



## Laboratories for the 21<sup>st</sup> Century Annual Conference History (1999–2009)

The Laboratories for the 21<sup>st</sup> Century (Labs21<sup>®</sup>) Annual Conference is sponsored by the U.S. Environmental Protection Agency (EPA), the U.S. Department of Energy (DOE), and the International Institute for Sustainable Laboratories (I<sup>2</sup>SL). The event is the largest gathering of sustainable laboratory professionals in the nation. Each year, the event highlights recent advancements in laboratory efficiency and performance, providing the laboratory and high-performance facility community with a unique forum for information exchange and education.

### Conference Attendance

The Labs21 Annual Conference draws laboratory owners, managers, architects, designers, and builders, as well as manufacturers of sustainable laboratory technologies. Organizations include a range of federal agencies, public utility and service companies, universities, and private institutions.

Conference Year	Conference Attendance
2010	700*
2009	607
2008	758
2007	560
2006	555
2005	545
2004	452
2003	484
2002	410
2001	358
2000	218
1999	111

\*Anticipated attendance

### Conference Agenda

The Labs21 Annual Conference consists of the following types of presentations:

- **Technical Sessions**—30-minute presentations covering a wide variety of topics including, but not limited to, sustainable architecture and engineered systems;

energy supply, renewable technologies, and reliability; financing and economics; laboratory mechanical, electrical, and plumbing systems; laboratory equipment, supplies, and furniture; operations and maintenance; and specialty laboratories and other high-technology facilities.

- **Poster Session**—A unique forum showcasing some of the world’s most innovative designs and how they embrace the Labs21 Approach to sustainable laboratories.
- **Symposia**—Sessions that provide attendees with a more in-depth look at topics pertinent to the laboratory and high-tech facility community. Past symposia have focused on metering and benchmarking; operations and maintenance; international laboratory efforts and initiatives; construction; and carbon neutrality.
- **Morning Roundtable Sessions**—Informal open discussions for attendees to discuss new trends, issues, and other emerging topics for laboratory design, engineering, and operation.
- **Roll Up Your Sleeves Roundtable Sessions**—An opportunity for attendees to informally present their planned or ongoing projects and to gain insights from other Labs21 attendees.

### **Keynote Speakers**

Each year, Labs21 invites a prominent, forward-thinking industry or academic leader to address the conference attendees during the plenary sessions. Past keynote speakers include:

- **Dr. John C. Lechleiter**, Chairman, President, and CEO of Eli Lilly and Company
- **Dr. Marcia McNutt**, President and CEO of the Monterey Bay Aquarium Research Institute
- **Dr. Chris Field**, Director of the Department of Global Ecology at Stanford University
- **John Knott**, President and CEO of the Noisette Company, a development company for the base realignment and closure of the North Charleston Naval Base, South Carolina
- **Dr. John Kelly**, Vice President for Public Service and Agriculture at Clemson University
- **Juan Enriquez**, Founder, Chairman, and CEO of Biotechonomy
- **Kevin Hydes**, Chair of the U.S. Green Building Council and President and CEO of Keen Engineering

- **Dr. Dan Arvizu**, Director of DOE’s National Renewable Energy Laboratory
- **Douglas S. Kelbaugh**, Fellow of AIA, Dean and Professor of Architecture and Urban Planning at the University of Michigan
- **William McDonough**, Founding Principal of William McDonough + Partners, Architecture and Community Design
- **Peter Garforth**, Global Energy Manager, Owens Corning

### **Technology and Services Fair**

Labs21 hosts a Technology and Services Fair in conjunction with its annual conference. This venue showcases the latest in forward-thinking laboratory technologies and designs from the industry’s leading manufacturers and service providers. The event has been co-sponsored by I<sup>2</sup>SL, in partnership with the Scientific Equipment and Furniture Association, since 2006.

<b>Conference Year</b>	<b>Number of Exhibiting Organizations</b>
2009	69
2008	65
2007	60
2006	52
2005	40
2004	28
2003	27
2002	28

Labs21 Technology and Services Fair displays include products such as fume hoods, furniture and casework, water purification systems, and HVAC equipment. Services include energy efficiency consultations, commissioning, and security analyses.

### **Tour Sites**

Labs21 holds its annual conference in a different region of the country each year to provide attendees with a broad perspective on laboratory sustainability challenges and solutions, both locally and nationally. As part of this effort, Labs21 organizes offsite tours of local laboratories and high-tech facilities that showcase green building efforts. Past tour sites include:

- Eli Lilly and Company’s Biotechnology Research Facility Building 362
- Indiana University School of Medicine Research III Building
- C. C. Perry “K” Generating Station and District Steam System

- Stanford University's Yang and Yamazaki Environment and Energy Building and Carnegie Institution, Department of Global Ecology Building, Palo Alto, California
- Santa Clara County Crime Laboratory, San Jose, California
- Sun Microsystems and NetApp Data Center Facilities, Palo Alto, California
- Southwest Foundation for Biomedical Research, San Antonio, Texas
- The Navy Yard at Noisette, North Charleston, South Carolina
- Medical University of South Carolina, Charleston, South Carolina
- University of Portland, Portland, Oregon
- Nidus Center for Scientific Enterprise, St. Louis, Missouri
- Donald Danforth Plant Science Center, St. Louis, Missouri
- Washington University, St. Louis, Missouri
- National Renewable Energy Laboratory, Golden, Colorado
- National Center for Atmospheric Research, Golden Colorado
- PG&E Energy Center, San Francisco, California
- EPA Research Triangle Park Laboratory, RTP North Carolina

### **International Outreach**

As part of its mission, conference co-sponsor, I<sup>2</sup>SL, is taking steps to increase the visibility of Labs21 in the international community. Nearly 50 international representatives from a dozen different countries attended the Labs21 2009 Annual Conference in Indianapolis, Indiana. Among these attendees were representatives from Australia, Europe, Canada, India, Japan, and Russia. Previous conferences have included attendees from the Egypt, Morocco, and Libya, arranged through a partnership with the U.S. Department of State.

Several well-attended sessions at the Labs21 2009 Annual Conference focused on laboratory sustainability topics in Canada, the United Kingdom, Ireland, and Australia. In addition, international attendees met to discuss the formation of a Global Sustainable Laboratory Council and shared ideas for facilitating the exchange of resources between international communities.

In addition, Labs21 has signed Memorandums of Understanding with Canada and the United Kingdom with the aim of creating similar organizations in each country.

### **Additional Information**

Please contact Labs21 and I<sup>2</sup>SL if you have any questions or would like additional information on any of the above-mentioned topics. Details on all past Labs21 Annual Conferences, including complete agendas and abstracts, exhibitor lists, tour descriptions, keynote speaker biographies, and host city profiles, can be found on the Labs21 Web site at <[www.labs21century.gov/conf/index.htm](http://www.labs21century.gov/conf/index.htm)> or on the I<sup>2</sup>SL Web site at <[www.i2sl.org/labs21/conference/index.html](http://www.i2sl.org/labs21/conference/index.html)>.