustrations
- ☐ a copy of the above materials

ALL ABSTRACTS AND SUMMARIES **MUST** REACH THE OPTICAL SOCIETY OF AMERICA EXECUTIVE OFFICE BY **SEPTEMBER 13, 1993**. For more information and forms contact:

#### **OFC<sup>®</sup> '94**

Optical Society of America  
2010 Massachusetts Avenue, NW  
Washington, DC 20036-1023  
202/223-0920; Fax 202/416-6100

**Registration for technical sessions is open to all members of the scientific and technical community. It is incumbent on the authors to obtain appropriate approval to present their work to this international forum.**

### OFC<sup>®</sup> '94 / MTT

OFC<sup>®</sup> '94 will include a symposium and a workshop organized with the IEEE Microwave Theory and Techniques (MTT) Society as technical cosponsor. The cosponsored activities deal with analog microwave applications of fiber optics, such as antenna remoting, phased array antennas, fiber optic microwave signal generation and processing, and measurement applications of microwave fiber optics. The Sunday workshop covers state-of-the-art results in analog microwave fiber optics, in an informal, interactive environment. The Tuesday Symposium presents four experts providing overviews of this field from various perspectives.

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