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Bruce Herbert*, Department of Geology and Geophysics, Texas A&M University, College Station, TX. *Complex environmental and earth systems.*

The nature of complex geoscience systems creates a number of challenges to the development of reasonable conceptual models and the development of robust solutions. Professor Herbert works on developing creative pedagogical tools and instructional materials that respond to these challenges. This includes the design and development of Web-based learning. He will tell us about the tools he and his colleagues have developed and how they can be used to help students understand and model complex systems. (Received July 07, 2005)