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CALL FOR PAPERS

ABSTRACT DEADLINE: JUNE 21, 2005

REMINDER: *In fairness to all potential authors, late abstracts will not be accepted.*

MRS Symposium B: Next-Generation Batteries, Supercapacitors, and Other Storage Materials

This symposium will focus on the next generation of electrochemical energy storage systems and components for use in, for example, batteries and supercapacitors, and to interface with fuel cells. The continuing challenge to understand, control, and predict the structures and properties of solids, and to synthesize new compounds with novel or enhanced properties, has driven the energy storage field for the past 30 years. The evolution of materials for batteries has continued apace, and along with it advanced techniques for both modeling the behavior of the material and for experimentally determining the atomic level, as well as the nano- and microstructure.

Contributions to battery materials are now made by researchers who are active in numerous research fields, including materials science and engineering, chemistry, chemical engineering, mineralogy/geology, and condensed-matter physics. This symposium will provide an interdisciplinary forum for the presentation and discussion of recent and expected advances in battery materials research as well as the impact of the development and application of new concepts.

Original papers are requested dealing with, or relating to, the following topics:

- Novel electrode materials
- Novel concepts for next-generation systems
- 3D systems
- Intercalation materials
- Computational methods
- Microporous materials
- Inorganic/organic hybrids
- Composite materials
- Techniques for characterizing materials
- Soft chemistry
- Nanochemistry of inorganic materials
- Surfaces and interfaces
- Solid-state ionics
- Amorphous vs. crystalline materials

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For additional meeting information, visit the MRS Web site at www.mrs.org/meetings/ or contact:



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