First International Symposium on Cold Cathodes

Dielectric Science and Technology/Electronics/Luminescent and Display Materials

198th Meeting of the Electrochemical Society

Date: October 22-27, 2000
Location: Phoenix, Arizona, USA

This symposium will address recent developments in the area of cold cathodes with emphasis on theory, modeling, experiment and fabrication. Papers will cover fundamental aspects of science and engineering, as well as related technology and applications.

Areas of particular interest include:

- Characterization of electron emission into vacuum: theory and experiment (energy distribution, transport mechanisms, current-voltage characteristics, Nottingham effect, *etc.*),
- Proposals for electron-emissive materials with low work function,
- Device fabrication and reliability issues,
- Thermal effects and Emission Noise (flicker, shot),
- Emitters (*e.g.*, Spindt-type field emitters, Negative electron affinity and Cold Cathodes, Photocathodes, Ferroelectrics, Carbon nanotubes, *etc.*),
- Devices applications (flat panel displays, pressure sensors, vacuum transistors, microwave tube-amplifiers, electron-beam lithography, electron guns, free electron lasers, Hall thrusters, satellite tethers, hight-brightness microwave tube sources, high power applications, *etc.*). Several invited speakers will provide overviews of key topics of interest.

Publication of a proceedings volume is planned. Acceptance of a paper in this symposium **obligates** the authors to submit a camera ready copy of the full manuscript before, or at the time of the meeting. Manuscript page limit is 12 for contributed papers and 15 for invited papers.

The deadline for abstract submission is **May 1, 2000**. Abstracts, suggestions, and inquiries should be sent to the **ECS headquarters** and the symposium organizers. Please send a copy of the abstract submission form and the extended abstract to the ECS headquarters and also to **K. L. Jensen** at the address below.

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