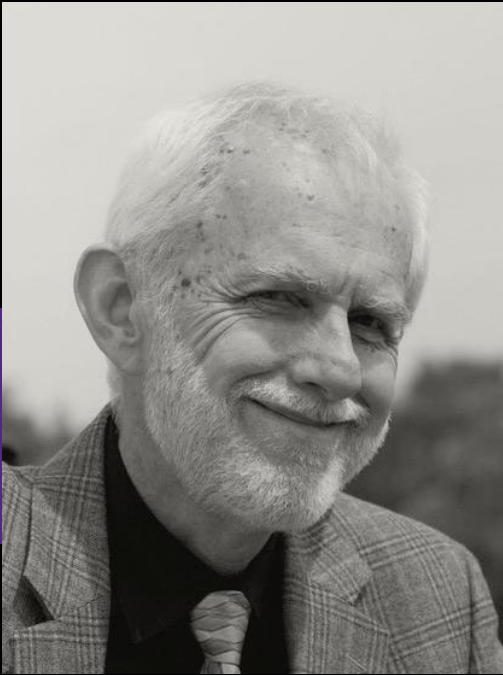


# BLACK HOLES, WAVES OF GRAVITY, AND OTHER WARPED IDEAS OF DR. EINSTEIN



CLIFFORD WILL  
UNIVERSITY OF FLORIDA

March 8 at 4:30 pm  
103 Cardwell Hall or Zoom  
*email office@phys.ksu.edu for link*  
*Refreshments at 4 pm in 119 Cardwell*



Einstein's theories of relativity have had a major impact on everything from popular culture to everyday life to basic science. Songs, plays and movies proclaim Einstein as the symbol of genius, while users of GPS unknowingly take account of Einstein's relativistic warpage of time. Two of the crazier ideas that come from Einstein's theories are Gravitational Waves and the Black Hole. Today, international teams of scientists are on a quest to verify these ideas. Using large-scale detectors on the ground they have detected Einstein's gravity waves and are using them to reveal the hidden secrets of black holes. Astronomers are tracking stars revolving around the massive black hole at our own Galactic Center and are producing images of the shadows of black holes. We are on the verge of crossing a new frontier: testing Einstein's ideas using the universe as a whole.