

# First Announcement and Call for Papers for a new IEEE JOURNAL OF LIGHTWAVE TECHNOLOGY

The IEEE wishes to announce the publication of a new journal dedicated to the expanding field of guided wave technology. The first issue is scheduled for publication in March 1983 and quarterly thereafter for the remainder of 1983. In 1984, bimonthly publication is planned. This new journal is intended to be the principal forum for publication of guided light technology papers and recognizes the growth and importance of this technology area. Participating IEEE Societies include: Aerospace and Electronic Systems, Circuits and Systems, Communications, Computers, Electron Devices, Instrumentation and Measurement, Microwave Theory and Techniques, Quantum Electronics and Applications, and Sonics and Ultrasonics. Wide distribution is planned through the Optical Society of America and the IEEE, and the pricing of the journal to subscribers will further ensure a circulation to a large number of individuals and institutions.

As the principal forum for publication in optical guided wave technologies, it is intended that both research and development, and application topics be covered in the subject matter presented in this journal. Topics of interest include the following:

- 1) Fiber and cable technologies (waveguide phenomena, strength, fabrication techniques, materials, characterization installation technology, reliability testing and prediction, cable design and testing, coupling and splicing).
- 2) Componentry—active and passive (light sources, detectors, repeater technologies, component and subsystem characterization, modulation and multiplexing formats, test equipment, switches, filters, modulators, multiplexers/demultiplexers, etc.).
- 3) Integrated optics and optoelectronics (planar waveguide theory, fabrication and evaluation, switches/modulators, circuits, and applications).
- 4) Systems, subsystems and new applications (commercial and military, data transmission, optical communication networks (data buses, computer, integrated services, etc.), unique field trials which demonstrate technological advances, and other uses such as fiber optical sensors and signal processors).

Investigators in the guided wave field and related technologies are invited to submit original contributions, either as regular papers or letters, which report and/or illustrate state-of-the-art capabilities and advances.

The deadline for submission for the March 1983 issue is September 1, 1982. Additional information as to article format for the authors may be initially found on the inside back cover of current issues of the IEEE JOURNAL OF QUANTUM ELECTRONICS. Contributions to this new journal, consisting of the original manuscript plus two copies, should be submitted directly to the Editor.

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