Spring 2025 Joint Colloquium
Materials Department & Materials Research Laboratory

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Corning, NY

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11:00 am | ESB 1001

One view on the future of glass, glass-ceramics, and ceramic materials opportunities

Glass, glass-ceramics, and ceramics were historically materials of last resort. In the last half century these inorganic material science-based innovations have moved up in priority from materials of last resort to materials of choice for many challenging applications. The author will introduce Corning and then share insights and examples on potential future opportunities for these materials across a wide variety of applications. He will also share some lessons from his experience developing, scaling and commercializing materials-based innovations.

Bio: Dr. Willard A. Cutler is division vice president and commercial technology director at Corning Incorporated in Corning, New York. Cutler holds a Ph.D. in materials from the University of California, Santa Barbara and a BS in materials science & engineering from the University of Utah. Cutler has worked for Corning for ~35 years in various research, product development, commercial, and leadership roles in Europe and the U.S. He has successfully delivered a number of successful new products into the marketplace. He is currently responsible for customer-facing technology for Corning's $1.7B environmental business which provides ceramics-based substrates and filters to remove pollution from vehicles, worldwide. In addition, he leads Corning's Environmental Futures effort to create new businesses in the adjacent opportunities of clean air (carbon capture, cabin air, etc.) and clean energy (batteries, green hydrogen, etc.).

Cutler has been awarded 22 patents and has published several scientific papers and edited a book. He served for 8 years on the board of Cormetech Incorporated. He has significant experience at the intersection of commercial and technology with experience in product design and particular expertise in pollution control and in highly porous ceramic materials and low-expansion ceramic materials. He is a Fellow of the American Ceramic Society.

Hosted by Frank Zok