

# International Institute for Sustainable Laboratories

## About I<sup>2</sup>SL



The International Institute for Sustainable Laboratories (I<sup>2</sup>SL) is a 501(c)(3) nonprofit organization founded in 2004, and dedicated to the development of sustainable laboratories and other high-technology facilities worldwide. I<sup>2</sup>SL is devoted to the principles of sustainable laboratories—from design to engineering to practice. Through worldwide partnerships and the exchange of technical information, I<sup>2</sup>SL helps produce high-technology facilities that address the rapid pace of science, medicine, research, and development in an ever-changing and dynamic world.

I<sup>2</sup>SL's mission is to:

- Promote resource-effective and environmentally responsible facilities for science education, testing, medicine, and research and development through advanced and sustainable design, engineering, and operational practices.
- Encourage the development of technologically advanced, energy-efficient, and environmentally responsive laboratories throughout the world.
- Facilitate a sustainable “whole-building” approach in designing, engineering, constructing, and operating laboratories and other advanced facilities.

I<sup>2</sup>SL facilitates a network of technical capabilities to address global needs in the following areas, while incorporating a whole-building approach to sustainable, high-performance, and low-energy laboratories. These capabilities include:

- Providing infrastructure assessments
- Offering technical assistance
- Sharing new technologies through customized training and workshops

### I<sup>2</sup>SL'S BOARD OF DIRECTORS

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- Assisting with project charettes
- Developing case studies and best practices

In 2006, I<sup>2</sup>SL was competitively selected to become the official nonprofit co-sponsor of the Labs21 Annual Conference and Workshops. Through this cosponsorship, I<sup>2</sup>SL has been able to expand the reach of Labs21 internationally and to develop more tools, training opportunities, and robust conferences to help green the world's laboratories.

Read on to learn more about how I<sup>2</sup>SL is working to meet its goals.

Contact I<sup>2</sup>SL: [www.i2sl.org](http://www.i2sl.org) • [labs21@i2sl.org](mailto:labs21@i2sl.org) • 703-841-5484

*I<sup>2</sup>SL is the official cosponsor for the Laboratories for the 21st Century (Labs21<sup>®</sup>) Annual Conferences and Workshops.*

# About I<sup>2</sup>SL

## I<sup>2</sup>SL's Major Activities

### Labs21 Annual Conference

I<sup>2</sup>SL is the official nonprofit cosponsor of the Labs21 Annual Conference, the largest gathering of sustainable laboratory professionals in the U.S. and internationally. The conference showcases the latest advancements in sustainable laboratory design and operation and provides a forum for the exchange of technical information. Each year, dozens of sessions at the conference focus on a wide range of technical laboratory sustainability topics. A Technology and Services Fair gives manufacturers and service providers that meet the needs of high-technology facilities the opportunity to introduce their technologies, systems, and services to the Labs21

Annual Conference audience. I<sup>2</sup>SL also invites attendees to participate in tours of local buildings that exemplify the Labs21 Approach. Each year, in partnership with

*R&D Magazine*, I<sup>2</sup>SL hands out *Go Beyond Awards* for projects, organizations, and individuals that have gone above and beyond the status quo to minimize the environmental impacts of laboratory and other high-tech facilities (including, but not limited to, cleanrooms, healthcare facilities, data centers, vivaria, etc.). For more information on the Labs21 Annual Conference, visit [www.i2sl.org/labs21/conference/index.html](http://www.i2sl.org/labs21/conference/index.html).

### Training and Education

Each year, I<sup>2</sup>SL cosponsors workshops on a variety of sustainable laboratory topics. Taught by internationally recognized experts, the courses introduce sustainable design strategies that optimize the energy performance of new and existing laboratories. I<sup>2</sup>SL currently offers the following workshops:



- Labs21 Introductory Course: High-Performance, Low-Energy Design
  - Half-Day Course
  - Full-Day Course
- Labs21 Workshop: Optimizing Laboratory Ventilation Rates
- Labs21 Workshop: Low-Pressure-Drop HVAC Design
- Labs21 Workshop: Laboratory Operations and Maintenance
- Labs21 Workshop: Environmental Performance Criteria (EPC)
- Labs21 Workshop: Occupants Matter: Sustainable Design Meets Researchers
- Data Centers Energy Efficiency Best Practices and Technologies Workshop
- Sustainable Design in K-14 Learning Laboratories
- Laboratory Commissioning Workshop
- Energy Efficient Laboratory Ventilation Design Practices and Technologies
- An Introductory Workshop to Building Information Modeling (BIM)
- Lighting Control Workshop: Effective, Efficient, and Sustainable Light Control Strategies for Laboratory and Healthcare Facilities.

Throughout the year, I<sup>2</sup>SL holds workshops at a variety of locations in the United States and Canada, and on the day prior to each Labs21 Annual Conference. I<sup>2</sup>SL also offers monthly webinars as part of their High-Tech Talks Webinar series. For more information on workshops, including how to bring a training event to your area or country, visit [www.i2sl.org/training/index.html](http://www.i2sl.org/training/index.html).

### Global Community

I<sup>2</sup>SL's Global Community links laboratory owners and operators with manufacturers, products, and firms



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offering sustainable solutions for laboratories throughout the world. I<sup>2</sup>SL's Global Community is a one-stop-shop for encouraging the creation of sustainable laboratories. Learn more about the Global Community, see who's involved, or register your organization to participate by visiting <[www.i2sl.org/globalcommunity/index.html](http://www.i2sl.org/globalcommunity/index.html)>.

## Partnerships

I<sup>2</sup>SL values its partnerships with organizations that have like-minded goals. Several organizations from around the world have partnered with I<sup>2</sup>SL to help improve the efficiency of high-technology facilities. A full list of current partnerships is available online at <[www.i2sl.org/partnerships/index.html](http://www.i2sl.org/partnerships/index.html)>.

## I<sup>2</sup>SL Newsletter

This monthly email publication serves to promote the goals of Labs21 and to further I<sup>2</sup>SL's mission to promote and encourage information exchange and sharing of resources in order to help create sustainable laboratories and high-technology facilities. Recent issues have featured conference updates, training schedules, spotlights on outstanding people and companies throughout the industry, news and upcoming events, and an interactive question-and-answer section. View past issues and sign up to receive the next issue at <[www.i2sl.org/resources/newsletter.html](http://www.i2sl.org/resources/newsletter.html)>.



An issue of I<sup>2</sup>SL's newsletter, *Sustainable Laboratory Times*

## International Sustainable Laboratory Student Design Competition

Inspired by the success of the Laboratories for the 21st Century (Labs21) Student Design Competition (2003-2004) I<sup>2</sup>SL is planning the International Sustainable Laboratory Student Design Competition in partnership with the Joint Institute for Caribbean Marine Studies (JICMS) and in collaboration with the Association of Collegiate Schools of Architecture (ACSA). This competition will enable architecture and engineering students from around the world to provide new and innovative thinking for the creation of energy-efficient and environmentally-sustainable laboratories. Learn more by visiting the International Sustainable Laboratory Student Design Competition Web page on the I<sup>2</sup>SL website at: <[www.i2sl.org/competition/index.html](http://www.i2sl.org/competition/index.html)>.

## E-Library

I<sup>2</sup>SL's E-Library is a portal of information on new technologies, case studies, lessons learned, and other valuable resources for architects, engineers, builders, owners, and operators of laboratories and other high-technology facilities. Several articles based on presentations given at past Labs21 Annual Conferences are among the available articles in the E-Library, and I<sup>2</sup>SL is continually adding new resources! To browse the E-library, visit <[www.i2sl.org/elibrary/index.html](http://www.i2sl.org/elibrary/index.html)>.



## Contact Us

For more information on any of I<sup>2</sup>SL's efforts, or to get involved, contact I<sup>2</sup>SL's message line at 703-841-5484 or email <[labs21@i2sl.org](mailto:labs21@i2sl.org)>.

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