DR. PAUL S. RUSSO

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LOUISIANA STATE UNIVERSITY
BATON ROUGE, LOUISIANA

Will present a seminar on

“DISEASE-INSPIRED MATERIALS SCIENCE:
FROM BIOPOLYMERS TO BP”

The usual science and technology approach to disease is “We must cure it!” But molecular devices and processes that bring an end to life are powerful things to be admired and exploited. The talk will cover a synthetic system built as an homage to influenza virus. The special properties of synthetic polypeptides — chirality, helix-coil transitions, chemical versatility — are combined with the ease of handling found in colloids. The results point to new materials science opportunities. A second system is built around a fungal protein with high surface activity and spectacular ability to control surface structure. The phenomenology of this system is being explored using video microscopy, as we work to discover what materials science opportunities it affords. Related outreach activities will round out the discussion, but perhaps unrelated outreach activities are more useful.

THURSDAY, OCTOBER 17, 2013
COOKIES AND COFFEE -- 1:45 P.M.
SEMINAR -- 2:00 P.M.
SARKEYS ENERGY CENTER, ROOM M-204

THIS IS A REQUIRED SEMINAR FOR CHE 5971

Accommodations on the basis of disability are available by contacting the office before the event.