

Abstract Submission – January 31, 2008

**ADVANCES IN DISPOSABLE DIATOMITE FILTER AID SYSTEMS
FOR cGMP BIOSEPARATIONS**

Session – Pretreatment in Bioseparations

AFSS Annual Meeting

Valley Forge, PA

May 2008

Tom Sulpizio and Jeff Taniguchi, Advanced Minerals Corporation

A Member of Imerys

130 Castilian Way, Santa Barbara, CA 93117

Filter aid and associated filter media are well suited to address the growing need for robust, disposable separation technology in cGMP bioseparations. These products must meet these requirements:

- Low and well characterized extractables;
- Auditable production facilities operating under full ISO or near GMP conditions for pharmaceutical raw materials or components;
- Process containment of powdered materials;
- Disposable components utilizing permanent hardware with minimal cleaning validation.

Advanced Minerals pharmaceutical filter aid products (Celpure[®] USP-NF grades and Acid Washed Celite[®] NF grades) and the companion filter media meet these requirements. A discussion of these products and an example of a disposable system will be presented.

Author Biographies

Tom Sulpizio is Vice President for Celpure and Celite Specialty Products in Advanced Minerals, the product development and pharmaceutical products subsidiary of World Minerals Inc. Mr. Sulpizio has also worked in the inorganic materials industry and the membrane separation industry for the past twenty-five years. He has been with World Minerals in various product development and management positions since 1994. Mr. Sulpizio has a B.S. degree in chemical engineering and master degrees in engineering science and business administration.

Jeff Taniguchi is the Manager of High Performance Separations for Advanced Minerals. He has global responsibility for the applications of Advanced Minerals products, particularly in pharmaceutical and biotech separations. Mr. Taniguchi has nearly thirty years of experience with World Minerals Inc. and predecessor companies in scientific and management positions in R&D, technical service and sales, and product development. He holds a B.S. degree in chemical engineering.