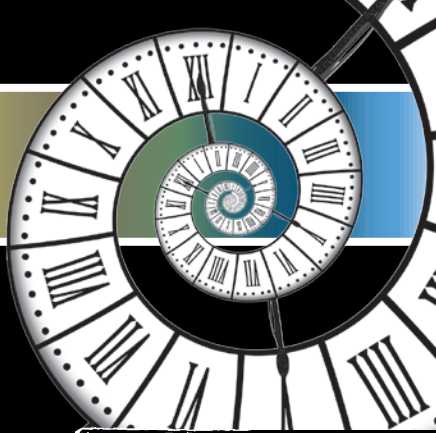


IgBILL



Ig[®] Nobel Prize Ceremony

2016

THIS YEAR'S THEME: *Time*

Twitter: #IgNobel

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.

The Twenty-Sixth 1st Annual

**Ig[®] Nobel
Prize Ceremony**

**Thursday, September 22, 2016, 6:00 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 theme of this year's ceremony is

Time

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“Ig” and “Improbable Research” and the “tumbled thinker” logo
are each reg. U.S. Pat. and Tm. Off.



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SCHEDULE OF EVENTS

Pointless Preamble

- Pre-ceremony Lobby Accordion Concert (5:00, in the lobby)
- The Whirligig of Time, on display (5:40, in the theatre)
- Ceremony begins (**6:00, in the theatre**)
- Paper Airplane Deluge #1
- The Traditional Ig Nobel “Welcome, Welcome” Speech
- Entrance of the New Winners
- Introduction of the Nobel Laureates and other Ignitaries

Everything Else**

- **Awarding of the 2016 Ig Nobel Prizes*** (weather permitting)
- ***The Last Second***: A Mini-Opera in 3 Acts*
- The 24/7 Lectures
- Introduction of Some Past Winners
- Paper Airplane Deluge #2
- The Tick Tock Toe Competition
- Other Things*
- The Traditional Ig Nobel “Goodbye, Goodbye” Speech
- Disappearance of the Audience

** scattered throughout the evening*

*** but maybe in some different order*

Paper Airplanes

In the interests of safety and recycling, there will be two (2) special paper-aeronautic moments tonight: one at the ceremony’s beginning, the other at the midpoint.

Please hold your paper airplanes in readiness. Then fly them only – and profusely, to the point of deluge – during those two special moments. Please AIM FOR SAFETY!

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



Roy Glauber, Ig Nobel paper airplane sweeper and Nobel laureate (Physics, 2005).

Pre-Ceremony: **mini-Quasi-Events**

(One in the lobby, then another the theatre)

Before the ceremony, watch for two special mini-quasi-events. At 5:00, in the lobby, the **Boston Squeezebox Ensemble (BSE)** will play a Timely Concert, insinuating strangely familiar tunes into your consciousness.

At 5:40, more or less, in the theatre, Majordomo Gary Dryfoos will assemble on stage, where things might happen around, above, and behind him.

This Year's Theme

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

Live Webcast

Tonight we will be joined from afar, in spirit and electro-mechanically, by teeming hordes watching via the Internet. The Ig Nobel Prize Ceremony has been webcast annually, beginning in 1995 — one of the very first events of any kind, ever, to be webcast. Very special thanks to **The Harvard Extension School** and to **CS-50** for helping make this year's webcast happen. Video highlights of many past ceremonies are online at **www.improbable.com**.

Celebrity Bacteria

The theme of the 2010 ceremony was Bacteria. Several trillion celebrity bacteria were seated in or on the audience. Many of them are still here. See if you can spot them.

The Ig Informal Lectures!

SATURDAY afternoon, Sept 24, 2016, 1:00 pm

MIT Building 26, Room 100
60 Vassar Street, 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 2016 Ig Nobel Prize winners**.

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

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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

Ig Nobel Facilitator: Julia Deter

Opera Arranger/Orchestrator/Stage Director: Maria Ferrante

Opera Assistant Director: Robin Abrahams

Assistant Stage Manager: Linda Brennan

Master Stagehand: Rob Sanders

Stagehand: Arthur Kautz

Technical Assistant: Doug Faunt

Production Assistants: Roger Kautz, Karen Kautz

Opera Rehearsal Pianist: Yulia Yun

Director of Improbable Engineering: Quentin Smith

Writers: Marc Abrahams, Alice Shirrell Kaswell, and friends

Ig House Band: Nicholas Carstoiu and the Ig Leaves

Boston Squeezebox Ensemble: Dr. Thomas Michel

Lurking Presences: Robin Abrahams, Stanley Eigen

Lighting & Technology: Holly Gettings, Hunter Heinlen

Props and Scenery: Eric Workman

House Sound: David Nickerson, Bay State Sound

Sound Recording: Miles Smith, Frank “Barefoot” Cunningham

Slide Show: Jack Dietz, Geri Sullivan

Prize & Props Creation: Eric Workman

Sponsorships Coordinator: Heidi Clark

Provisionary Logisticians: Gus Rancatore and Corky White

HRSFA Coordinator: Mary Beth Schleicher

HRSFS Coordinators: Person Unnamed

Grand Panjandrum of the Delegations: Louise Sacco

Videography: Seven Generations Video, Bruce Petschek, Brian Galford, Don Schechter, Jon Schedler, Trevor Chamberlain, Cody Signore

Lead Diplomats: Susan Kany, Dany Adams

Corps d'Esprit Diplomatique: Gus Rancatore, Corky White, Persis Thorndike, et al.

Liaison to the Ig Glorious Persons:

Green Room Oracles: Maria Eliseeva, Heidi Clark

Press Wranglers: Stefanie Friedhoff, et al.

Photographers: Alexey Eliseev, Mike Benveniste

Ig Informal Lectures (Saturday) Coordinator: John Jenkins

Ig Nobel Webmaster: Julia Lunetta

Artwork & Logos: Geri Sullivan, Lois Malone

IgBill Design and Layout: Geri Sullivan

Master of E-Bookery: Lauren Mauer Trew

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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)

Eric Maskin (Economics, 2007)

Jerome Friedman (Physics, 1990)

and perhaps some others

Welcome Welcome Speaker: Jean Berko Gleason

Leap Second Speaker: Jenny Hoffman

24/7 Lecturers: Patricia Brennan, Nicole Sharp, Rich Roberts, Dudley Herschbach

Opera Soloists: Maria Ferrante, Scott Taylor

Opera Orchestra: Patrick Yacono, Dr. Thomas Michel

Opera Narrator: Karen Hopkin

Opera Non-Soloists: The Clock Chorus, abetted in Act 3 by the Nobel laureates

Pre-Ceremony Lobby Concert: Boston Squeezebox Ensemble (Dr. Thomas Michel, Colin Ferguson, Patrick Yacono, Ted Sharpe, Betty Widensky, Marié Abe, et al.)

Mic Monkey: Edgar B. Herwick III

Human Twitterer: Richard Baguley

Delegations and Opera Announcer: Karen Hopkin

Human Spotlights: Jim Bredt, Katrina Rosenberg

Human Aerodrome: Eric Workman

Referee: Mr. John Barrett

NSFW Indicator Monitor: Noted New York Attorney William J. Maloney

New York Attorney William J. Maloney: Himself

Majordomo: Gary Dryfoos

Minordomos: Julia Lunetta, Peaco Todd, Emma Liddell, Sylvia

Rosenberg, Eliza Kosoy, Chris Deter, Natasha Rosenberg, Pooja Usgaonkar

Performing Chemists: Joost Bonsen, Daniel Rosenberg, Michael Skuhersky

Performing Props Master: Eric Workman

Hecklers: You, the audience

Goodbye Goodbye Speaker: Jean Berko Gleason

Special Thanks to...

Sid Abrahams, Jackie Baum, Bob Bartosch, Tina Bowen, Eric Engel, Jesse Eppers, Melissa Franklin and the Harvard Physics Department, Martin Gardner, Holly Gettings, Jason Govostes, Katherine Griffin, Tom Lehrer, Maggie Lettvin, Ilya Luvish, Chris McManus, Lois Malone, Milo, Kees Moeliker, Toshi Nakagaki, Regular Noetzi,** Lisa Oberzaucher, The Flying Petscheks, Ruth Polleys, Harriet Provine, Gus and Mimi Rancatore and Toscanini's Ice Cream, The Flying Rosenbergs, Jonathan Salz, Sanders Theatre, Geri Sullivan, Ray Traietti, Joe Wrinn and Howard Zaharoff.

** Name misspelled.

A Wedding Anniversary

The 2001 Ig Nobel Prize ceremony included a wedding — the first wedding ever held in historic Sanders Theatre, and also the briefest (the entire ceremony happened within a span of sixty seconds). The bride and groom, Lisa Danielson and Will Stefanov, were and are NASA scientists. They are returning to the ceremony tonight, to celebrate their fifteenth wedding anniversary.



The Last Second

The Words: **Marc Abahams** wrote the story and lyrics. This is his 21st Ig Nobel opera libretto.

The Music: The tunes were composed, in advance, by **Gaetano Donizetti, Camille Saint-Saëns, Modest Mussorgsky, and Frédéric Chopin**, none of whom is able to join us this evening.

Tonight's performance:

Opera director: **Maria Ferrante**

Assistant director: **Robin Abrahams**

The soloists: **Maria Ferrante** and **Scott Taylor**.

The Clock Chorus: Ellen Friend, Abby Schiff, Jean Cummings, Sue Wellington, Daniel Rosenberg, Kevin McCaughey, Michael Skuhersky, Ted Sharpe (chorus wrangler), John Jarcho, Fred Tsai, Erika Hutchinson, Jan Hadland, Kettly Benoit The chorus ranks will be swelled, in Act 3 of the opera, by the **Nobel laureates**.

The orchestra: The singers are backed by an all-star, two-person bio-timely orchestra, “The Forces of Nature”:

Piano: **Patrick Yacono** (Harvard Medical School [HMS] biomedical researcher)

Accordion: **Thomas Michel** (HMS Professor of Medicine)

Follow along on screen and in print. Libretto starts on page 15.

Tonight's premiere of the mini-opera “The Last Second” includes a special (and timely!) appearance by one of the scientists who control the world's master clocks and decide when and how to create leap seconds: **John Lowe** is leader of the Time and Frequency Services group at the National Institute of Standards.

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:

- **Patricia Brennan**
TOPIC: DUCK GENITAL MORPHOLOGY
- **Nicole Sharp**
TOPIC: FLUID DYNAMICS
- **Rich Roberts**
TOPIC: CLOCK GENES
- **Dudley Herschbach**
TOPIC: TIME

...and perhaps one or two others.



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See more bad art
in the book

**The Museum
of Bad Art:
Masterworks**



Public Radio Broadcast

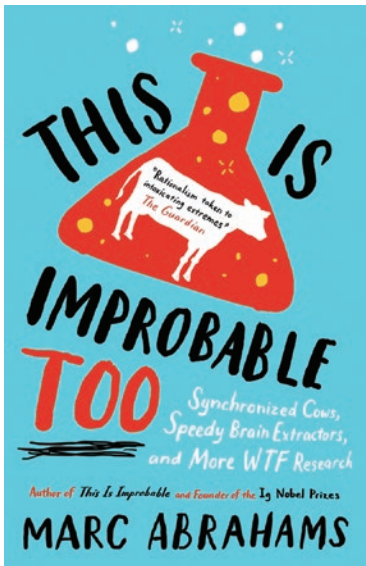
On the day after Thanksgiving, listen to the traditional Ig Nobel Broadcast on Public Radio's *Science Friday* with Ira Flatow. Many of the previous year's Ig broadcasts are at www.ScienceFriday.com. You can see video highlights of most of the past ceremonies at www.improbable.com.

Harvard-Radcliffe Science Fiction Association

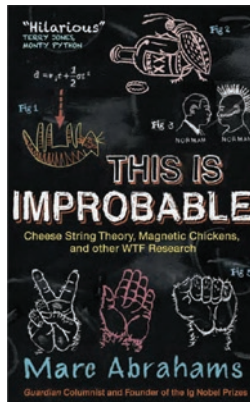
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Theoretically Proud Experimental Co-Sponsors
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This is Improbable AND
This is Improbable Too
by Marc Abrahams



*Built to
be read
aloud!*

“Marc Abrahams is a perfectly calibrated filtration system into which all of science is poured and out of which comes pure, giddy goofball delight. This book is a delicious, addictive treat.”

—Mary Roach, author of
Stiff and Packing for Mars

Libretto: “The Last Second”

A new mini-opera, with story and words by Marc Abrahams

CHARACTERS:

- The TIMEKEEPER, the scientist who runs the scientific office that controls the world’s master time clock. (That office, among other things, administers leap seconds.)
- The REPORTER who comes into this wanting to write a news report about the Leap Second.
- The chorus of CLOCKS.

THE PLOT OF THE OPERA: Tonight’s opera is all about a leap second. Well... more than one leap second. The scientist in charge of the world’s Master Time Clock, aided by a naïve journalist, comes up a clever idea: if someone were to create an EXTRA leap second — and not tell anyone about it — that someone could plan and carry out all kinds of financial crimes — all during that single, un-announced extra leapsecond — and in the space of that one second become unthinkably wealthy.

Alas... something goes wrong with the computer program that controls the master clock. In addition to adding one EXTRA leap second, the program mistakenly keeps on adding extra leap seconds, unstoppably.

This causes massive panic, and massive problems, around the world. It also causes the scientist and the journalist to grow wealthier and wealthier, every second. In the opera’s finale, they panic, then relax, then panic... and then decide to relax and make the best of it.

ACT 1

[MUSIC: “Chacun le sait” from *La Fille du Régiment*, by Donizetti]

REPORTER:

You got a sec?

I need to check:

What is the purpose of the leap second?

Why, why on earth?

What is it worth?

But! Tell me first, how is the second reckoned?

TIMEKEEPER:

When time goes bad

That’s what we add.

Just give me a min —

I’ll make your head spin!

Each leap second will,

Well, make time stand still....

When the moon and the earth waltz around in space,

Well, the seas on the earth cannot quite keep pace.

So the spin of the earth slightly slows,

And it can’t keep up with our clocks,

So we do something unorthodox!

CLOCKS:

What the hell? What the hell?

We are slightly off.

Like a burnt caramel,

Like a sneeze or cough.

Double TICK, Double TOCK, if we must.

Add a second to adjust!

Add a second to adjust!

TICK. Second. TOK. Second.

ONE OF THE CLOCKS: Precisely! Precisely!

TIMEKEEPER:

Why, yes, I could... OH, YES, I COULD!

Let me speculate / 'cause you've beckoned.

What if WE knew — JUST me and you.

That there would be a SECRET extra second.

What could we do, secretly, we two — Do with all that time?

Here's a paradigm: We could turn to crime....

Trading stocks happens now at a fur'ious rate.

In a sec, we can vastly manipulate

All the stocks on the New York Exchange.

No one will know that we've cleaned their clocks —

That we've done something unorthodox!

CLOCK CHORUS:

What the hell? What the hell?

We are slightly off.

Like a burnt caramel,

Like a sneeze or cough.

Double TICK, Double TOCK, if we must.

A-a-add a second to adjust!

A-a-add a second to adjust!

After TICK, after TOK, add an ex-tra TICK... also an extra TOCK!

ACT 2

[MUSIC: "Danse Macabre" by Saint-Saëns]

CLOCKS: TOK, TIK, TOK, TIK... [etc.]

TIMEKEEPER: Contemplate a twist to the special software for manipulating the master clock...

REPORTER: Doing something strange to the special software for manipulating the master clock?

TIMEKEEPER:

The scientific entity

that o-oversees the OFFICIAL time

Is chaired by — guess who? — little me,

who o-overlooks superficial crime.

REPORTER:
Whatcha gonna do?
How ya gonna do it?
Whatcha gonna do?
Whatcha gonna do?

TIMEKEEPER:
What I gonna do!

REPORTER:
Whatcha gonna do?
How ya gonna do it?
Whatcha gonna do?
Whatcha gonna do?

TIMEKEEPER:
When the moment comes
When I add a leap
Second to the clock
I will add in TWO
Seconds to the clock
Two, two, two, TWO!

REPORTER: TWO, two, two, TWO!!

BOTH: Two, two, two, two, two-oo-oo-oo!

Add a second sec—
Add a second second second sec!

Add a second sec—
Add a second second second sec!

Money, money, money!
Make a trillion bucks. Double trillion bucks. Triple trillion bucks. Trillion trillion bucks.
And all in just — in just a second.

REPORTER:
What you gonna do, WITH a second second?
What you gonna do, WITH a second sec?
What you gonna do, WITH a second second?
What you gonna do, WITH a second sec?

TIMEKEEPER:
Make a million trades, in financial markets.
We will sneakily,secretly invest.
Make a million trades, in financial markets.
Nobody at all will have even guessed.

CLOCKS (to each other, unhappily):
We clocks — we clocks were always told
That time waits for no one...

REPORTER (to TIMEKEEPER): You are so bold!

CLOCKS: That no one could manipulate...

TIMEKEEPER: Hey, let's beat the clock. Let's go "SECOND-rate"!
When no one knows the things we know,
when no one gives a second thought,
We will buy and sell —
Seeing how to tell
What the price will be
'Fore the others see
Anything at all.
That's the second which...
will make us rich.

TIMEKEEPER: Do ya got the time?

REPORTER: Yeh, I got the time!

BOTH: It's time! It's time! It's time!

TIMEKEEPER: It's time to make the time!

REPORTER: Time to make the time!

TIMEKEEPER: Get set!

REPORTER: I'm set!

TIMEKEEPER: Count down!

REPORTER: Count down!

Tee minus ten!

Tee minus nine!

Tee minus eight!

CLOCKS:

TOK, TICK.

TOK, TICK.

TOK, TICK.

TOK, TICK.

TOK, TICK.

TOK, TICK.

TOK... TOK... TOK... TOK... TOK... TOK... TOK... TOK... TOK...

ACT 3

ACT 3, PART 1

[MUSIC: 'Promenade' from "Pictures At an Exhibition," by Mussorgsky.]

CLOCKS:

Time has gone very wrong.

Very wrong! Very wrong!

TOK! TOK! TICK! Yuck!

Time has gone very wrong.

Time has stopped. Time has gotten stuck.

Let us TOK about TICK, TICKing off the whole damn world.

Let us TOK about how time got twisted, and how time has got curled.

Each second, each and every second, each and ev'ry one, on the face of ev'ry timepiece
in the world, has gotten stuck. Got stuck. Got stuck.

Time is standing still, standing still.

All the airplanes — ev'ry plane in the air, ev'rywhere — will not ever land. But then they will.

Also, many of the children in school are enraged. That's cause this day will not end.

What's more, almost all the teachers are even more distraught.

Also, the GPS system has stopped.

ACT 3, PART 2

[MUSIC: Chopin Waltz in E flat major ('Grande Valse Brillante')]

[THE TIMEKEEPER IS ALONE. ASLEEP, SITTING ON A CHAIR.]

CLOCKS:

DING! DING-A-DING! DING-A-DING! DING-A-DING! DING-A!

Time to awake! Time to awake! Time to awake!

You're dreaming! Dreaming! It's just a bad dream!

Time to awake! Time to awake! Time to awake!

You're dreaming! Dreaming! It's just a bad dream!

Time... time...

Time to wake up!

You're dreaming! You're dreaming! It's just a bad dream!

DING! DING-A-DING-A!

Nothing's wrong! Nothing's wrong! No-o-othing!

'Twas only a dream. No one thinks you're a demon.

Nothing's wrong! Nothing's wrong! No-o-othing!

'Twas only a dream. No one thinks you're a demon.

DING! DING-A-DING-A!

ACT 3, PART 3

[MUSIC: 'Promenade' from "Pictures At an Exhibition," by Mussorgsky.]

CLOCKS:

DOOR BELL! DOOR BELL! DOOR BELL! DOOR BELL!

DOOR BELL! Open the door! Get the door! Some one is here!

[REPORTER enters.]

REPORTER:

Hey, wake up.

Don't pretend, don't pretend

that nothing changed.

It's YOUR fault

Ev'ry clock in the world is disarranged.

You got fired from your job. You got fired. But more pointedly,

A million people hate your guts, million people hate your guts and want you dead.

TIMEKEEPER: I'm sorry. I am sorry.

REPORTER: I am sorry, too.

BOTH: We are so-o-o-ry.

TIMEKEEPER: But now...

REPORTER: But now? What to do? But now? What to do?

TIMEKEEPER: Got a second? Got a second? Got a second?

REPORTER: We have time on our hands.

CLOCKS: TOK TOK

BOTH: What a perfect time for crime! Time for crime!

CLOCKS: TOK TOK

BOTH: Time for crime!

CLOCKS: TOK TOK

BOTH:

Some day we will repent, will repent some year, some time!

But right now is the perfect time for crime!

ACT 3, PART 4

[MUSIC: Chopin Waltz in E flat major ('Grande Valse Brillante')]

TIMEKEEPER: 'Kay. Okay. Okay! OKAY!

EVERYONE:

Time! Time! Time for crime!

Time! Time! Time! Time!

Time! Time! Time for crime!

TOK! TOK! TOK! CRIME!

TOK! TOK! TOK! TIME!

CRIME! TIME! CRIME! TIME! CRIME! TIME! CRIME!

Improbable Research Weekly Podcast

CBS is distributing the Improbable Research podcast, both on the CBS Play.it web site, and on iTunes.



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

CHEMISTRY PRIZE [AUSTRALIA, USA] — Callum Ormonde and Colin Raston [AUSTRALIA], and Tom Yuan, Stephan Kudlacek, Sameeran Kunche, Joshua N. Smith, William A. Brown, Kaitlin Pugliese, Tivoli Olsen, Mariam Iftikhar, Gregory Weiss [USA], for inventing a chemical recipe to partially un-boil an egg.

PHYSICS PRIZE [USA, TAIWAN] — Patricia Yang, David Hu, Jonathan Pham, and Jerome Choo, for testing the biological principle that nearly all mammals empty their bladders in about 21 seconds (plus or minus 13 seconds).

LITERATURE PRIZE [THE NETHERLANDS, BELGIUM, SPAIN, AUSTRALIA, CANADA, USA] — Mark Dingemans, Francisco Torreira, and Nick J. Enfield, for discovering that the word “huh?” (or its equivalent) seems to exist in every human language — and for not being completely sure why.

MANAGEMENT PRIZE [ITALY, SINGAPORE, UK, INDIA, FRANCE, LUXEMBOURG, GERMANY, JAPAN USA] — Gennaro Bernile, Vineet Bhagwat, and P. Raghavendra Rau, for discovering that many business leaders developed during childhood a fondness for risk-taking, when they experienced natural disasters (such as earthquakes, volcanic eruptions, tsunamis, and wildfires) that — for them — had no dire personal consequences.

ECONOMICS PRIZE [THAILAND] — The Bangkok Metropolitan Police, for offering to pay policemen extra cash if the policemen refuse to take bribes.

MEDICINE PRIZE [JAPAN, CHINA, SLOVAKIA, GERMANY, US, UK] — Awarded jointly to two groups: Hajime Kimata; and to Jaroslava Durdiaková, Peter Celec, Natália Kamodyová, Tatiana Sedláčková, Gabriela Repiská, Barbara Sviežená, and Gabriel Minárik, for experiments to study the biomedical benefits or biomedical consequences of intense kissing (and other intimate, interpersonal activities).

MATHEMATICS PRIZE [AUSTRIA, GERMANY, UK] — Elisabeth Oberzaucher and Karl Grammer, for trying to use mathematical techniques to determine whether and how Moulay Ismael the Bloodthirsty, the Sharifian Emperor of Morocco, managed, during the years from 1697 through 1727, to father 888 children.

BIOLOGY PRIZE [CHILE, USA] — Bruno Grossi, Omar Larach, Mauricio Canals, Rodrigo A. Vásquez, José Iriarte-Díaz, for observing that when you attach a weighted stick to the rear end of a chicken, the chicken then walks in a manner similar to that in which dinosaurs are thought to have walked.

DIAGNOSTIC MEDICINE PRIZE [CANADA, UK, NEW ZEALAND, US, SAUDI ARABIA, BELGIUM, DUBAI, INDIA, SOUTH AFRICA, SYRIA, CHINA] — Diallyh Karim, Anthony Harnden, Nigel D’Souza, Andrew Huang, Abdel Kader Allouni, Helen Ashdown, Richard J. Stevens, and Simon Kreckler, for determining that acute appendicitis can be accurately diagnosed by the amount of pain evident when the patient is driven over speed bumps.

PHYSIOLOGY and ENTOMOLOGY PRIZE [PANAMA, USA, CANADA, UK, THE NETHERLANDS] — Awarded jointly to two individuals: Justin Schmidt, for painstakingly creating the Schmidt Sting Pain Index, which rates the relative pain people feel when stung by various insects; and to Michael L. Smith, for carefully arranging for honey bees to sting him repeatedly on 25 different locations on his body, to learn which locations are the least painful (the skull, middle toe tip, and upper arm). and which are the most painful (the nostril, upper lip, and penis shaft).

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

SANDERS THEATRE INFORMATION

Sanders Theatre is managed by
Memorial Hall/Lowell Hall Complex at Harvard University
45 Quincy Street, Room 027, Cambridge, MA 02138
T 617.496.4595 | F 617.495.2420 | memhall@fas.harvard.edu

For history of the building, visit www.fas.harvard.edu/memhall

RESTROOMS are located on the lower level.

LATECOMERS will be seated at the discretion of management.

PHOTOGRAPHY AND RECORDING of any kind is not permitted in Sanders Theatre.
Equipment may be confiscated.

Lost and Found Call 617.496.4595 or visit Memorial Hall 027.
Harvard University is not responsible for lost or stolen property.

PARKING

There is no parking at Sanders Theatre.

Free parking for most events is available at Broadway Garage, corner of Broadway and Felton Street, from one hour pre-performance to one hour post. Parking for some student events will be at 52 Oxford Street Garage.

Access for Patrons with Disabilities

Accessible seating can be arranged through the Box Office. Sanders Theatre is equipped with Assistive Listening Devices, available 30 minutes prior to events.

Accessible parking for events: There is no parking at Sanders Theatre itself. Patrons may be dropped off in the circle on the Kirkland Street side of Sanders Theatre near the accessible entrance. We encourage patrons to park at either the Broadway Garage or 52 Oxford Street Lot. The Broadway Garage is fully accessible and there are curb cuts at all crosswalks between the garage and the Sanders Theatre.

If necessary, a limited number of accessible parking spaces may be available in nearby location by advance arrangement. It is extremely difficult to honor requests received less than 5 business days prior to an event. Please plan ahead.

To arrange for an Accessible Parking Space in a nearby parking lot, contact:

1. Harvard University Parking Office at 495-3772 AND/OR
2. University Disability Services at 495-1859, Mon-Fri 9am-5pm
or email: disabilityservices@harvard.edu

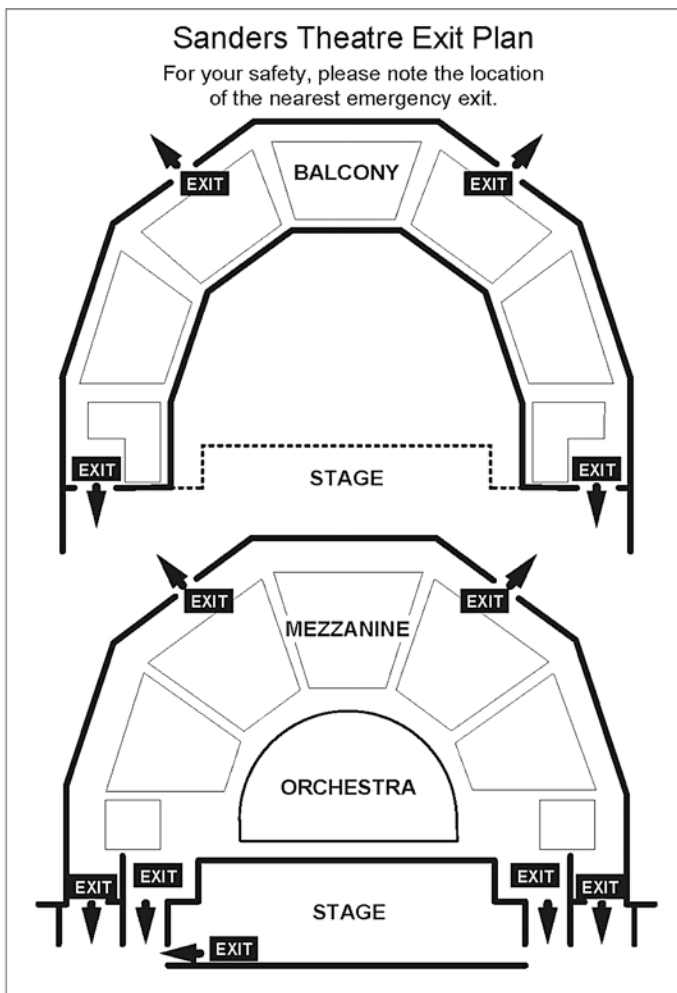
THE HARVARD BOX OFFICE

Advance Sales: Holyoke Center Arcade, Harvard Square
1350 Massachusetts Ave. 617.496.2222; TTY: 617.495.1642

Calendar of events, online sales and current hours: www.boxoffice.harvard.edu

Pre-Performance Sales: Sanders Theatre

On performance days: Opens at noon for matinees and 5pm for evening performances.
Closes 30 minutes after curtain.



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