The Laboratory at Harvard
Fall 2011 Exhibition

The Laboratory at Harvard serves as a curricular, exhibition, and event space for idea development within and between the arts and sciences, and provides a forum for creative expression and dialogue between students, faculty, visiting artists and scientists, and the public.

We welcome you to join us for the biggest event of our 2011/2012 season!

www.thelaboratory.harvard.edu
Program

Friday, September 23rd, 2011
6-9PM
Northwest Labs, Lower Level
52 Oxford St.
Cambridge, MA 02138

Light refreshments served.
*The entire program is FREE and open to the public*

6:00PM /// DOORS OPEN
Cultural Exhibition and Learning
Doors open, cocktails served and the opportunity to see interactive installations of 11 student ideas from Harvard and around the world. The projects range from water being harvested from fog to plastic that dissolves and turns into plants!

7:00PM /// LEARNING WITH KENTRIDGE—THOUGHTS ON EXPERIENTIAL EDUCATION AT HARVARD
Colloquium and Film Screening
A colloquium on experiential education moderated by Harvard Professor David Edwards, Faculty Director of The Laboratory at Harvard, and the US premiere of a short film by South African artist William Kentridge that was created out of a collaboration between Kentridge and Harvard Professor Peter Galison in a joint exploration of changing notions of time.

8:00PM /// EXHIBITION AND CELEBRATION
Exhibitions Continue
Refreshments and music from the Whiskey Barons (DJ Flavorheard), cocktails and exhibitions continue!

Northwest Building | 52 Oxford St. | Cambridge, MA 02138
About the Film

The Lab @ Harvard’s Fall Exhibition will screen the US premiere of William Kentridge’s 11-minute film *The Refusal of Time, Prologue--Anti-Mercator*, with music by Philip Miller and film editing by Catherine Meyburgh.

Known for his animated films made by repeated drawing and erasure of charcoal drawings, William Kentridge is a South African artist with international repute. His visual work, poetic and politically engaged, denounces the evils of apartheid and colonialism through symbolic themes such as equality and justice. Kentridge’s creative process takes him across multiple media including printmaking, collage, sculpture, performance art, theatre and opera.

His collaboration with Peter Galison, Pellegrino University Professor in History of Science and Physics at Harvard University (and author of the famous essay *Einstein’s Clocks, Poincaré’s Maps: Empires of Time*), was curated by Lab @ Harvard partner Le Laboratoire. The partnership between Kentridge and Galison highlights creative development at the frontiers of art and science.

According to Kentridge, “The aesthetic and metaphoric possibilities unleashed by the work of Peter Galison are extremely rich. The pre-history of relativity, with its mixture of scientific and philosophical questions is still intriguing, and the mechanics of these questions provide a lot of the visual material for exploring the metaphoric implications. The themes of simultaneity, of time slowing down and speeding up, synchronization and its lack, are all good, and suggestive of many routes to follow. At the moment I’m interested in something which floats between being a performance piece or an installation, between an opera and a lecture, something which has a performance component, but remains afterwards”.
About the Ideas

BLUE
Razan Alazzouni, Deem AlBassam, Azam AlFayez, Sausan AlKadi
BLUE is an engineering fashion company that is focused on a social and ecological approach. It is a partnership LLC that shares its ownership with the community, with 10% equity going to our fifth founder, which is a foundation that builds wells for communities that need clean water. This is a buy one get one social enterprise.

A’DOME
Ahmad Al-Naimi, Alanod Alhajri, Diyanah Iskenderani
Our aim is to create a new source of water by installing a device on the roof of households that will capture water out of air by means of condensation, as well as creating a cultural trend in the coastal regions of MENA area to expedite the adoption rate. A’DOME comes from the Keystone project in Saudi Arabia.

FUSO
Theiss Boudec, Alexandre Sourzac Lami, Wladimir Patricot, Bastien Perdriault, Sophie Yana
Fuso is a water purification device that intends to supply drinking water on an individual scale from any water source. Environmentally friendly, the device is constructed entirely out of recyclable and biodegradable materials. Its intuitive and straightforward design allows Fuso to easily integrate into the lives of people from regions with inadequate access to potable water. Fuso is one of the winners of the Artscience Prize in Paris.

TAPMINDER
Yannis Bekel, Jun Boudrier, Antoine de Caminel, Joachim Cohen, Guillaume Thuau
Tapminder is a small device that fits easily onto any household water faucet or valve. Tapminder gradually inflates to reflect the amount of water used, and thereby serves as an aesthetic gauge of water consumption. Tapminder is one of the winners of the Artscience Prize in Paris.
**CABLE&GRAIN**
Will Burke, Gary Carlson, Veda Eswarappa, Anugraha Raman
Cable&Grain combines off-the-shelf technology with original African craft to create a premium cell phone docking station with African flair. All of our products will be handmade by local artists through partnerships with community art organizations. We’ll provide jobs and visibility to these artists, while at the same time support the organizations that allowed them to start their careers. We are developing better prototypes and continuing to find interested craftsmen with whom we can partner.

**PROJECT ARK**
Bethina Liu, Sarah McCuskee
Project Ark is dedicated to helping flood victims go beyond simple survival. By distributing the Ark—an inflatable flood survival device that provides transportation, drinking water and shelter to stranded families—we hope to provide flood victims with the means to obtain not only humanitarian aid but also self-empowerment during flood seasons.

**NEIGHBOURLABOUR**
Spencer Horne, Laura Jaramillo, Ken Liu
NeighbourLabour is platform that aims to combine online and mobile technology to simplify the search for informal labor. Job seekers start by creating a profile either online or via SMS. The profile will be then be made available to employers looking for workers. Employers also start by creating a profile online. Once a profile has been created, you will have access to job candidates in your area. Once the employer and employee use the service, they will be asked to review each other- the review is used as a source of guidance for future job seekers and employers.

**USELESS**
Talal Alhammad, Caroline Quazzo, Srinidhi Reddy, Marika Shiori-Clark, Alexandre Terrien
As a solution to the alarming problem of plastic bag waste in the world, UseLESS is a "plastic" bag that would dissolve into a secondary use, such as soap or laundry detergent or seeds.

**AMANZI**
Aisha Townes, Celestine Warren
Amanzi combines water purification and flavoring in an easy to use product. The user adds a tea-like satchet to their water and the purification chemical and
the flavoring dissolves into the water. Our idea also creates sustainable job development in places in which the flavorant is made. For example, honeybush tea from South Africa is one potential flavor and Amanzi will create jobs for small honeybush tea farmers in South Africa.

FOGUA
Enez Ayaz, Adrian Campero, Emma Franklin, Alper Yildrim
We propose a glass bottled water business called ‘Fogua: clean water from fresh air’. We will distribute fog water to high-end niche markets throughout the world and provide business and an extra water source for these disadvantaged rural communities. The community members will become more invested in the longevity of fog harvesting as a solution and will have the business incentive to maintain the water supply materials. Supporting Fogua supports the small communities that collect the water. It helps create employment and water collection opportunities worldwide.

ARTLEDE
Darcie Dieman
The big idea of ArtLede is to look at the international art response to current events and world issues. How are artists using their creative medium to respond to or comment on what the public is reading in the daily headlines? Such artistic pieces will be featured on the ArtLede website and artists will have the chance to earn a commission on their sales. Furthermore, in the long-term, there is potential to partner with NGOs and non-profits whose relief efforts align with ArtLede’s mission.
The Laboratory at Harvard

The Lab @ Harvard kicks off its debut year as a curricular program of the Harvard School of Engineering and Applied Sciences with its annual Fall Exhibition of works-in-progress on September 23rd, 2011. The Lab is an experiential education and exhibition program where Harvard students, in collaboration with students, artists, designers, and scientists from around the world, dream up projects with global social impact at frontiers of science.

Each year, The Lab exhibits the work of an internationally acclaimed artist or designer alongside early-stage work of students. The program is catalyzed by a summer innovation workshop at our partner cultural center in Paris, Le Laboratoire, which brings Harvard students together with students from a network of similar artscience labs around the world (Dublin, Paris, Singapore, Dhahran, Oklahoma City, Boston, Minneapolis), and has led in recent years to the exhibition and development of innovations ranging from breathable foods to soccer balls that generate energy with a kick.

This year’s exhibition highlights the US premiere of an original film by South African artist William Kentridge, developed for The Refusal of Time exhibition at Le Laboratoire in Spring 2011 as part of a collaboration between Kentridge and Harvard Professor Peter Galison. The project explores changing notions of time—from absolutes to relativity and black holes—and will continue to develop leading up to dOCUMENTA (13) in Kassel in 2012. Student design projects exhibited this year all originated with the annual educational theme of The Future of Water, and range from fog-harvested water to plastic that turns into plants. Multiple Harvard student projects will be exhibited alongside selected projects from partner programs in Paris and Saudi Arabia.

Doors open to this year’s exhibition at 6PM, followed by a colloquium at 7PM entitled Learning with Kentridge – Thoughts on Experiential Education at Harvard. Speakers will include Peter Galison, Dean of the School of Engineering Cherry Murray, and Jeffrey Schnapp with moderator David Edwards, Faculty Director of The Lab. The colloquium will be followed by the US premiere of the William Kentridge film The Refusal of Time, Prologue–Anti-Mercator and a reception and celebration starting at 8PM.
HOW TO GET INVOLVED IN THE LAB
You can get involved with The Lab in a variety of ways: come to our public events and exhibitions, enroll in one of the classes in our curricular platform, or propose an idea to us! If you are interested in idea experimentation in the arts or design at the frontiers of science and engineering, or if you have any thoughts or feedback for us, please contact us: hello.thelaboratory@harvard.edu
Let us know if you have ideas in mind – we are always looking to explore ways we can work together!

THE IDEA TRANSLATION LAB
Student ideas generated and developed with the support of the Idea Translation Lab have led to multiple companies, nonprofits, and cultural exhibitions around the world, and influenced the creative lives of scores of Harvard undergraduates. The Idea Translation Lab provides resources for student idea development in the United States and internationally. Potential breakthrough ideas are supported and fellowships are granted based on a review process and availability of funds. Current funding supports several Idea Translation Lab Fellows per year to continue pursuing the projects that they began in their courses. This can fund them to travel internationally to the destinations that make the most sense for their project, as well as a week in Paris at Le Laboratoire for the annual Idea Translation Innovation Workshop with other students and mentors from around the world. Ideas developed in the Paris workshop are later exhibited at The Lab @ Harvard.

ITL IN CAPE TOWN, SOUTH AFRICA
This year, 20 Harvard students from ES20 continued to work on their projects over the summer and 12 of the students worked in Cape Town. The Idea Translation Lab in Cape Town program is a collaboration between the Harvard Global Health Institute, the Wyss Institute for Biologically Inspired Engineering, and the Idea Translation Lab @ Harvard, led by Professor David Edwards.

This new experiential education initiative facilitates the translation and development of Harvard student ideas from the course Engineering Sciences 20: How to Create Things and Have Them Matter to South Africa and Africa. During this 6-week experiential education summer program, led by Project Manager Jessica Lin, students have the opportunity to work with the dynamic design and creative community in Cape Town to bring their ideas from their ES20 course from conception, to translation and, finally, realization, in
collaboration with our design partner XYZ Design and with University of Cape Town Engineers Without Borders students.

IDEA COURSES

[FALL] The Innovator's Practice (ES21) is a new class taught by Dr. Beth Altringer of SEAS that gives students the opportunity to develop skills in overcoming many under-represented challenges of innovation. While deepening their understanding of human behavior, and learning from experts how to collaborate effectively, negotiate strategy, plan and lead creative projects, students are engaged in their own innovation process of exploring what excites them personally, creating a project based on this, using human-centered design to create solutions that integrate into and potentially improve the lives of users, presenting their ideas to leaders, trying to create impact in the real world, and measuring and reflecting on their influence.

[SPRING] How to Create Things and Have Things Matter (ES20) is the cornerstone course of the academic platform of The Lab @ Harvard. It will be taught in the Spring 2012 by Prof. David Edwards, Lab Founder and Faculty Director, and Dr. Beth Altringer, Visiting Lecturer at SEAS. This course in aspirational design will teach students to generate, develop, and realize breakthrough ideas in the arts, sciences and engineering. The class has an annual theme, and in Spring 2012 the class will focus on ideas relating to Virtual Worlds. This past year’s (Spring 2011) theme was The Future of Water, when ES20 was co-taught by Prof. David Edwards and Prof. Rob Howe, Director of the Harvard BioRobotics Laboratory, with teaching staff Suelin Chen, Beth Altringer and Jessica Lin from the Lab @ Harvard. Groups from the 2011 class spent Summer 2011 developing their ideas further in Cambridge, Cape Town and Paris and their projects will be exhibited on September 23rd, 2011, in The Lab’s Annual Exhibition. In the past many of these ideas have turned into profitable companies, non-profit organizations or major works of art.
About The Whiskey Barons

The Whiskey Barons (aka Flavorheard) are a DJ and production duo based in Boston. The cornerstone of the Whiskey Barons' approach is to tastefully integrate classic funky sounds from around the world into modern sounding productions geared towards today's dance floors. This has resulted in a wide variety of well received originals, reworks, and edits that span the styles of Latin, African, funk, soul, disco, house, reggae, and rock. Their four vinyl releases have held top sales spots at record stores on 3 continents, and their continuous flow of digital offerings have been getting play by top DJs around the world including Gilles Peterson, Tommie Sunshine, Numark, and many more.

The Whiskey Barons apply this same philosophy to rocking parties, holding down a variety of extremely successful weekly and monthly nights for the past 8 years, which lead to a Best of Boston (DJ’s) award for 2010. The crew has shared the stage with top-notch talent such as Bon Iver, The Cool Kids, J Rocc, and more. Nike, Scion, Mountain Dew, Rockstar Games, Bodega & The Museum of Fine Arts (Boston) have all tapped the duo for special events.

whiskeybarons.com
twitter.com/whiskeybarons
soundcloud.com/whiskeybarons
The Team at The Lab @ Harvard

**Faculty Director**
Professor David A. Edwards / Harvard SEAS, Wyss Institute, Le Laboratoire

**Lab Director**
Suelin Chen, Ph.D. / Wyss Institute, GSD

**ITL Visiting Lecturer**
Beth Altringer, Ph.D. / SEAS

**Project Manager, Idea Translation Lab in Cape Town**
Jessica Lin / SEAS

**Exhibition Designer**
Brandon Bird / Brandon Bird Design

**Administrative Assistant**
Kathryn Zirpolo / SEAS

**Lab Founding Fellow**
W. Hugo Van Vuuren / SEAS, GSD

**Lab Student Fellows**
Mark Khanin
Bethina Liu
Mac McAnulty
Aisha Townes
Wenyi Dai

**Executive Committee**
Professor Venky Narayanamurti / SEAS, KSG
Dean Cherry Murray / SEAS
Dean Mohsen Mostafavi / GSD
Dean Jeremy Bloxham / FAS
Lori Gross / Provost’s Office
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Idea Translation Lab
Idea Translation Lab in Cape Town
Harvard i-lab
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The Laboratory at Harvard
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52 Oxford Street
Cambridge MA 02138
Atrium & B-1 Level

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DRIVING
From South of Boston:
Take I-93 North to exit 26 (Cambridge / Storrow Drive).
Keep left at end of ramp and take underpass to Storrow Drive.
Continue on Storrow Drive approximately 4 miles to Cambridge / Allston.
Turn right at end of ramp onto John F. Kennedy Street.
Harvard Square is approximately 0.5 mile straight ahead.
Drive through the Square past the Harvard Gate.
Where John F. Kennedy Street splits into Massachusetts Ave. and Peabody Street, bear right and proceed under the overpass.
At the first light, take a left onto Quincy Street.
At the next light, take a left on Kirkland, which turns into Oxford at right turn.
The Northwest Lab is located at 52 Oxford Street, just past the Harvard Museum of Natural History.

PUBLIC TRANSPORTATION
The nearest subway stop is the Harvard station on the Red Line. Take the Church Street exit and walk NNE through Harvard Yard to the Science Center. Then proceed away from the Science Center on Oxford St. The Northwest Building is just beyond the Harvard Museum of Natural History, on the right hand side of the street.

The subway fare is $2 (Charlie ticket required). From Logan Airport, take the Silver Line bus from your terminal to South Station (your subway ticket will cover this part of the journey as well), and then transfer to the Red Line (Inbound, towards Alewife) six stops to Harvard. For journeys from other starting points, see the MBTA subway map.

PARKING
52 Oxford Street Garage (limited spots; please contact hello@thelaboratory.harvard.edu) or metered and permit Cambridge Street Parking.