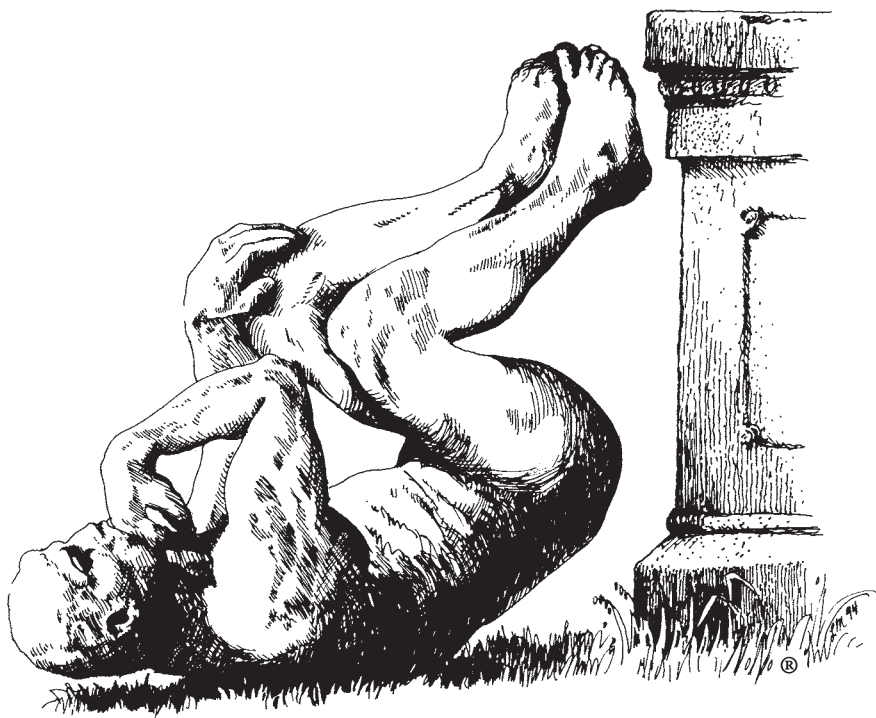


# IgBILL



## Ig<sup>®</sup> Nobel Prize Ceremony

2011

This Year's Theme: *Chemistry*

## About the Ig Nobel Prizes

Ig Nobel Prizes are awarded for achievements that first make people LAUGH, and then make them THINK. The Igs are intended to spur public curiosity and interest in science and other fields of endeavor. Ten prizes are awarded each year. Winners travel to the ceremony at their own expense.

The Ig Nobel Prize winners are, despite possible appearances to the contrary, real. Their achievements are well documented.

**What to expect tonight:** Imagine every ceremony you have ever had to endure. Loop them all together, at high speed, upside down. Add ten Ig Nobel Prize winners. That's the Ig Nobel Prize ceremony.



### Paper Airplanes

Paper airplanes are a tradition at the Ig Nobel Prize Ceremony. Modern flight regulations apply. Listen for the Special Announcement right after the pre-ceremony concert, and just before the start of the ceremony proper.

Please ready your aircraft – but do not yet launch them.

See page 5 for more details.

## The Twenty-First 1<sup>st</sup> Annual Ig<sup>®</sup> Nobel Prize Ceremony

Thursday, September 29, 2011, 7:30 pm  
Sanders Theatre, Harvard University

Reluctantly inflicted on you by  
the international science humor magazine  
***Annals of Improbable Research***  
**(AIR)**

and co-sponsored by  
**The Harvard-Radcliffe Science Fiction Association**  
**The Harvard-Radcliffe Society of Physics Students**  
**The Harvard Computer Society**

The theme of this year's ceremony is

*Chemistry*



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## Harvard-Radcliffe Science Fiction Association

Narratively Proud Intergalactic Co-Sponsors  
of the Ig Nobel Prize Ceremony Since 1996

## Harvard-Radcliffe Society of Physics Students

Theoretically Proud Experimental Co-Sponsors  
of the Ig Nobel Prize Ceremony Since 2000

## Harvard Computer Society

Algorithmically Proud Experimental Co-Sponsors  
of the Ig Nobel Prize Ceremony Since way Back when

# Google™

Congratulations to the Ig Nobel Prizes  
on being markedly more amusing than  
those other, rather stuffy science prizes.

## SCHEDULE OF EVENTS

### Pointless Preamble

- Pre-ceremony ChemicoConcerts  
(First 6:45, in the lobby. Then 7:10, in the theater)
- Ceremony begins (**7:30, in the theater**)
- Performance of Tom Lehrer's song "The Elements"
- Appearance of the Delegations
- The Traditional Ig Nobel "Welcome, Welcome" Speech

### Everything Else

- **Awarding of the 2011 Ig Nobel Prizes\*** (weather permitting)
- ***Chemist in a Coffee Shop***: A Mini-Opera in 5 Acts\*
- The 24/7 Lectures
- Introduction of Past Winners
- A Tribute to Professor Lipscomb
- The Win-a-Date-With-a-Nobel-Laureate Contest
- Other Things\*
- The Traditional Ig Nobel "Goodbye, Goodbye" Speech
- Disappearance of the Audience

*\* scattered throughout the evening*

### Paper Airplanes

In the interests of safety and recycling, there  
will be two (2) special paper-aeronautic  
moments tonight.

**Please hold your paper airplanes in  
readiness – and then fly them only during  
those two special moments.**

An authority figure will risk making it very  
clear when each of those moments arrives.



*Roy Glauber, Ig Nobel  
paper airplane sweeper,  
and Nobel Laureate.*

## Pre-Ceremony: **ChemicoConcerts**

*(One in the lobby, then another the theater)*

Before the ceremony, watch for two special, brief Chemico Concerts. The first, by the Boston Squeezebox Ensemble, begins in the lobby at 6:45 pm. Then at 7:10, go into the theatre proper to see a very different sort of music on stage, performed by the noted scientist/busker duo Yesterday's Bait. The performers in both groups are composed entirely of chemicals.

### **This Year's Theme**

The theme of this year's ceremony is **CHEMISTRY**.

The theme applies to various goings-on, though not necessarily (and not necessarily not) to any of the particular achievements being honored with an Ig Nobel Prize.

### **"The Elements"**

Tom Lehrer's song "The Elements" will figure prominently in the ceremony. It is demonstrably the finest song about chemistry ever written by a mathematician.

### **The mini-opera**

A new, microbial mini-opera – "Chemist in a Coffee Shop" – will be performed during the ceremony. It has five acts. The cast members are composed entirely of chemicals.

### **Celebrity Bacteria**

The theme of last year (2010)'s ceremony was Bacteria. Several trillion celebrity bacteria were seated in or on the audience. Many of them will be here again tonight. See if you can spot them.



*Andre Geim receiving his Ig Nobel Prize in 2000. Several of the people in this photo will participate in the 2011 Ig Nobel Prize ceremony.*

## **Geim's Twin Honors**

Six days after last year's ceremony came the news: Andre Geim was chosen to receive a 2010 Nobel Prize in physics, for his discoveries about graphene (the two-dimensional form of carbon). Ten years earlier Geim and Michael Berry were awarded the 2000 Ig Nobel Prize in physics, for using magnets to levitate a frog.

**Your research  
gave us all a laugh. And we  
mean that in the best possible way.**

Thank you.



**Museum of Science.**

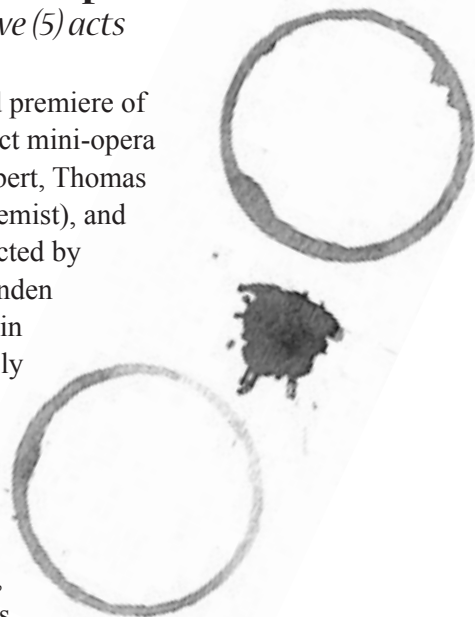
## "Chemist in a Coffee Shop"

World Premiere mini-opera in five (5) acts

The ceremony will include the world premiere of "Chemist in a Coffee Shop," a five-act mini-opera starring Maria Ferrante, Roberta Gilbert, Thomas Michel, Daniel Rosenberg (as the chemist), and Marc Anelman, directed and conducted by maestro David Stockton. Pianist Branden Grimmitt accompanies. Karen Hopkin narrates. The cast is composed entirely of chemicals.

It's a drama about a chemist who comes into a coffee shop.

Special thanks to the many coffee shops in and around Harvard Square, and to their chemically savvy baristas, for inspiration and coffee.



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[www.extension.harvard.edu](http://www.extension.harvard.edu)

## The Ig Informal Lectures!

SATURDAY afternoon, Oct. 1, 2011, 1:00 pm

MIT Building 26, Room 100  
60 Vassar St., Cambridge

**FREE!**

(But seating is limited,  
so get there early)

### A Saturday Treat...

At tonight's Ig Nobel Prize Ceremony, each winner is allowed just ONE MINUTE to deliver an acceptance speech. But of course you'll want to hear more juicy details, and ask them questions, and so....

You are invited to come enjoy a lazy, lively half-afternoon of brief (five minutes each, plus questions & answers), high-spirited talks by **the 2011 Ig Nobel Prize winners and several past winners.**

Produced by the *Annals of Improbable Research*  
in cooperation with  
**The MIT Press Bookstore**  
([mitpress.mit.edu/bookstore](http://mitpress.mit.edu/bookstore))

## Ig Webcast

The ceremony is being webcast live on YouTube. Video highlights of many past ceremonies are at [www.improbable.com](http://www.improbable.com)

## NPR Broadcast

On the day after Thanksgiving, listen to the traditional Ig Nobel Broadcast on National Public Radio (NPR)'s *Talk of the Nation / Science Friday* with Ira Flatow. Many of the previous year's Ig broadcasts at [www.ScienceFriday.com](http://www.ScienceFriday.com). You can see video highlights of several past ceremonies at [www.improbable.com](http://www.improbable.com).

## Authority-Like Figures

*As always, IgBill had incomplete information at press time. You may not be able to tell the players even with this scorecard.*

(NOTE: \*\* indicates name is misspelled)

**Producer/Director:** Marc Abrahams

**Co-Producer and Stage Manager:** David Kessler

**Opera Stage Director/Conductor:** David Stockton

**Assistant Stage Manager, and Webcast Coordinator:** Joshua Kroll

**Writers:** Marc Abrahams, Alice Shirrell Kaswell, and friends

**Ig Nobel Facilitator:** Katherine Meusey

**Band Maestro:** Nicholas Carstoiu

**Pre-ceremony Maestro:** Thomas Michel

**Lurking Presences:** Robin Abrahams, Mira Wilczek, Stanley Eigen

**Lighting & Technology:** Rob Sanders, Hunter Heinlen, Joshua Kroll.  
Special thanks to Holly Gettings

**Props and Scenery:** Eric Workman

**House Sound:** Bay State Sound

**Sound Recording:** Miles Smith, Frank “Barefoot” Cunningham

**Slide Show:** Geri Sullivan, Richard Baguley

**Prize & Props Creation:** Eric Workman

**Green Room Oracle:** Jaclyn Friedman

**Provisionary Logisticians:** Gus Rancatore, Corky White, Vaughn Tan

**HRSFA Coordinator:** Adam Swiatlowski

**HRSFS Coordinators:** Annie Baldwin and Nikko Pomata

**HCS Coordinator:** Carl Jackson

**Grand Panjandrum of the Delegations:** Louise Sacco

**Videography:** Seven Generations Video, Bruce Petschek, Don Schechter, Cody Signore, Nick Petschek, Trevor Chamberlain

**Webcast/Broadcast engineer:** Quentin Smith

**Diplomats:** Susan Kany (lead diplomat), Dany Adams, Connie Brichford, Katherine Glover, Dariusz Jemielniak, Joanna Jemielniak, Neil Judell, Joe Maguire, Gus Rancatore, Atholie Rosett, Naomi Stephen, Vaughn Tan, Corky White

**Press Wranglers:** Lisa Birk, Mark Kramer, Ari Brenner

**Photographers:** Alexey Eliseev, David Holzman, Mike Benveniste, John Bradley

**Ig Informal Lectures (Saturday) Coordinator:** John Jenkins

**Ig Nobel Webmaster:** Julia Lunetta

**Global Webcast Party Coordinator:** Neil Gussman

**Artwork & Logos:** Geri Sullivan, Lois Malone

**Master Technician emeritus:** Dave Feldman

**IgBill Design and Layout:** Geri Sullivan



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# People

## Master of Ceremonies

Marc Abrahams, editor, *Annals of Improbable Research (AIR)*

## Nobel Laureates

*most of the following:*

Dudley Herschbach (Chemistry 1986)

Rich Roberts (Physiology or Medicine, 1993)

Jack Szostak (Physiology or Medicine, 2009)

Roy Glauber (Physics, 2005)

Eric Maskin (Economics, 2007)

Peter Diamond (Economics, 2010)

Lou Ignarro (Physiology or Medicine, 1998)

Jerome Friedman (Physics, 1990)

*and perhaps some others*

**Returning Ig Nobel Prize Winners:** Dan Meyer (Medicine, 2007),  
Don Featherstone (Art, 1996)

**Welcome Welcome Speaker:** Jean Berko Gleason

**24/7 Lecturers:** Susan Lindquist, Donna Nelson, Dudley Herschbach,  
Kate Clancy, and perhaps one or two additional distinguished guests

**Opera Stage Director/Conductor:** David Stockton

**Opera Soloists:** Maria Ferrante, Roberta Gilbert, Thomas Michel,  
Daniel Rosenberg

**Opera Non-Soloists:** Marc Andelman and everyone else

**Opera Pianist:** Branden Grimmitt

**Opera Narrator:** Karen Hopkin

**Pre-Ceremony Lobby ChemicoConcert:** Boston Squeezebox Ensemble

**Pre-Ceremony On-Stage ChemicoConcert:** Yesterday's Bait  
(Thomas Michel and Ted Sharpe)

**Band:** Nick Carstoiu

**Mike Monkey:** Robin Abrahams

**Parade and Opera Announcer:** Karen Hopkin

**Human Spotlights:** Jim Bredt, Katrina Rosenberg

**Human Curtain Rods:** Debra Wise, Constance Brichford

**Human Aerodrome:** Rose Fox

**Referee:** Mr. John Barrett

**V-Chip Monitor:** Noted Attorney William J. Maloney

**Attorney William J. Maloney:** Himself

**Majordomo:** Gary Dryfoos

**Minordomos:** Genevieve Reynolds (Major Minordomo), Julia Lunetta,  
Peaco Todd, Julia Rios, Jenny Gutbezahl, Ben Biggs, Moss Collum

**Onstage Lurking Presence:** Mira Wilczek

**Performing Chemists:** Joost Bonsen, Daniel Rosenberg, et al.

**Performing Props Master:** Eric Workman

**Miss Sweetie Poo:** Liraz Brand

**Official Sweepers:** Sylvia Rosenberg, Roy Glauber, Tabitha Bohmbach

**Hecklers:** You, the audience

**Goodbye Goodbye Speaker:** Jean Berko Gleason

---

## Jerry and Benoit

During the past year the Ig Nobel gang lost two of its best and cleverest and most celebrated friends and performers: Jerry Lettvin, a giant in neuroscience and almost everything else; and Benoit Mandelbrot, the inventor of fractals and ever-so-much more. The two were close friends for many decades. We will miss them at the Ig—where each was an occasional and spectacular performer—and even more the rest of the year. We have had and will have much to say and celebrate, in other times and places, about both Jerry and Benoit.

## The 24/7 Lectures

Each 24/7 Lecture will be delivered by one of the world's great thinkers.

Each lecture has two parts:

**A complete technical description  
in 24 SECONDS**

**A clear, accurate summary  
that anyone can understand  
in SEVEN WORDS**

The time limit and word limit will be **strictly enforced** by **Mr. John Barrett**, the Ig Nobel Referee.

This year's 24/7 lecturers:

- **Susan Lindquist**, protein-folding pioneer. TOPIC: **Stress Responses**
- **Donna Nelson**, chemistry professor (and science advisor to the TV program "Breaking Bad"). TOPIC: **Carbon-Walled Naonotubes**
- **Dudley Herschbach**, Nobel laureate. TOPIC: **Chemistry**
- **Kate Clancy**, anthropology professor. TOPIC: **Vaginal pH**

and perhaps one or two others....

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## Special Thanks to...

Sid and Selma Abrahams, Jackie Baum, Bob Bartosch, Lisa Birk and The Boys, Tina Bowen, The British Science Association, Brown/Rudnick, Thad Choem-tiarana, Chris DiBona, Mark Dionne, Tatiana Divens, Eric Engel, Jesse Eppers, Martin Gardner, Holly Getting, Jason Govostes, Jeff Hermes, Holleb & Coff, Tom Lehrer, Jerry and Maggie Lettvin, Jerry Lotto, Ilya Luvish, Lois Malone, Milo, Katherine Meusey, Regular Noetzli,\*\* The Flying Petscheks, Ruth Polleys, Harriet Provine, Gus and Mimi Rancatore and Toscanini's Ice Cream, The Flying Rosenbergs, Jonathan Salz, Sanders Theatre, Jim Stoll, Geri Sullivan, Al Teich, Ray Traietti, Joe Wrinn and Howard Zaharoff.

**Very special thanks** also to the late Alan Symonds, who for more than a decade helped us solve our technical problems, and the late Bob Dushman, who gallantly defended the Ig against a marauder.

\*\* Name misspelled.



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## Professor Lipscomb is Gone

by Marc Abrahams, editor, *Annals of Improbable Research*

Very sad news. My good friend and longtime collaborator William Lipscomb died this past April after a period of ill health.

Bill, also known as “The Colonel” because he was a Kentucky Colonel, was a great scientist. A prize grad student of Linus Pauling, Bill went on to himself be awarded a Nobel Prize and later still to see several of his own students and mentees be given Nobel Prizes. He was also perhaps the best and funniest performer in most of the Ig Nobel Prize ceremonies (the photo here shows him in the 1994 ceremony, dancing in “The Interpretive Dance of the Electrons”) and in many other adventures we had together (some of which you can see in video form, on the [www.improbable.com](http://www.improbable.com) web site).

Improbably photogenic, he was a frequent cover model for the *Annals of Improbable Research* – indeed, he was the most frequently pictured person there. Other magazines splash supermodels, singers, or politicians on their covers; we usually chose, instead, the man whose image was more compelling than that of a mere movie star. It was nearly impossible to see Bill performing, or even a photo of him in performance, and not be entranced.



He was the prize in the very first Win-a-Date-with-a-Nobel-Laureate Contest, at the 1993 ceremony. We subsequently gave him away numerous times, including last year, 2010, when he made his final Ig Nobel appearance. By that time he had trouble walking, but gleefully insisted on being part of the show. He and his wife, Jean, issued a kind and firm invitation to hold our opera rehearsals at their home prior to the ceremonies in 2009 and 2010. The tradition carried on this year, 2011.

I interviewed Bill several times for the magazine and for its predecessor (of which I was the editor for several years), and now wish I had done it many more times. These were not just interviews but performances, usually with only ourselves as an immediate audience. Bill was both himself, Professor Lipscomb, and, at the same time, a slightly heightened version of himself that we both came to know as “Professor Lipscomb.” The character carried over to the stage each year at the Ig Nobel Prize ceremony and occasionally in other public settings.

Here’s a shortened version of an interview he and I did in 1996. It appeared that year in vol. 2, no. 2 of the magazine.

**QUESTION: In your paper “Boron Arrangement in B<sub>9</sub> Hydride,” you discuss two plausible hydrogen atom arrangements.**

Well, the fact is, this was a very difficult problem, because it was presented to us as a compound containing eight boron atoms, when it really contained nine. We were completely at a loss to understand it, and we tried out all the possibilities for the B<sub>8</sub> hydride, and finally concluded that there couldn’t be eight—there must be one more. So we put another one in and it worked. This is an illustration about science that if you eliminate all the other possibilities, then if only one more remains, that must be the correct one. Well, that reminded me—I was then at the University of Minnesota and a member of the Baker Street Irregulars, a chapter of the Sherlock Holmes Society “The Norwegian Explorers.”

**QUESTION: Yes, Sherlock Holmes is very interesting. Now, we were talking about the hydrogen atoms...**

Yes, I just wanted to illustrate that this was done using the method of Sherlock Holmes. In the complete works of Sherlock Holmes there are four places where Holmes says, “Wherever all other contingency fails, whatever remains, no matter how improbable, must be the truth.” This is Holmes’s method. Now, the other three places use wording that’s rather like that but not exactly like that.

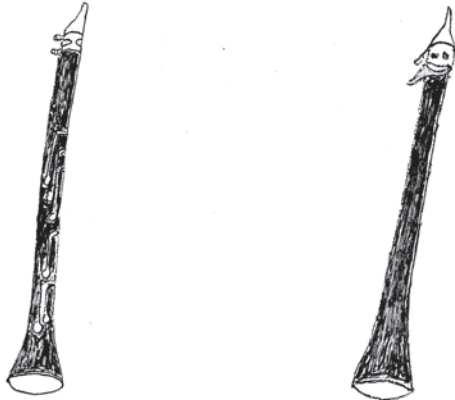
**QUESTION: About those hydrogen atoms...**

There’s another aspect to Holmes that I really enjoyed very much. He was a violinist – a very fine musician, as Watson notes...

## From Dudley to Bill

by Dudley Herschbach

For Bill Lipscomb's 80th birthday celebration, I gave him this verse, composed in the style of Professor Robert Williams Wood (1868-1955), who published in 1917 a delightful little book titled *How to Tell the Birds from the Flowers*. It contained about 50 whimsical poems, each illustrated by a pair of charming drawings. His drawings brought out unappreciated similarities and his verse emphasized significant differences. Both are essential in the pursuit of science and much else, especially serious humor!

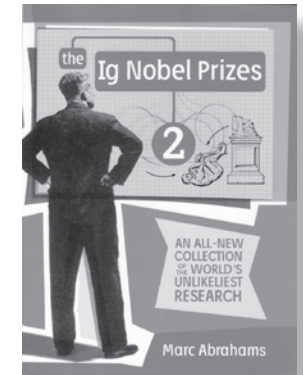


*The Clarinet      The Clairvoyant*  
 Like an enchanted wand meant to entice  
 A sombulent genie or a spooky poltergeist,  
 The throaty voice of this siren woodwind  
 Swoops and soars, flares wide and wanes thin.  
 Yet often these same sombre tones  
     *provoke a jazz riot,*  
 For goblins once conjured up  
     *may not stay quiet.*



## Want the inside story?

Read about who, what, where, when, and to some extent, why. And learn what else the Ig winners have been up to....



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## 21 Improbable Years

| IG <sup>®</sup> NOBEL<br>PRIZE CEREMONY | YEAR | THEME        |
|---|------|--------------|
| First Annual                            | 1991 |              |
| 2nd First Annual                        | 1992 |              |
| 3rd First Annual                        | 1993 |              |
| 4th First Annual                        | 1994 | The Elements |
| 5th First Annual                        | 1995 | DNA          |
| 6th First Annual                        | 1996 | Biodiversity |
| 7th First Annual                        | 1997 | The Big Bang |
| 8th First Annual                        | 1998 | Duct Tape    |
| 9th First Annual                        | 1999 | Heredity     |
| 10th First Annual                       | 2000 | Intelligence |
| 11th First Annual                       | 2001 | Complexity   |
| 12th First Annual                       | 2002 | Jargon       |
| 13th First Annual                       | 2003 | Nano         |
| 14th First Annual                       | 2004 | Diet         |
| 15th First Annual                       | 2005 | Infinity     |
| 16th First Annual                       | 2006 | Inertia      |
| 17th First Annual                       | 2007 | Chicken      |
| 18th First Annual                       | 2008 | Redundancy   |
| 19th First Annual                       | 2009 | Risk         |
| 20th First Annual                       | 2010 | Bacteria     |
| 21st First Annual                       | 2011 | Chemistry    |

A list of the new Ig Nobel Prize winners will be posted at  
**WWW.IMPROBABLE.COM**

## Last Year's (2010) Ig Nobel Prize Winners

**ENGINEERING PRIZE:** Karina Acevedo-Whitehouse and Agnes Rocha-Gosselin of the Zoological Society of London, UK, and Diane Gendron of Instituto Politecnico Nacional, Baja California Sur, Mexico, for perfecting a method to collect whale snot, using a remote-control helicopter.

**MEDICINE PRIZE:** Simon Rietveld of the University of Amsterdam, The Netherlands, and Ilja van Beest of Tilburg University, The Netherlands, for discovering that symptoms of asthma can be treated with a roller-coaster ride.

**TRANSPORTATION PLANNING PRIZE:** Toshiyuki Nakagaki, Atsushi Tero, Seiji Takagi, Tetsu Saigusa, Kentaro Ito, Kenji Yumiki, Ryo Kobayashi of Japan, and Dan Bebber, Mark Fricker of the UK, for using slime mold to determine the optimal routes for railroad tracks.

**PHYSICS PRIZE:** Lianne Parkin, Sheila Williams, and Patricia Priest of the University of Otago, New Zealand, for demonstrating that, on icy footpaths in wintertime, people slip and fall less often if they wear socks on the outside of their shoes.

**PEACE PRIZE:** Richard Stephens, John Atkins, and Andrew Kingston of Keele University, UK, for confirming the widely held belief that swearing relieves pain.

**PUBLIC HEALTH PRIZE:** Manuel Barbeito, Charles Mathews, and Larry Taylor of the Industrial Health and Safety Office, Fort Detrick, Maryland, USA, for determining by experiment that microbes cling to bearded scientists.

**ECONOMICS PRIZE:** The executives and directors of Goldman Sachs, AIG, Lehman Brothers, Bear Stearns, Merrill Lynch, and Magnetar for creating and promoting new ways to invest money — ways that maximize financial gain and minimize financial risk for the world economy, or for a portion thereof.

**CHEMISTRY PRIZE:** Eric Adams of MIT, Scott Socolofsky of Texas A&M University, Stephen Masutani of the University of Hawaii, and BP [British Petroleum], for disproving the old belief that oil and water don't mix.

**MANAGEMENT PRIZE:** Alessandro Pluchino, Andrea Rapisarda, and Cesare Garofalo of the University of Catania, Italy, for demonstrating mathematically that organizations would become more efficient if they promoted people at random.

**BIOLOGY PRIZE:** Libiao Zhang, Min Tan, Guangjian Zhu, Jianping Ye, Tiyu Hong, Shanyi Zhou, and Shuyi Zhang of China, and Gareth Jones of the University of Bristol, UK, for scientifically documenting fellatio in fruit bats.

For a complete list of all Ig Nobel Prize winners (1991-now)  
see the Improbable Research web site

**WWW.IMPROBABLE.COM**

## SANDERS THEATRE

Sanders Theatre in Memorial Hall is operated by the Office for the Arts at Harvard. All inquiries should be addressed to:

Memorial Hall/Lowell Hall Complex, 45 Quincy Street, Room 027, Cambridge, MA 02138-3003.  
Phone: 617.496.4595 Fax: 617.495.2420.

**CALENDAR OF EVENTS** Available at the Harvard Box Office web site:

[www.boxoffice.harvard.edu](http://www.boxoffice.harvard.edu)

**SMOKING** There is no smoking allowed in Memorial Hall.

**RESTROOMS, PUBLIC TELEPHONE, & ATM** Located on the Lower Level.

**PARKING — THERE IS NO PARKING AT SANDERS THEATRE.**

Free parking for Sanders Theatre events is available at the Broadway Garage, corner of Broadway and Felton Streets, from one hour pre-performance to one hour post-performance. For some student events, patrons will be asked to park at 38 Oxford Street.

**LOST AND FOUND** Call 617.496.4595 or visit the Administrative Offices, Memorial Hall room 027. Memorial Hall and Harvard University are not responsible for lost or stolen property.

**LATECOMERS** Latecomers will be seated at the discretion of the management.

**PHOTOGRAPHY AND RECORDING** Use of cameras and audio, video, or digital recording equipment of any kind, including cell phones, is prohibited. Equipment will be confiscated.

**ACCESS FOR PATRONS WITH DISABILITIES** Wheelchair accessible seating is available through the Harvard Box Office by telephone at 617.496.2222, TTY 617.495.1642, or in person. Sanders Theatre is equipped with Sennheiser Infraport RI 100 J headset receivers and EZT induction neck loop Assistive Listening Devices, available at the Box Office one-half hour before performance time.

For information about parking for disabled patrons, call Marie Trottier, University Disability Coordinator, at 617.495.1859, TTY 617.495.4801, Monday through Friday 9am to 5pm. Please call at least two business days in advance

## THE HARVARD BOX OFFICE

Ticketing Sanders Theatre events and more. Phone: 617.496.2222; TTY: 617.495.1642

**Advance Sales:** Holyoke Center Arcade, Harvard Square, 1350 Massachusetts Avenue. Open Tuesday-Sunday 12 noon to 6pm. Closed Mondays, some holidays and has limited summer hours.

**Pre-Performance Sales:** Sanders Theatre at Memorial Hall

Open performance days only, at 12 noon for matinees and 5pm for evening performances.

Open until one-half hour after curtain.

**USHERING** To inquire about ushering opportunities, contact the Production Office at 617.495.5595.

### MEMORIAL HALL/LOWELL HALL COMPLEX STAFF

Director: Eric C. Engel / Program Manager: Ruth A. Polleys / Assistant Director: Raymond C. Traietti / Production Manager: Tina Bowen / Production Associate: Jonathan Salz / Production Services Coordinator: Ilya Luvish / Staff Assistant: Adam Kassim

### HARVARD BOX OFFICE STAFF

Box Office Manager: Tina L. Smith / Manager of Student Ticketing Services and Associate Box Office Manager: Jason Govostes / Senior Box Office Associate: Bob Bartosch / Box Office Associates: Amy LeBrun Stepsis and Michael Van Devere / Box Office Assistant: Vic Yambao

## Upcoming Events

Upcoming Ig Nobel / Improbable Research events include: the annual Improbable Research session at the Annual Meeting of the American Association for the Advancement of Science; the annual U.K. tour of the UK; etc. There have also been tours or events in Australia, The Netherlands, Austria, Greece, Sweden, Ireland, Mexico, Canada, Switzerland, Denmark, with more to come.

For details, see:

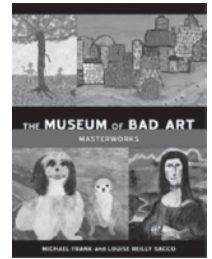
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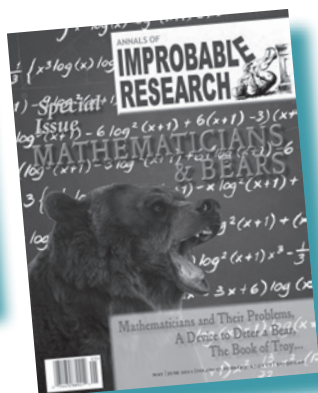
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|--------------------------|---------------------|---------|--------------|----------------|
| <input type="checkbox"/> | 1 year (6 issues)   | \$39 US | \$49 Can/Mex | \$64 Overseas  |
| <input type="checkbox"/> | 2 years (12 issues) | \$74 US | \$94 Can/Mex | \$119 Overseas |

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_ Country: \_\_\_\_\_

Phone: \_\_\_\_\_ FAX: \_\_\_\_\_

E-mail address: \_\_\_\_\_

Total payment enclosed: \$ \_\_\_\_\_

Payment method:

Check (drawn on US bank) or int'l money order

Mastercard  Visa  Discover

Card Number: \_\_\_\_\_ Exp: \_\_\_\_\_

Send payment to:

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