Welcome to the ITL Lab

◆ You are invited to explore one of the most innovative learning environments in the world.

◆ The unique ITL Laboratory is a shared learning environment for six departments of the College of Engineering and Applied Science at CU-Boulder. Here, hands-on activities prepare students for the working world of engineering by emphasizing open-ended problem solving, interdisciplinary teamwork and creative discovery.

◆ Building-as-a-Learning-Tool — The ITL Laboratory is a “living laboratory” with exposed and visible building systems.

To learn more, look for the 11 interpretive signs.

◆ Explore the many interactive exhibits and kinetic sculptures.

◆ As you explore, please do not disrupt the engineering students you see throughout the building.

ITL Credo
I hear... and I forget.
I see... and I remember.
I do... and I understand.

— Confucius c. 500 BC

Self-Guided Tours
Open Monday-Friday, 8:30AM-4:30PM
Groups of 10 or more must call to schedule a visit.
Please call 303.492.7222 to confirm open hours.

Driving Directions from Denver
◆ Take Highway 36 to Boulder
◆ Stay on 36 as it curves north and becomes 28th Street
◆ Turn left (west) onto Colorado Avenue (first stoplight)
◆ Turn left (south) onto Regent Drive
◆ Park in meter parking lots or along Regent Drive ($1 per hour)

Can you find…?
◆ A window into the elevator shaft?
◆ A room of pipes painted different colors?
◆ A shimmery sculpture that moves with the wind?
◆ A clear pipe that carries storm water from the roof?
◆ A window between the men’s and women’s restrooms?

Integrated Teaching and Learning Program
Drescher Undergraduate Engineering
1045 Regent Drive, 522 UCB
Boulder CO 80309-0522 USA
Telephone: 303.492.7222, Fax: 303.492.8825

Visit the ITL website: http://itll.colorado.edu
Director of K-12 Engineering: Jackie Sullivan, 303.492.8303
To schedule a tour: Janet Yowell, 303.492.5230
Explore these Interactive Exhibits

- Ball Machine (Pythagorean Fantasy)
- Square Wheels
- Tectonic Basin
- Taylor Cells
- Conduction
- Light Bulbs
- Fountain of Instability

Learn from these Kinetic Sculptures

- Fluid Flow
- Stress Analyzer Bench
- Catenary Arch
- Pendulum Table
- Chaotic Pendulum
- Spring Box

Find these Signs

- It Takes More than Concrete
- Are You Standing on Solid Ground?
- Why is that Duct So Large?
- Measuring the Load
- A Slice of Wall
- Layers of Air
- No Secrets Here

Find this Sign

- One Way to Get Vertical

Look for...

- In the lobby, note the ITL credo, the ITL vision statement, and the major contributors recognition wall.
- A window lets you look inside the elevator shaft.
- The Active Learning Center is a “smartroom” classroom designed for teaching in an active or cooperative learning approach—not traditional lecturing.
- The large, open and visible Lab Plaza provides students with high-tech data acquisition capabilities at 30 LabStations.
- Student fluid flow photography artwork in a break-out room to the side of the large lab plaza.
- Vibrating wire strain gauges on the large yellow truss measure the load on the steel structure.
- Restrooms are located at the far south end.

Find these Signs

- A Ramp to the Information Superhighway
- One of These is a Dummy
- All Windows are Not Alike

Look for...

- An array of color-coded building systems fills the Mechanical Equipment Room.
- The large, open and visible Lab Plaza provides students with high-tech data acquisition capabilities at 32 LabStations.
- Student fluid flow photography artwork in a break-out room to the side of the large lab plaza.
- In the Manufacturing Center, students create what they dream using conventional and computer-controlled CAD equipment.
- Along the west wall, students in the MediaShack, ProtoShack and Test-MatShack, prepare reports, presentations and prototypes, and test materials.
- Peek into the window of the electrical room to see the equipment that controls all the electrical power that enters the building.
- Restrooms are located at the far south end.

What to see... What to do...

K-12 Engineering Activities

- Design Expo (twice per year, April and December) - the public is welcome to attend!
- Summer Success Institute for under-represented high school students
- Summer K-12 Teacher Professional Development Workshops

Questions?
Contact K-12 Engineering Coordinator, Janet Yowell at 303-492-5230 or janet.yowell@colorado.edu.