

L. R. INGERSOLL PHYSICS MUSEUM



Sir Isaac Newton

The L.R. Ingersoll Museum is a free, public, hands-on, physics museum located on the University of Wisconsin - Madison campus in Chamberlin Hall.

Our exhibits focus on experiments demonstrating basic physical concepts ranging from mechanics to modern physics. Along the corridors we have historical instruments and photos of the Nobel Prize Winners in Physics from 1901- 1993 on display.

The Physics Museum was started by Professors Snow and Ingersoll in 1917, one of the first such museums in this country. Over the years many exhibits designed by members of the Department of Physics faculty, and are built in the department shops, have been progressively added.

The museum is open to visitors from
8:00 A.M. until 4:00 P.M.
Monday through Friday.

Please send your questions, comments, or suggestions to either Steve Narf at srnarf@wisc.edu or to Ugo Camerini at camerini@wisc.edu.

If you wish to schedule a guided tour of the museum, please contact Steve Narf at (608) 262-3898 or srnarf@wisc.edu.

Visit our webpage
<http://www.physics.wisc.edu/museum>



L. R. INGERSOLL PHYSICS MUSEUM



CHABMERLIN HALL
1150 UNIVERSITY AVENUE
MADISON, WISCONSIN 53706
<http://www.physics.wisc.edu/museum>

COME IN AND PLAY!

Mechanics



Student in the Spinning Platform.

In the mechanics section, you can observe the conservation of momentum and energy by playing with the **Newton's Cradle**. You can feel the conservation of angular momentum by taking a ride on the **Spinning Platform**.

There is also a small model of **Foucault's Pendulum**, which is an experiment to demonstrate the rotation of the Earth. Even Einstein's general theory of relativity, which describes gravity and black holes, can be illustrated by the analogy of the **Gravity Pit**.



Students observe coins falling in the Gravity Pit

Computer-Based Physics

In our computers you can see graphic displays of consonant sounds on the **Lissajous Curves Demonstration** and change their parameters. You can play with different programs of the **Chaos Demonstrations**, and see the frequency of your voice in **Your Voice**.



Students sing in the Your Voice Demonstration



Students play with electricity and magnetism

Electricity & Magnetism

You can generate electricity by rotating the wheel of the **Dynamo** and the **AC and DC Generator**. Discover different connections you can make in the **Circuit Puzzle**. Feel the magnetism force of the **Induced Current Coil**.

Light & Optics



Students observe their images in the mirrors

Observe the difference in your image in a **Plane, Convex, and Concave Mirror**. Try to discover the secret of the **Hologram** and the **Mystery Window**. Observe the difference between mixing colored lights and mixing colored pigments in the **Additive Color Mixing** and the **Subtractive Color Mixing Demonstrations**. Observe



Student manipulates the Plasma Tube with magnets

the spectra of different gases and of incandescent white light on the **Light and Atomic Spectra**.

Modern Physics

The application of a magnetic field induces a kaleidoscopic array of colors in the **Plasma Tube**.