



Global Health,  
Safety, and Environment

# Health, Safety & Environment at Eli Lilly and Company



Partners for  
Pollution  
Prevention

Steve Gillman, P.E., Vice President

Health Safety & Environment

December 2 2009

The Lilly logo in red script.

Answers That Matter.

# **Agenda**

**9:30 a.m. – 9:55 a.m. Arrive at Lilly Technology Center Visitor Center**

**10:00 a.m. - 11:05 a.m.**

- **Welcome Steve Gillman, *Eli Lilly and Company, VP-Global Health, Safety, and Environment***
- **Environmental Sustainability Strategy - Greg Spratt, *Eli Lilly and Company, Environmental Sustainability Advisor***
- **Green Chemistry - John Kindervater, *Eli Lilly and Company, Consultant – HSE***

**11:05 a.m. – 11:15 a.m. Break**

**11:15 a.m. – 12:20 p.m.**

- **Environmental Process Reviews, Steve Leeper, *Eli Lilly and Company, Associate Consultant – HSE*; Rick Lambert, *Eli Lilly and Company, Associate Senior Consulting Engineer***
- **Acetonitrile (ACN) Recovery – Governor’s Award Project, Ben Paterson, *Eli Lilly and Company, Engineering Advisor.***
- **IDEM Update**

**12:20 p.m. – 1:15 p.m.**

- **Lunch and Networking (*Lunch provided by the Eli Lilly and Company.*)**
- **Overview of Biosynthetic Human Insulin Manufacturing Plant Tour, Tony Sykes, *Manager HSE – Indianapolis Active Pharmaceutical Ingredient***

**1:15 p.m. – 3:00 p.m.**

- **Tour of Biosynthetic Human Insulin Manufacturing Plant**

# Welcome!

1. Emergency Evacuation Instructions
2. Eli Lilly Overview
3. Lilly HSE Goals & Our Progress
4. Lilly HSE Awards
5. Q & A



# Building 140 Emergency Response Plan

## B140, B145, B170, B171 & B172 EMERGENCY RESPONSE PLAN

Employees should report any emergency situation by calling 555

### FIRE



- Activate Fire Alarm first then call **555** from a safe location.
- Listen for tone, watch for strobes and use the nearest safe **EXIT** to evacuate if tone and/or strobes are active.
- Evacuate to **W170 or N150 (primary), or W100 (alternate)** Rally Points (**red stars**), and call 7-2559 (RALLY). If you know, provide details of the fire.
- Security will provide instructions for re-entering and/or other actions.

### SEVERE WEATHER



- Listen for Security/Emergency announcement via the Site PA.
- Proceed to the designated shelters, **B140/B145/B170/B171/B172 Basement** (the **blue** areas) within 5 minutes. Stay clear of all window areas.
- Await **ALL CLEAR** or other announcements from Security.

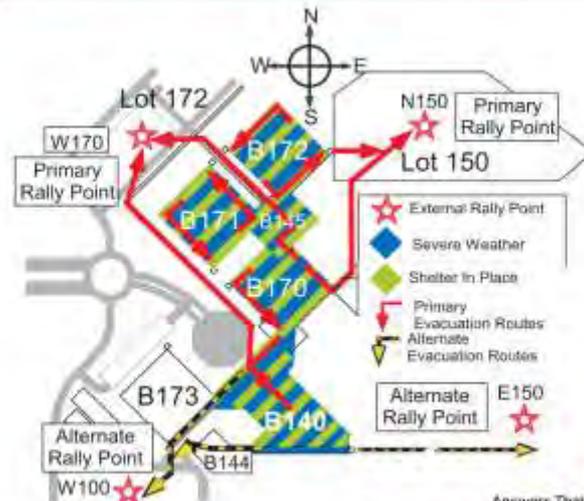
### MEDICAL

- Notify Security via **555** for any medical emergency.
- Identify **WHAT** and **WHERE** the problem is.

### CHEMICAL RELEASE



- Listen for Security Emergency announcement via the Site PA.
- Shelter in your **B140/B145/B170/B171/B172 Workstations** (the **green** area) within 5 min.
- Security will release you when the sheltering is no longer required.



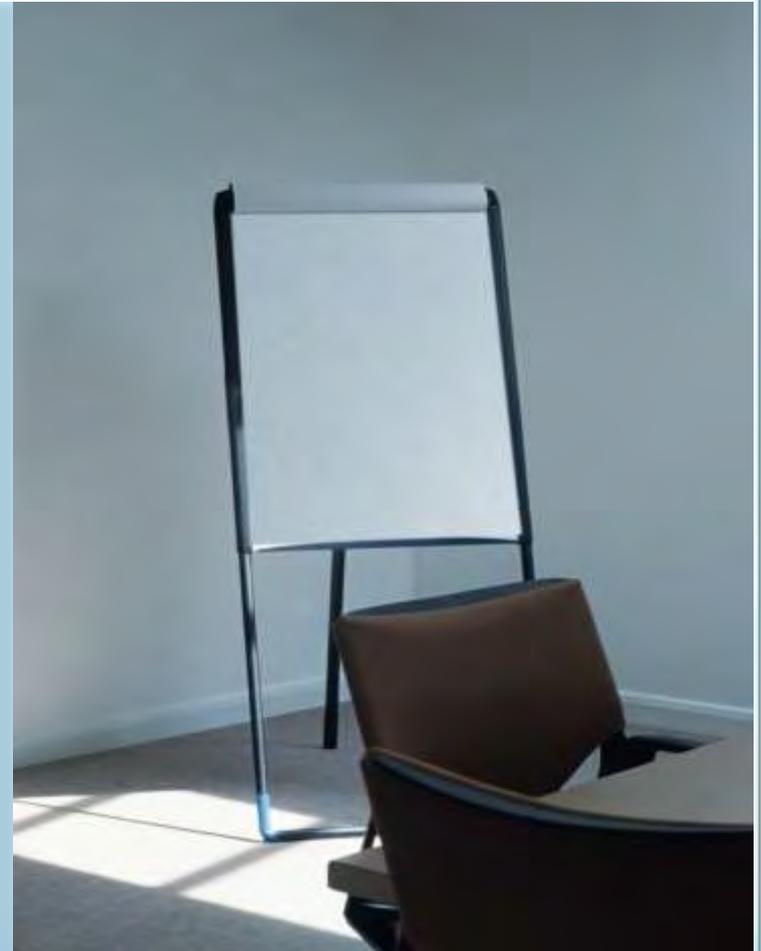
Answers That Matter.

For more information see the Lilly Fire Rescue  
Internal website: <http://erg>

2009 Update

# Our agenda today

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# Eli Lilly and Company

- A leading innovation-driven pharmaceutical corporation
- Applying the latest research from its own worldwide laboratories
- Collaborating with eminent scientific organizations and making use of the most up-to-date technological tools
- Providing answers to meet some of the world's most urgent and unmet medical needs

Eli Lilly and Company  
Lilly Corporate Center

# Fast Facts

- 
- A world map with colored dots (red, yellow, green) indicating global presence. The dots are concentrated in North America, Europe, and Asia, with a few scattered in South America, Africa, and Australia.
- **A heritage more than 130 years strong, founded on May 10, 1876**
  - **Headquarters located in Indianapolis, Indiana, U.S.A.**
  - **Approximately 40,000 employees worldwide**
  - **Approximately 7,500 employees engaged in research and development**
  - **Clinical research conducted in more than 50 countries**
  - **Research and development facilities located in 8 countries**
  - **Manufacturing plants located in 13 countries**
  - **Products marketed in 143 countries**

# Our Mission

**Lilly makes medicines that  
help people live longer,  
healthier, and more active  
lives.**

# Our Values

## **Integrity – Excellence - Respect for People**

- **We promise to operate our business with absolute integrity and earn the trust of all, set the highest standards for our performance and for the performance of our products, and demonstrate caring and respect for all those who share in our mission and are touched by our work.**

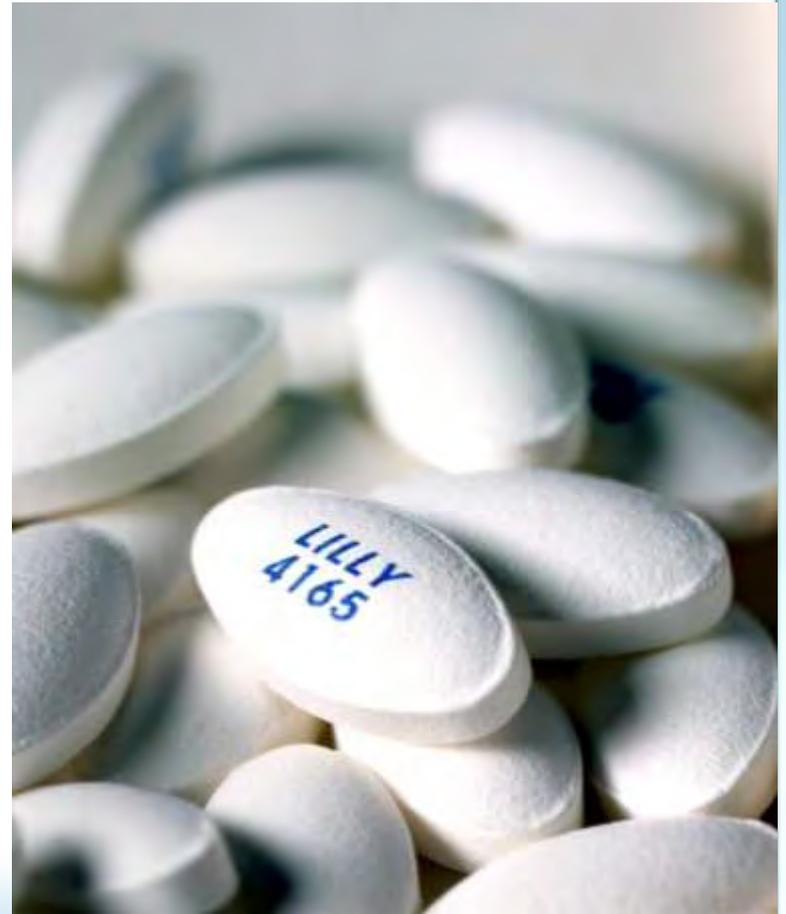
# Our Vision

## Improved Outcomes for Individual Patients

- **We will make a significant contribution to humanity by improving global health in the 21<sup>st</sup> century. Starting with the work of our scientists, we will place improved outcomes for individual patients at the center of what we do. We will listen carefully to understand patient needs and work with health care partners to provide meaningful benefits for the people who depend on us.**

# Providing Answers that Matter

- Lilly helped more than 173,000 patients in the U.S. obtain medicines through assistance programs. These programs are part of a broader industry effort.
- Through Partnership for Prescription Assistance program (PPARx), the pharmaceutical industry has helped more than 4 million people get affordable access to needed medicines.
- Additional information on PPARx may be found at [www.pparx.org](http://www.pparx.org).



# Lilly Corporate Citizenship

**In 2008, Eli Lilly and Company and the Lilly Foundation donated:**

- **More than \$295 million in product donations throughout the world**
- **More than \$53 million in cash**
- **More than \$2 million in-kind donations**
- **Total value of philanthropy was more than \$350 million.**

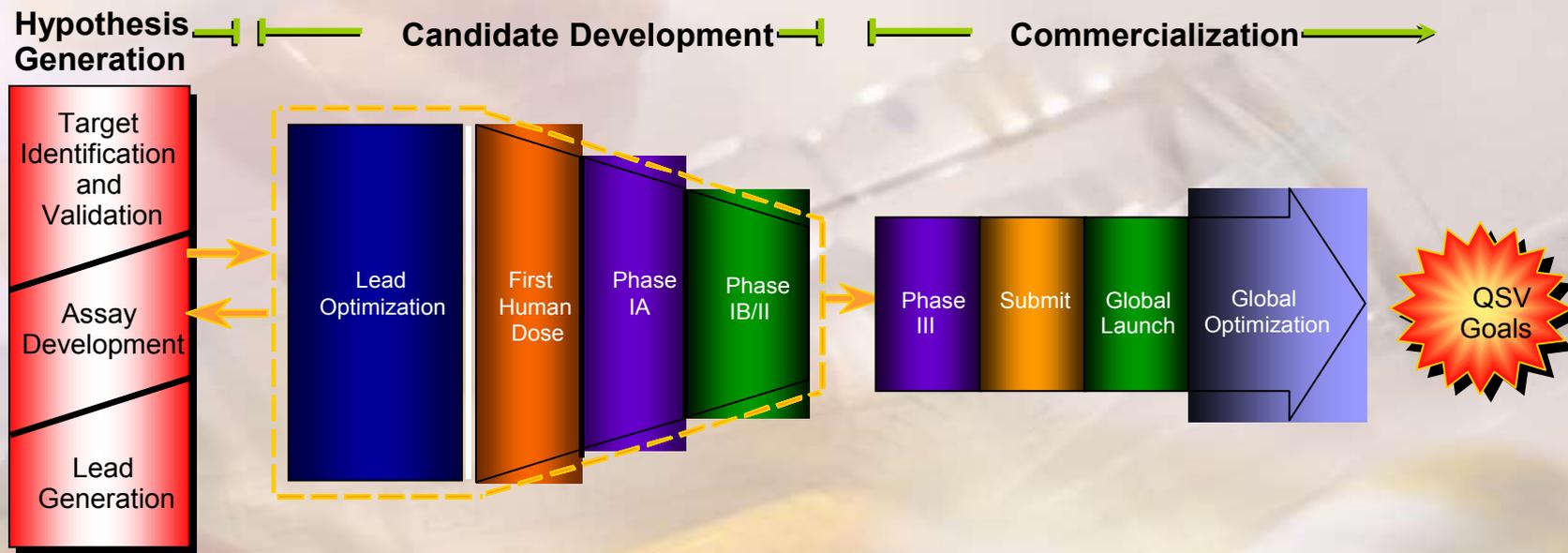


# Providing Answers that Matter

Established a pioneering initiative to treat multidrug-resistant tuberculosis (MDR-TB), one of the deadliest public health threats in the world. In collaboration with a coalition of 17 partners including the U.N. World Health Organization, Partners in Health, Brigham and Women's Hospitals of Harvard Medical School, Purdue University, and the International Council of Nurses, Lilly is providing low-cost antibiotics, training for international medical personnel, and technology to enable the manufacture of products for treatment in China, India, Russia and South Africa.



# From Research to Reality

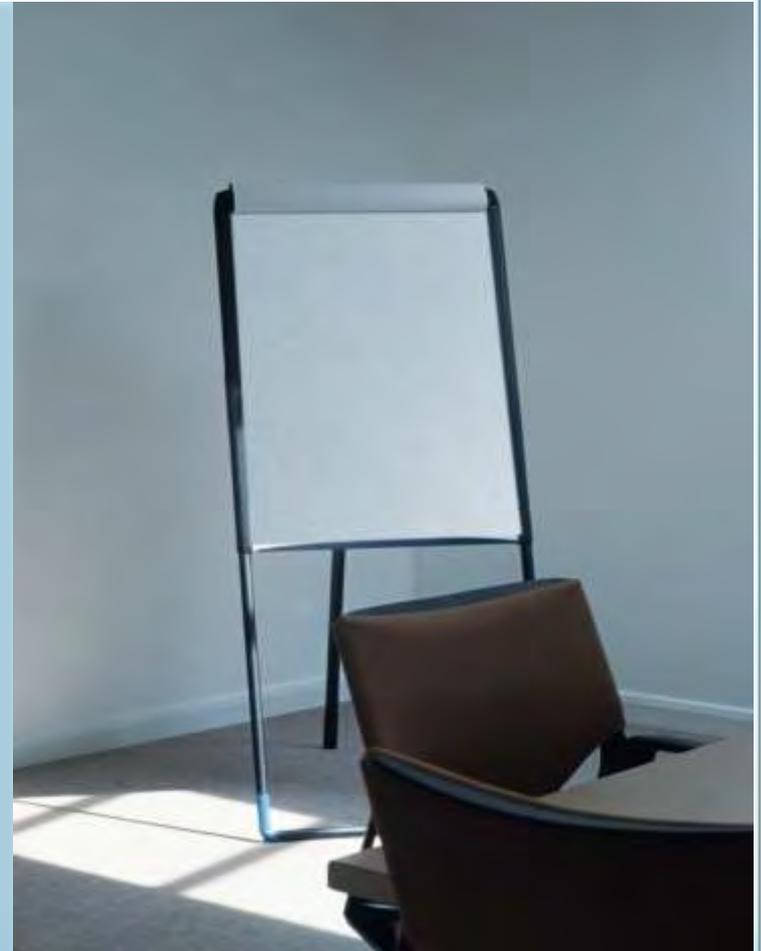


## Cost of a new pharmaceutical

- Average cost to discover/develop a new drug = \$800 million to approximately \$1 billion
- Average length of time from discovery to patient = 10 to 15 years
- Only one new chemical entity (NCE) out of 10,000 candidates will make it to launch.

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# Lilly HSE Performance Goals –by 2013\*

- **Lost Time Injuries** - Reduce lost time injury and illness rate (LTIR) by 50%
- **Serious Injuries & Illnesses** - Reduce the serious injury and illness rate (SIR) by 50%
- **Motor Vehicle Collisions** - Reduce CPMM (collision per million miles) by 50%
- **Energy** - Improve Lilly's energy efficiency and reduce the corresponding greenhouse gasses by 15%
  - Measure energy efficiency in terms of kBtu/GSF, (kWh/GSM for SI locations)
  - Measure corresponding greenhouse gasses in terms of MT/GSF or MT/GSM
- **Waste** - Reduce Lilly waste-to-landfill by 40% towards the ultimate goal of “zero landfill” of generated waste material.
- **Water Intake** - Reduce water intake by 25%.

**\*2009-2013 Goal Period (2007 Baseline year)**

# Lilly HSE Goal Progress

- **Serious Injuries & Illnesses**

- Lilly Global 3Q2009 = 0.9 (2013 Target=0.7) - Injury prevention activities show early results – Corporate Initiative to drive further improvement

- **Lost Time Injuries**

- Lilly Global 3Q2009 = 0.4 (2013 Target = 0.3) - Lost time injuries are decreasing at a slower rate than serious injuries

- **Motor Vehicle Collisions**

- Collisions per Million Miles 3Q2009 = 10.41 (2013 Target=5.55) - Continued focus and resources required to continue decrease in motor vehicle collisions

- **Energy**

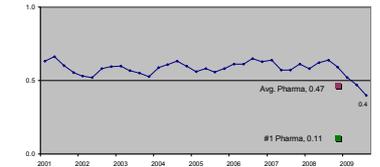
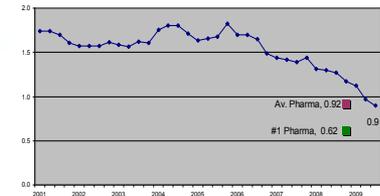
- Energy Efficiency Results 2Q2009 = 590 kBTU/ft<sup>2</sup> - Energy reduction initiatives resulting in steady efficiency improvements

- **Waste**

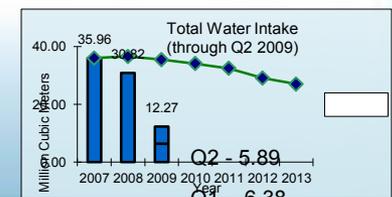
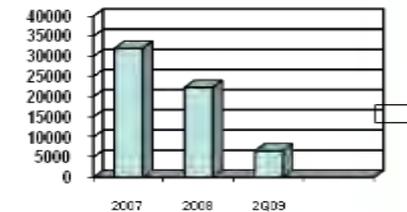
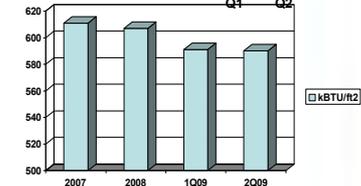
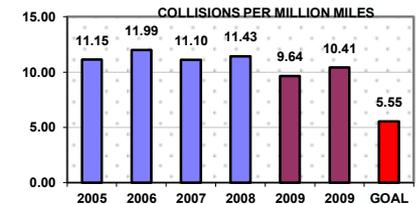
- *Waste to Landfill Results 2Q2009 = 6,562 MT - Significant decrease seen in 2008, one step closer to eventual goal of zero landfill*

- **Water Intake**

- Water Intake 2Q2009 = 12.29 Million Cubic Meters - Significant progress made 2007-2008 in efforts to reduce water intake

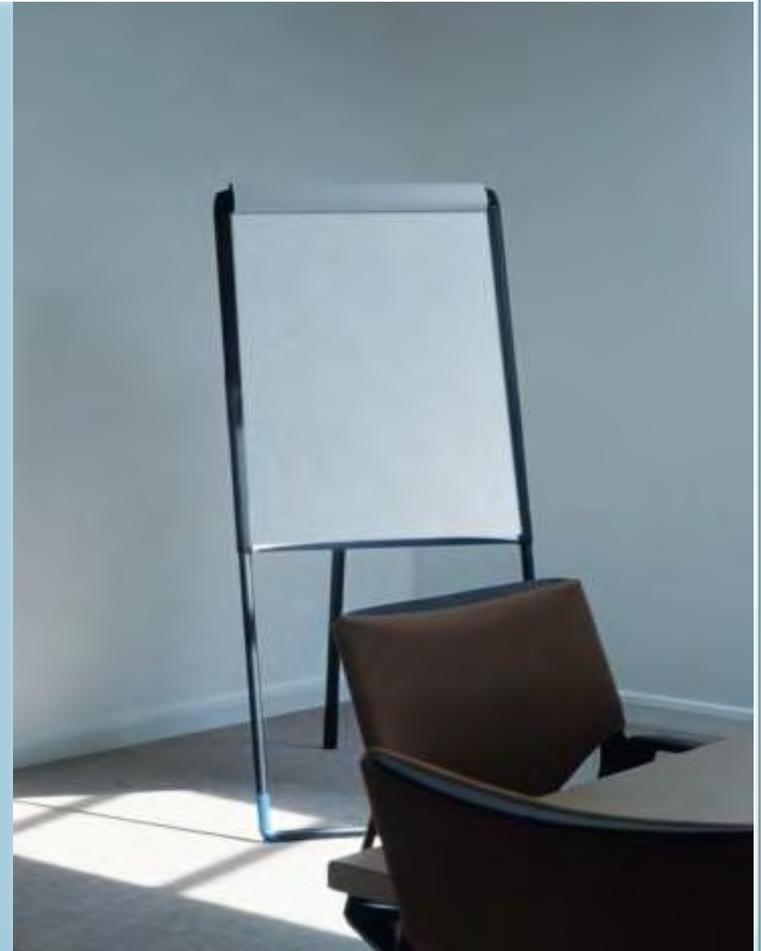


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# HSE Internal Awards

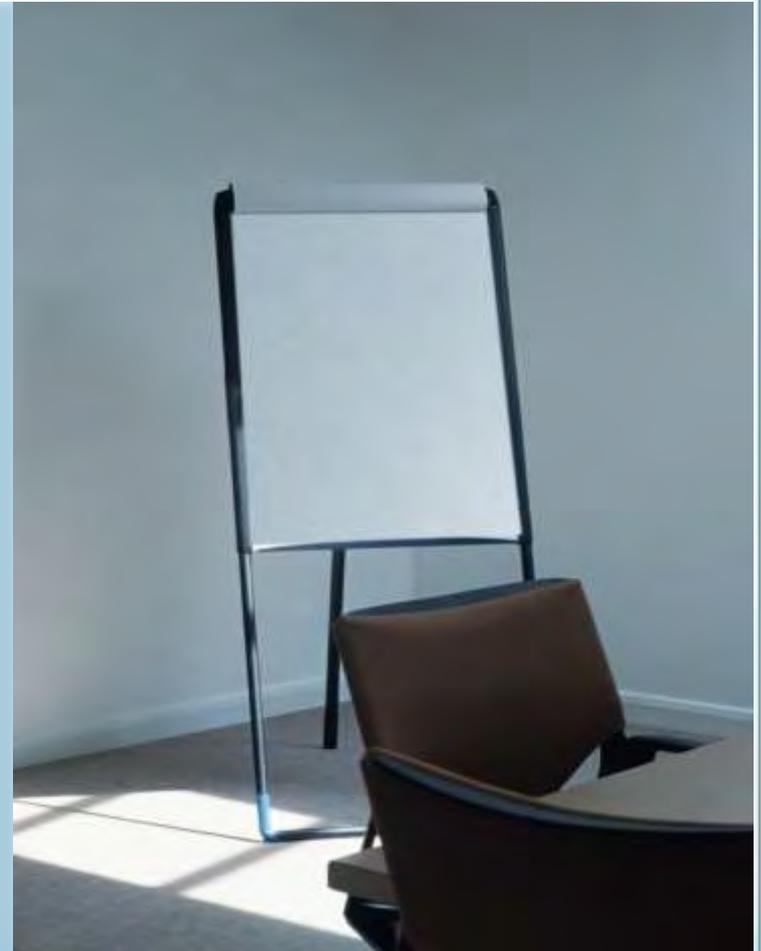
- **Water Intake Reduction** – Tippecanoe Laboratories – Plant Water Demand Reduction
- **Waste Reduction** - Delivery Device Assembly Operations – DDAO Waste Reduction Project
- **Energy Efficiency** -- Lilly del Caribe, Inc. Guayama, PR06 – Central Chilled Water Plant
- **Green Chemistry** -- Chemical Process R&D and Analytical Sciences R&D – Tasisulam Process Improvements
- **Process Safety** - Tippecanoe Laboratories – PSM Building a Stronger Foundation
- **Ergo Cup** -- China Suzhou Vacuum Lifter Project

# External Awards and Recognition

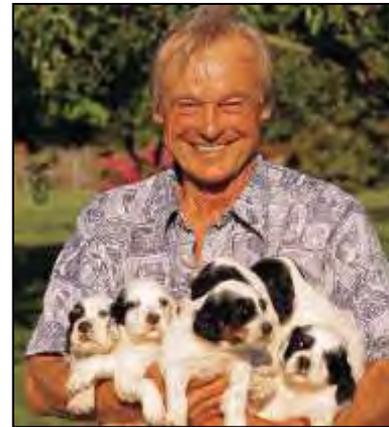
- The [National Safety Council](#) has recognized facilities in Indiana (Indianapolis BHI operations and Greenfield Laboratories) for establishing excellent safety records, including operating more than 2 million hours work without lost work-time injuries or deaths and at least 12 consecutive months without lost work-time injuries or deaths.
- The [Groundwork Trust](#) awarded the Speke, U.K., facility with a Merseyside Environmental Award - Responsible Business Award in recognition of the site's Fermentation Odour Abatement facility.
- The Indiana Department of Labor, the Indiana Chamber of Commerce, and the Central Indiana chapter of the American Society of Safety Engineers awarded the Indianapolis BHI site with the prestigious Indiana Governor's Workplace Safety Award for 2007 in the category of innovations.
- The U.S. EPA honored Tippecanoe Laboratories in Lafayette, Indiana, with its prestigious [Clean Air Excellence Award](#) for two consecutive years. In 2005, the site received an award for its innovative flexible air permit. The following year Tippecanoe Labs received a second Clean Air Excellence Award for its role in developing a multi-metals continuous emissions monitoring system.
- The [David Shepherd Wildlife Foundation](#) awarded the Erl Wood research facility in the U.K. with the Surrey Sustainable Business Award for 2006.
- Keep Indianapolis Beautiful Landscape Architecture Award Building 93 Green Roof, 2009
- Keep Indianapolis Beautiful Rethink Award - Sustainability Garden Project, 2009

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# Going home safely every day is the most important goal for all employees.



**BACK UP SLIDES**

# Commitment

- **Lilly has developed productive alliances and partnerships that advance our capacity to develop innovative medicines at lower costs.**
- **Lilly is consistently ranked as one of the best companies in the world to work for, and generations of Lilly employees have sustained a culture that values integrity, excellence, and respect for people.**

# Lilly Global Presence - 2009

