



along with many distinguished visiting professorships. He is a Fellow of MRS, The Minerals, Metals & Materials Society, the Institute of Physics London, and ASM International. For 30 years he has been at the forefront of theoretical and computational materials science, making contributions to a variety of important materials theory problems.

Among some of Srolovitz's seminal contributions is his work on the topology and kinetics of grain growth in polycrystals. Srolovitz and his collaborators were among the first to use Monte Carlo simulation techniques

to track the growth and shrinkage of grains in polycrystalline materials during recrystallization and grain growth. Through these simulations, he was able to provide a microscopic picture of these important processes. In further work in this area, especially using sufficiently large systems to capture the behavior of real polycrystalline metals, he was able to link atomic-scale processes to macroscopically observed microstructural behavior.

In his early work on surface and thin film morphology, Srolovitz showed that stresses and surface tension can lead to

the destabilization and roughening of flat surfaces and the break-up of thin films on substrates. These studies have been corroborated by experimental measurements in a wide range of materials systems and have been the basis for new technologies that exploit these instabilities for surface patterning and the formation of controlled island morphologies. Srolovitz has also worked in the areas of mechanical properties of high-temperature alloys, thin film growth, recrystallization, surface phenomena, phase separation, and energy harvesting.



David L. Morse to give plenary address on glass at 2013 MRS Fall Meeting

David L. Morse, executive vice president and chief technology officer of Corning Incorporated, will give the plenary talk on "A Day Made of Glass—Vision Becoming Reality," at the 2013 Materials Research Society Fall Meeting in Boston. His talk will be based on an Internet video series presented by Corning on the future of glass (see www.corning.com/adaymadeofglass). Morse will discuss advanced glass materials and applications from high-performance liquid-crystal display glass to super tough, thin, lightweight substrates to very high

bandwidth and very low loss optical fibers and connectors for wire line and wireless applications. These developments, including novel materials modeling to the latest in optical fiber design, and their technical trajectories will be discussed. The presentation will be given on Monday, Dec. 2, at 6:30 p.m. in the Grand Ballroom of the Sheraton Hotel.

Morse joined Corning in 1976 as a composition scientist in glass research after receiving his PhD degree at the Massachusetts Institute of Technology. He is now a member of the management

committee of the corporation, is an invited participant to meetings of Corning's board of directors, is a member of the board of directors of Dow Corning Corporation, and is a member of the board of trustees of the Corning Incorporated Foundation.

Over the course of his career at Corning, he has had many senior leadership roles in materials research, product development, and technology leadership in several business divisions. Prior to his current position, Morse was senior vice president, Science & Technology and director, Corporate Research. He has been active in the development of Corning's glass strategy.

Morse is a member of the National Academy of Engineering, chair of the McDonnell International Scholars External Advisory Committee at Washington University in St. Louis, the Board of Industry Advisors of International Materials Institute for New Functionality in Glass, and the National Science Foundation National Board on Chemical Sciences and Technology.



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Hynes Convention Center • Level 2

Tuesday, December 3 • 11:00 am – 5:30 pm

Wednesday, December 4 • 11:00 am – 6:00 pm

Thursday, December 5 • 10:00 am – 1:30 pm

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