



Cleveland Astronomical Society
Thursday, October 6, 2005 Meeting Announcement

6:15-7:00 pm.: Snacks and soft drinks; 7:00 pm.: Buffet dinner

**CanalWay Center, Cleveland Metroparks, Off E. 49th Street,
Cuyahoga Heights**

Speaker: Dr. George W. Collins II

Case-Western Reserve University

"Einstein: Special Relativity a Century Later"

Dr. Collins graciously has agreed to again open our meeting year. His presentation will showcase the ideas of Einstein, and the talk will begin with an explanation of why we are celebrating the Centennial of Einstein in 2005. Since Einstein was famous for his "thought experiments," Dr. Collins will conduct a couple of them with the CAS audience. He will demonstrate that Special Relativity is what one can expect given the constancy of the speed of light. With just some high school algebra and geometry, we'll discover that time, length, and energy depend on the relative motion of one observer with respect to another. Then we will see that the relative nature of time and the constancy of the speed of light leads to the famous equation $E = mc^2$.