

## Editorial Announcement

**D**UE TO unavoidable delays, the Special issue on the Applications of Quantum Electronics to Frequency Standards, Clocks, and Rotation Sensors does not appear this month. Papers in that area will be published instead in the IEEE JOURNAL OF QUANTUM ELECTRONICS, vol. 23, no. 4, April 1987.

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*Editor, J-QE*  
 (1982-1988)

## Announcing a Special Issue of the IEEE JOURNAL OF QUANTUM ELECTRONICS on Solid-State Lasers

**I**N RECENT years there has been a substantial revival in the development of solid-state lasers, enabled by advances developments in several areas:

- thin plate gain medium geometries for both glass and crystal lasers
- laser glasses with improved self-quenching and thermal strength properties, coupled with improved fabrication techniques
- sensitized neodymium laser crystals (e.g., Nd:Cr:GSGG) with increased efficiency
- crystal boules of increased size and quality, coupled with improved fabrication techniques
- semiconductor laser diode arrays and their use in pumping novel, compact, efficient solid-state laser sources with high coherence and stability
- novel phonon-terminated tunable solid-state lasers using a variety of laser ions and host materials
- continued development of nonlinear techniques (harmonic generation, Raman scattering, mixing, etc.) to achieve spectral diversity
- the development of nonlinear techniques (phase conjugation via four-wave mixing, Brillouin scattering, etc.) to achieve improved beam quality.

A Special Issue of the IEEE JOURNAL OF QUANTUM ELECTRONICS will address advances in all facets of solid-state lasers made recently and during the coming year. Authors are invited to submit contributions dealing with the science and technology of solid-state laser devices and

systems, including theoretical and experimental study of novel laser design principles, characterization of known and novel materials related to laser performance, and results on novel solid-state laser devices and associated techniques.

The deadline for submission is **July 31, 1987**. The publication of the Special Issue is scheduled for April 1988. Additional information required for the authors is found on the inside back cover of current issues of the IEEE JOURNAL OF QUANTUM ELECTRONICS. Contributions should consist of an original plus two copies of the manuscript and original figures suitable for reproduction. The manuscript should be accompanied by a completed copyright form. Full reference titles, together with beginning and ending page numbers for each citation, should be included in the reference list. This Special Issue will be edited by the Guest Editors cited below:

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