

SYMPOSIUM X

Frontiers of Materials Research

Authoritative Reviews for Nonspecialists

April 2 – 4, 2002

Chairs

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* Invited paper

This symposium is the Society's principal vehicle to maintain the interdisciplinary and integrative nature of its mission within the materials community with invited reviews. Leaders in various specialties represented by the topical symposia present reviews designed for materials researchers who are **NOT** specialists in the reviewed field.

SESSION X1:

Chairs: Zhenan Bao, Eugene A. Fitzgerald,
Ulrich M. Goesele and Kenneth P. Rodbell
Tuesday Afternoon, April 2, 2002
Salon 7 (Marriott)

4:30 PM *X1.1

THE ROLE OF VENTURE CAPITAL: TURNING SCIENCE INTO MONEY. William Frezza, Adams Capital Management, Yardley, PA.

The purpose of this talk is twofold. The first is to give the materials research community an unvarnished look behind the scenes of the world of venture capital. How are venture capital partnerships structured? Where does the money come from? What does the investor food chain look like from seed investment to IPO? What are the criteria by which investment decisions are made? What are VCs looking for in a start-up idea? What are they looking for in a team? What should an entrepreneur look for in a VC? What is the best way for an entrepreneur to get the attention of a venture capital firm? What role, if any, can incubators, advisors, and placement agents play in the process? What do the basic mechanics look like for an early-stage investment? What is the best way to make sure interests stay aligned between investors and entrepreneurs throughout the process? What makes corporate investors different from venture investors? What role can a committed academic researcher who does not want to leave the academy play in launching a company? Why is it critical to structure intellectual property agreements properly? When is the right time to go commercial? What common mistakes are the easiest to avoid? What does the venture capital environment look like in the post dot-com world? What did the investment community learn from the crash? What will the investment community never learn? Why does the presenter believe that the applied materials industry represents the next great opportunity in venture investing? The second purpose of this talk is simple. It is to shamelessly encourage potential entrepreneurs in the audience to contact the presenter if they are actively considering launching a company. Lets get rich together. E-mail: waf@acm.com

SESSION X2:

Chairs: Zhenan Bao, Eugene A. Fitzgerald,
Ulrich M. Goesele and Kenneth P. Rodbell
Wednesday Afternoon, April 3, 2002
Salon 7 (Marriott)

4:30 PM *X2.1

FROM MATERIALS AND DEVICES TO BUILDING AND SELLING A COMPANY. Parviz Tayebati, Nortel Networks, Wilmington, MA.

ABSTRACT NOT AVAILABLE

SESSION X3:

Chairs: Zhenan Bao, Eugene A. Fitzgerald,
Ulrich M. Goesele and Kenneth P. Rodbell
Thursday Afternoon, April 4, 2002
Salon 7 (Marriott)

4:30 PM *X3.1

MATERIALS IN THE HISTORY OF WINE. Stefan Estreicher, Texas Tech University, Lubbock, TX.

In many respects, the story of wine is the story of Western Civilization. The importance of wine is reflected by the vast array of deities that have been associated with it over the millennia. But the production of stable and quality wines that are easy to store and transport raises many technological challenges. The making and preservation of wine evolved from a mysterious art to a quasi-exact science, often born of trial-and-error. This aspect of the history of wine involves technologies and materials first discovered and improved by ancient civilizations. The road from the earliest wines fermented in clay jars to today's delicate Champagnes or luscious Sauternes has been long and bumpy indeed. In this talk, a few of the major turns

along this road will be discussed, with emphasis on materials issues. My hope is that this lecture will entice you to learn more of life through this fascinating window: the story of wine.

A networking session will immediately follow Symposium X each day. It will be held in the Grand Assembly area outside of Salon 7. Light refreshments will be provided courtesy of the 2002 Spring Meeting Chairs.