

RUCKMAN PUBLIC LECTURE 2023

# THE **STONEHENGE** **OBSERVATORY**

**Dr. Dan Reichart**  
UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL



**FRIDAY**  
**OCT 6**  
**7:30 PM**

Using a three-dimensional computer recreation of Stonehenge, we will explore the site's astronomical properties, primarily by inserting ourselves into the simulation and watching solar and lunar alignments in real time, as they occurred thousands of years ago. The program recreates all three major phases of Stonehenge's construction based on archaeological records, and the sun and moon simulations take into account atmospheric refraction, the gradually changing tilt of Earth's axis, and the sun's gravitational tug on the moon to ensure the utmost in accuracy.



**NEBRASKA UNION AUDITORIUM**

This free, public talk is open to general audiences and is co-sponsored by the Department of Physics and Astronomy and the Center for Science, Mathematics and Computer Education.

