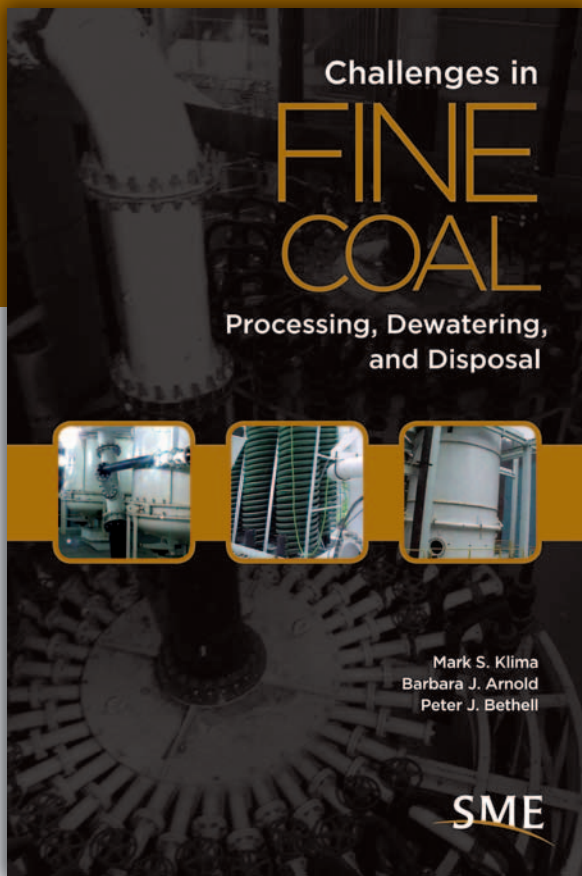


# Challenges in FINE COAL Processing, Dewatering, and Disposal

Mark S. Klima, Barbara J. Arnold and Peter J. Bethell



## Challenges in FINE COAL Processing, Dewatering, and Disposal

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and Peter J. Bethell

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Coal mining and preparation have had a long history in the United States and the world, serving as the engine of growth for many industries. Today, new sources of energy, increased environmental awareness, and more stringent regulations from the U.S. Environmental Protection Agency and other organizations are changing the way coal is found, extracted, and used. As a result, fine coal cleaning, dewatering, and refuse disposal are now at a major crossroads.

The increased level of fines, and near-density material in the inferior seams being mined today, necessitates the development of more efficient fine coal cleaning devices. This in turn requires improvements in traditional dewatering techniques to address the need for acceptable moisture levels in plant products. Moreover, the larger volume of fine refuse being generated, coupled with harsher disposal regulations, requires upgraded treatment options.

This book is a compilation of information presented at the 2012 Fine Coal Symposium, sponsored by the Coal Preparation Society of America; the Pittsburgh Section of the Society for Mining, Metallurgy, and Exploration, Inc.; and the Pittsburgh Coal Mining Institute of America.

Provided by international coal companies, major research organizations, technology developers, and industry leaders, the information includes both general knowledge and in-depth discussion on the current challenges facing the industry, techniques for designing more efficient plants, and new cleaning and dewatering technologies. The book is a practical yet cutting-edge resource for plant designers, engineers, and other practitioners, and for university students and faculty.

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- Perspective on Coal Fines
- Beneficiation Technologies
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