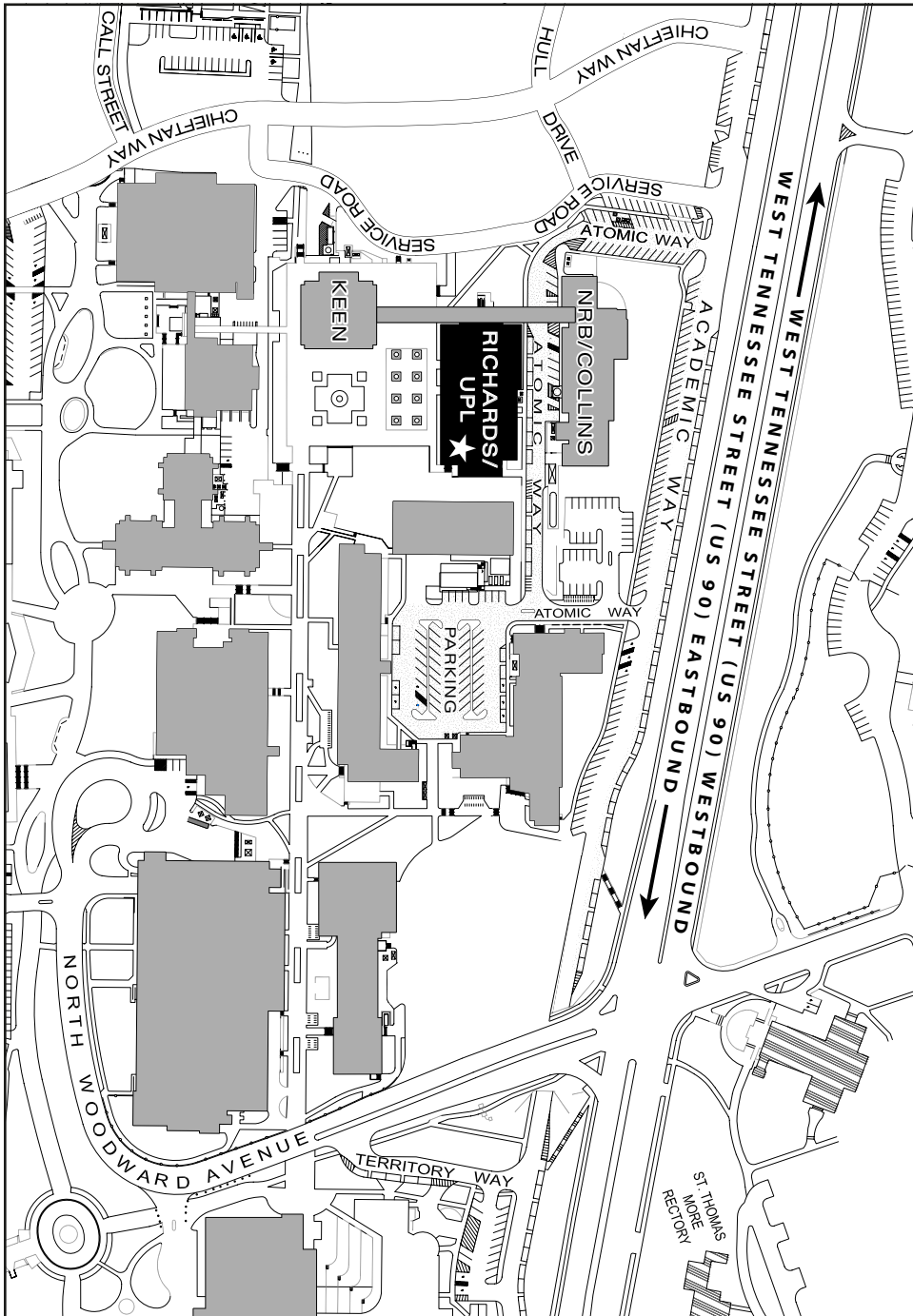


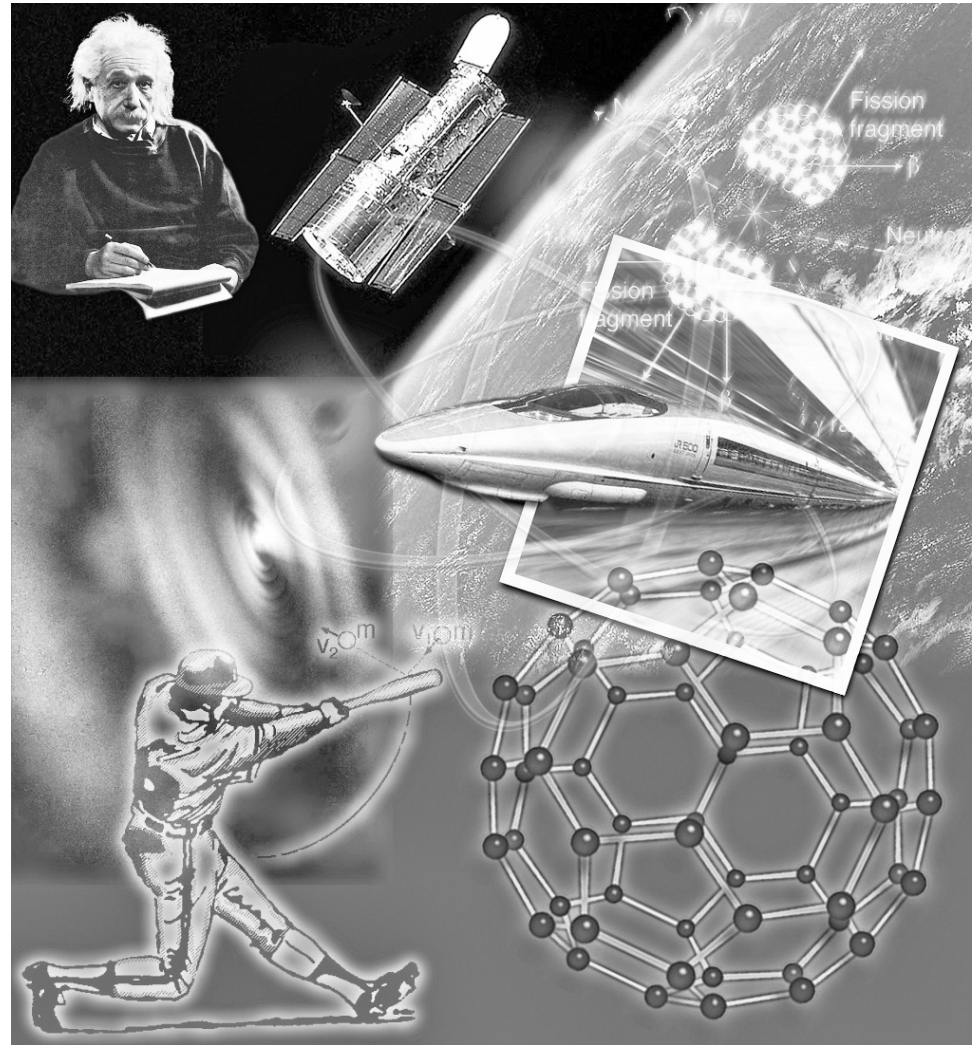
# MAP



SATURDAY MORNING

# PHYSICS

FLORIDA STATE UNIVERSITY



EXPLORE THE FRONTIERS OF MODERN SCIENCE

9:30 AM SATURDAYS FROM OCTOBER 5 TO NOVEMBER 16

# what is saturday morning physics?

Saturday Morning Physics is a program that introduces students to current research topics in physical science. Our goal is to educate, entertain and inspire. The program, funded by Florida State University, is organized and run by the FSU Department of Physics.

# who may participate?

Although targeted primarily at middle and high-school students, the participation of others is welcome. We particularly encourage parents and teachers to attend. The presentations are designed to be enjoyed by anyone.

# is there a cost?

Saturday Morning Physics is provided as a free community service; there is no cost to participants.

# where is it held?

Except during the week of the National High Magnetic Field Laboratory (NHMFL), each of the sessions will be held in Room 101 (the large lecture hall) in the Richards Undergraduate Physics Laboratory. For more details, see the map on the back of this brochure, or the web site below.

For the event at the MagLab, participants must go to the Magnet Lab at 1800 E. Paul Dirac Drive Tallahassee, FL 32310. **ALL participants are required to have closed-toe shoes.** Due to space limitations, the Magnet Lab session will be split in two. Attendees arriving before 9:30 am will join the first session, while others will join a 10:30 am session. Magnet Lab tours will also be organized.

# want more information?

Professor Kevin Huffenberger  
Chair, Saturday Morning Physics Committee  
Physics Department  
Florida State University, Tallahassee, FL 32306-4350  
phone: 850.644.2868  
E-mail: [huffenbe@physics.fsu.edu](mailto:huffenbe@physics.fsu.edu)  
Web address: [www.physics.fsu.edu/saturday-morning-physics](http://www.physics.fsu.edu/saturday-morning-physics)

# saturday morning physics schedule 2019

october 5–november 16

All presentations (except at the Maglab) will begin at 9:30 am and end between 11:00 am and 11:15 am. There will be a 20-minute intermission with free pastries and juice. There are nearby road closures on Antarctic Way and Academic Way, so you may plan ahead.

**date: speakers: title and subject:**

10/5 Professors Kevin Huffenberger and David Collins **Astronomy in a Universe Filled with Light and Dark Matter**  
Explore the Universe from sub-atomic particles to black holes to clusters of galaxies, testing the extremes of natural laws. Includes free FSU planetarium show.

10/12 Professors Christianne Beekman, Sean Dobbs and Hanwei Gao **Physics of Waves**  
Catch the wave with these spectacular demonstrations of the physics of waves.

10/19 Professors Vladimir Dobrosavljevic and Hitesh Changlani **Physics On the Web/Quantum Information**  
The web is a fantastic place to explore physics; find out why and where. See how quantum computing uses the fundamental laws of sub-atomic nature to process information.

10/26 Professors Rachel Yohay and Kohsaku Tobioka **Particle Physics: What Matter Is and How We Know**  
Learn of the discoveries that informed our understanding of the fundamental forces of nature, and what the future may hold!

11/2 Professors Jeremiah Murphy and Sergio Almaraz-Calderon **Forging Elements in Exploding Stars & in the Lab**  
Discover how exploding stars made us all, and how we study nuclear processes here on Earth.

11/9 Professor Laura Greene **The National Maglab & the Dark Energy of Quantum Materials (at the National High Magnetic Field Laboratory)**  
Learn about magnet research and future applications. **Closed-toe shoes required.** Two sessions: 9:30 am and 10:30 am. See "Where is it held?" on opposite page for more information.

11/16 Professors Christianne Beekman, Sean Dobbs and Hanwei Gao **Physics of Sports**  
See demonstrations of physics principles applied to everyday sports.