

**The Department of Chemical and Biomolecular Engineering
at The Johns Hopkins University**

Presents

***The 2008
John C. and Florence W. Holtz Lecture
Wednesday, March 5, 2008***

3:00 P.M. Seminar.....Mergenthaler Hall Room 111

Refreshments to follow.....Maryland Hall Room 109

Carol K. Hall

Department of Chemical and Biomolecular Engineering
North Carolina State University

***Thermodynamic and Kinetic Origins of Alzheimer's and Related
Diseases: a Chemical Engineer's Perspective***

The pathological hallmark of more than twenty neurodegenerative diseases, like Alzheimer's, Parkinson's and the prion diseases, is the presence within the brain of plaques containing ordered protein aggregates called fibrils. It is not yet known why these structures form in some individuals and not in others, or whether the plaques are toxic or Nature's way of sequestering toxic species. Dr. Hall will describe current thinking on the scientific underpinnings for this phenomenon, and her computational efforts to contribute to our knowledge of how and why proteins assemble into fibrils.

The Holtz Lecture will be held in Mergenthaler Hall Rm. 111 at 3:00P.M

Refreshments to follow in Maryland Hall Rm. 109

For additional information contact the Seminar Chair German Drazer at drazer@jhu.edu