MAA MD-DC-VA Section, Fall 2011 Meeting, Nov. 4-5
Christopher Newport University

Section NExT Sessions – Saturday, Nov. 5, Forbes Hall, room 3014

Time	Session
8:30 – 9:15	**Adventures with the Moore Method at the Board and in a Desk** **Presenter: Lee May, Salisbury University** Abstract: In this talk, I shall describe how I first experienced the Moore Method as a student and why I decided to use it as a teacher. I shall mention some of the pleasures that I have experienced with the method, and describe some of the pits into which I have fallen. Finally, I shall present some of the lessons that I have learned about implementing the method. In keeping with the spirit of Dr. Moore and the method, I encourage the audience to ask questions, make comments, and otherwise participate in the presentation. Organizer: Randall Cone
11:10-12:00	**Towards a science of mathematical learning** **Presenter: Frank Quinn, Virginia Tech** Abstract: There is quite a gap between teaching and learning. The hindsight explanation is that traditional classrooms are a compromise between individual student needs and resource constraints that require handling students in bulk. But focusing on bulk outcomes gives a rather crude view of individual needs, and focusing on bulk classroom methods leads to even cruder ways to address these needs. We need a much more fine-grained understanding of individual learning. Especially if we want to use technology to individualize education: simply mechanizing classroom methods won't go far. I describe clues about learning gleaned from four sources: one-on-one diagnostic work with students; development of computer-based tests and course materials; cognitive neuroscience and psychology; and modern professional practice. Organizer: Randall Cone

About our Presenters:

Lee May, a disciple of R. L. Moore and co-author of *The Moore Method: A Pathway to Learner-Center Instruction*, holds a bachelor's degree from Wake Forest University and a Ph. D. from Emory University, both in mathematics. He is Professor of Mathematics at Salisbury University in Salisbury, Maryland, where he has been since 1972. He has received the Outstanding College Teacher of Mathematics award from the Maryland Council of Teachers of Mathematics, and the John M. Smith Award for Distinguished College or University Teaching from the Maryland-District of Columbia -Virginia Section of the MAA. His publications include "Localizing the Spectrum," "The Local Resolvent Set of a Locally Lipschitzian Transformation Is Open," "Are Seven-Game Baseball Playoff Series Fairer?", "Is the Integral Test Wrong?", "Real-Linear (Including Semilinear) Transformations," and "M&Ms, 'The Method', and Other

Ideas about Elementary Statistics." His most notorious current academic accomplishment is the creation in 2005 of the course, "Liberal-Arts Mathematics: Statistics through Baseball," at Salisbury University.

Frank Quinn received his degree from Princeton in 1970, and has been a professor at Virginia Tech for more than thirty years. He has made substantial contributions to geometric topology and algebraic K-theory, and recently has been concerned with use of technology and modern methodology in education.