

## 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  
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**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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