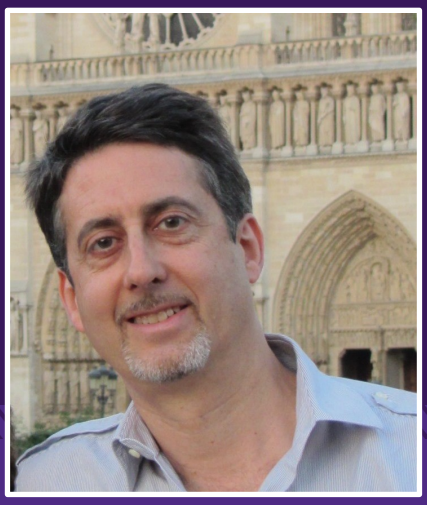
THE MATERIALS SCIENCE AND ENGINEERING DEPARTMENT COLLOQUIUM SERIES PRESENTS:

Joe Schlenoff

Robert O. Lawton Distinguished Professor of Chemistry and Biochemistry

Leo Mandelkern Professor of Polymer Science
Florida State University



Saloplastics: Processing Polyelectrolyte Complexes with Salt Water

Polyelectrolyte complexes spontaneously form when polyelectrolytes with opposite charge are mixed. While they are unprocessible (brittle, and no thermal softening) when dry they are quite tractable when hydrated. The addition of salt and water to complexes further softens them ("saloplasticity"). This talk will address the fundamental aspects of polyelectrolyte complex formation and will also present quantitative relationships between salt water "doping" and their properties.

Joe Schlenoff is currently Robert O. Lawton Distinguished Professor of Chemistry and Biochemistry, Leo Mandelkern Professor of Polymer Science at Florida State University. He is also a

Senior Editor with Langmuir an ACS journal. He received a BSc (Hon) from the University of Bristol in 1980, worked for Polaroid Corp in Cambridge, MA, for a year then completed a PhD (Chemistry) at UMass Amherst, (1987). After a postdoc stay in the Polymer Science department at UMass he joined FSU in 1988. His research interests are centered on polyelectrolytes and surface modification.

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