



**The Cleveland Astronomical Society**  
**Meeting Announcement for Thursday, December 5, 2002**  
**The end of the 70<sup>th</sup> Year for this Association**

**6:15-6:55 pm: snacks and soft drinks; 6:55 pm: buffet dinner**  
**7:45 pm Announcements and Talk**

**CanalWay Center; Cleveland MetroParks, Off E. 49<sup>th</sup> St., Cuyahoga Heights**

**Speaker: Dr. Glenn Starkman**  
**Physics Department, Case Western Reserve University**

**“The Topology of the Universe”**

**Astronomers long have sought to determine the geometry of the universe...Is it flat, positively curved like a sphere, or is it negatively curved like a potato chip. Often astronomers mistakenly have assumed that the geometry determines the topology, that is, how space is connected. We are now in the process of measuring the universe’s topology or finding that any topology is beyond the horizon (and probably will remain so.). Come hear more about this fascinating topic and ask questions of Dr. Starkman.**