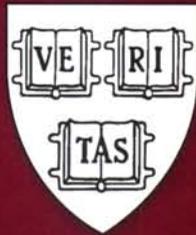


HARVARD UNIVERSITY



IT Summit

MAY 31, 2012 | HARVARD UNIVERSITY | CAMBRIDGE, MA

Presented by the Harvard CIO Council



ADDENDUM ~ AGENDA-AT-A-GLANCE

SANDERS THEATER, 45 QUINCY STREET

8:00 a.m. – Registration and Morning Refreshments	Annenberg Hall
9:00 a.m. – Anne Margulies, University Chief Information Officer	Sanders Theater
9:10 a.m. – CIO Council Panel, Discussion of Strategic Plan	Sanders Theater
10:10 a.m. – Keynote Presentation: Anant Agarwal, President, edX	Sanders Theater

CONCURRENT SESSIONS WILL BE IN FOLLOWING LOCATIONS. PLEASE SEE THE SUMMIT MAP FOR MORE INFORMATION ON BUILDING LOCATIONS.

- **CENTER FOR GOVERNMENT AND INTERNATIONAL STUDIES (CGIS) SOUTH, 1730 CAMBRIDGE STREET**
- **NORTHWEST BUILDING, 52 OXFORD STREET**
- **SCIENCE CENTER, 1 OXFORD STREET**

Exhibit Area Open	Northwest Building
11:15 a.m. – Concurrent Sessions 1	
An Introduction to IT Service Management and the IT Infrastructure Library	Science Center Hall D
SEAS Code Repository: Getting Academics to Think Like Engineers	Science Center Hall A
Library Technology in Transition: The Harvard Library from an IT Perspective	Science Center Hall B
Unifying Your Learning Environment: Lessons Learned and Best Practices	Science Center Hall E
IT Partnerships to Support a New Curriculum	Northwest Lab B108
Lessons Learned in Creating and Using the Global Classroom	Northwest Lab B101
Harvard LMS: Future Directions	Science Center Hall C
Harvard Faculty Finder: Enabling University-wide Faculty and Research Discovery	Science Center 300H
Student Employees in Higher Education IT: Indispensable or Staff Narcotic?	Northwest Lab B104
Noon – 1:30 p.m. Lunch and Networking, Exhibit Area, Exhibitor Education Sessions	Northwest Building
12:30 p.m. – Exhibitor Educational Sessions	
The Education Cloud: IT as a Service Leveraging Internet2	Northwest Lab B108
A Vision: Technology Supporting the Future of Higher Education	Northwest Lab B104

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- **NORTHWEST BUILDING, 52 OXFORD STREET**
- **SCIENCE CENTER, 1 OXFORD STREET**

1:30 p.m. – Concurrent Sessions 2	
What Would You Do with Five Million Hours of Computing and 50 TB of Storage?	CGIS South S020
The Student IT Experience Initiative – A Case Study and Roadmap	Science Center Hall D
Harvard’s University-wide Student Information Systems	Science Center Hall B
Shaping the Future of Humanitarian Action: HPCR’s Experiential Learning Lab	Science Center 300H
Research Data Sharing: Dataverse at the Library	Science Center Hall C
Course Pack to iPa®: How HGSE Went Digital	Science Center Hall E
WorldMap for Research and Collaboration – A Geospatial Approach	Northwest Lab B108
Driving Pedagogical Innovation with Technology	Science Center Hall A
Flipping the Classroom through Video Annotations	Northwest Lab B101
2:35 p.m. – Concurrent Sessions 3	
Bringing Curriculum to Life: Best Practices for Building Multimedia Content	Science Center Hall B
Going the Distance: Converting a Residential Executive Education Program into an Online Program	Northwest Lab B104
More than Email and Disk Space: Supporting Undergraduates in Building a Digital Portfolio	CGIS South S020
Teaching in the Cloud: Using IaaS in the Classroom	Science Center Hall E
From 200 to 17,000 Processing Cores in Five Years	Northwest Lab B108
Research in the Library? Informatics Opportunities for the Present and Future	Northwest Lab B101
Just One More Thing . . . Enabling Seamless Mobile Integration	Science Center Hall C
The Harvard Web Publishing Initiatives	Science Center Hall A
Enterprise Business Intelligence – Current State and Future Direction	Science Center Hall D
Classroom Response Systems at Harvard FAS: Status and Trends	Northwest Lab B106
3:40 p.m. – Reception	Northwest Building
5:00 p.m. – Adjourn	

Concurrent Sessions 3

ADDED SPEAKER: Teaching in the Cloud: Using IaaS in the Classroom

Samantha Earp, Managing Director, Academic Technology Services, Harvard University Information Technology

SPEAKER CHANGE: Enterprise Business Intelligence – Current State and Future Direction

Jason Shaffner, Director, Financial Systems Solutions, Harvard University Information Technology will replace Ian Wall

PROGRAM

8:00 – 9:00 a.m.
Registration and Morning Refreshments

ANNENBERG HALL

9:00 – 9:10 a.m.
Welcome

SANDERS THEATER

Anne Margulies, Vice President, University Chief Information Officer, Harvard University

9:10 – 10:10 a.m.
CIO Council Panel, Discussion of Strategic Plan

SANDERS THEATER

10:10 – 11:00 a.m.
Keynote Presentation

SANDERS THEATER

Anant Agarwal, President, edX

11:00 – 11:15 a.m.
Break

For a listing of exhibitor and concurrent session room locations, please see the conference addendum.

11:15 a.m. – Noon
Concurrent Sessions 1

An Introduction to IT Service Management and the IT Infrastructure Library

This session gives a high-level overview of IT Service Management (ITSM) and the IT Infrastructure Library (ITIL). We will address *WHAT* ITSM and ITIL are and *WHY* an IT organization should implement these concepts, and some ideas and recommendations on *HOW* to get started.

Brian Leishman, IT Service Management Analyst, Harvard University Information Technology

Matthew Wollman, IT Service Management Analyst, Harvard University Information Technology

SEAS Code Repository: Getting Academics to Think Like Engineers

The speaker will present a new tool designed to let students, instructors and researchers share and collaborate with source code in ways that teach academics how to think like engineers. He will discuss how this open source platform similar to github has been adapted to make homework submission like a real software engineering process. This approach encourages open collaboration

between students, and enables researchers to collaborate internally or publish online. Last, he will touch on how this technology can make a "ubiquitous home" possible at Harvard.

Robert Parrott, Director of Academic Computing, School of Engineering and Applied Sciences

Library Technology in Transition: The Harvard Library from an IT perspective

The Harvard Library is defining new strategic directions that will align the Library with 21st Century Research Needs. Technology is a key component to this ambitious agenda. Mary Lee Kennedy, Senior Associate Provost for the Harvard Library, and Tracey Robinson, Managing Director for Library Technology, will present an overview and answer questions about the reorganization of Library Technology at Harvard. The transition continues through the spring and this session will provide an opportunity for interested IT staff throughout Harvard to get an up-to-date report on organization, services and high-priority IT projects.

Mary Lee Kennedy, Senior Associate Provost for the Harvard Library, Office of the President and Provost
Tracey Robinson, Interim Managing Director for Library Technology Services, Harvard University Information Technology

Unifying Your Learning Environment: Lessons Learned and Best Practices

HBS IT was challenged with creating a new environment that leveraged technology to increase team collaboration. Teams would switch regularly and these changes had to ripple through a portfolio of solutions. Student teams and faculty cut in and across various sections, but still had to adhere to enterprise security standards – further complicating the challenge. The solution also had to guarantee this exchange of information was seamless to users. HBS IT will explore the architectural approach used to achieve its goal, including best practices and lessons learned.

David Aznavoorian, Director, Database Services and Information Security, Harvard Business School

David Goodrich, Director, Application Development, Harvard Business School

IT Partnerships to Support a New Curriculum

Harvard College is migrating from the undergraduate Core Curriculum to a new Program in General Education. In this presentation, learn how HUIT's Academic Technology Group partners with faculty,

students and colleagues in the libraries, museums, teaching and learning center, writing program, undergraduate education office and others to help design new courses and improve existing instructional services.

Ramona Islam, Curricular Design and Research Librarian, Harvard Library

Stephanie Kenen, Associate Dean of Undergraduate Education / Administrative Director of the Program in General Education, Faculty of Arts and Sciences

Katie Vale, Director, Academic Technology Services, Harvard University Information Technology

Akiko Yamagata, Museum Educator, Harvard Art Museums

Lessons Learned in Creating and Using the Global Classroom

Going to class no longer means going to a classroom on campus. Videoconferencing brings faculty and lecturers into the room, while video streaming, mobile video conferencing and collaboration tools allow students at a distance to actively participate. The technology is daunting but, as we have learned, it is only part of the puzzle. In this session, we will share the lessons we have learned in designing, and then teaching and learning in Harvard's global classrooms.

Len Evenchik, Assistant Dean for Distance and Innovative Education, Harvard University, Division of Continuing Education

Bill Robinson, Ph.D., Software Architect and Manager of Software Development Harvard University, DCE Distance Education Program

Harvard's LMS: Future Directions

The emerging IT strategic plan developed by the CIO Council recognizes the learning management ecosystem as a key asset in enabling the university's goals in teaching and learning. In this session, we'll provide an update on HUIT's overall academic technology directions, with particular attention to the centrally-provided LMS and the process for moving that forward, in partnership with the schools.

Paul Bergen, Director, iCommons, Harvard University Information Technology

Samantha Earp, Managing Director, Academic Technology Services, Harvard University Information Technology

Harvard Faculty Finder: Enabling University-wide Faculty and Research Discovery

This session introduces Harvard Faculty Finder (HFF). HFF indexes and links existing sources of faculty information across the University to provide an institution-wide view of the breadth and depth of Harvard faculty and scholarship and to help students, faculty, administrators and the general public locate Harvard faculty according to research and teaching expertise. The HFF web services interface enables other systems to extract data for use in other applications across the University.

Amy Brand, Assistant Provost for Faculty Appointments, Office of the President and Provost

Griffin Weber, Chief Technology Officer, Harvard Medical School

Student Employees in Higher Education IT: Indispensable or Staff Narcotic?

In *Educause Quarterly*, John Mrazek wrote, "The use of student workers was slowly destroying [his] team's reputation . . ." (Mrazek, 2003) In this session, the presenter will engage Mrazek's view of student IT staffing and offer a nuanced view of student employees' strengths and weaknesses in the Harvard University IT context. Management processes will also be introduced that can foster staffing models that are beneficial to both IT departments and their student employees.

Jared Thomas, Walk-In Support Center Manager, Harvard University Information Technology

Noon – 1:30 p.m. Lunch and Networking

EXHIBIT AREA, NORTHWEST BUILDING

12:30 – 1:30 p.m. Exhibitor Education Sessions

Searching for Search Solutions

The U.S. invests 2.68 percent of its gross domestic product on publicly-funded research and development. It is clear that academic communities and research institutions are helping to lead these efforts and drive innovation. Working with Internet2 and other national research and education networks, Dell continues to collaborate with the global research and education community to advance innovation around big data and research storage services, open source frameworks for research and academic and administrative initiatives facing institutions today. This session will

PROGRAM

discuss industry leading solutions including cloud and virtualization and efforts with the Internet2 community to even further enable the next generation of discovery.

Brett Emmerton, Director, Platform Solutions, Global Education, State and Local Services, Dell

A Vision: Technology Supporting the Future of Higher Education

Extreme pressures are facing higher education; economic constraints, accountability, scrutiny, dynamic changing learner behaviors and disruptive technology. To meet these challenges, higher education must be as innovative, dynamic and flexible as its environment. Technologies supporting higher education must integrate and aggregate the administrative, academic and research worlds into a seamless ecosystem. Insight must be embedded in processes. Deployments must be flexible and scalable. Time-to-value for IT projects must dramatically shrink. Constituents: students, faculty, researchers, staff and executives must multi-task the management of their roles and responsibilities as one. Learn how Oracle innovation is today meeting the needs of the future.

Joe Burkhart, Director Higher Education Solutions, Oracle

Cole Clark, Global Vice President, Oracle Education and Research, Oracle

1:30 – 2:15 p.m. Concurrent Sessions 2

What Would You Do with Five Million Hours of Computing and 50 TB of Storage?

This talk will present the Open Science Grid and XSEDE (Extreme Science and Engineering Discovery Environment), two NSF-funded national supercomputing environments available to the Harvard community. These projects provide access to specialized hardware for capacity computing, data processing, storage and visualization. The talk will present ongoing projects and discuss how Harvard researchers, students and instructors can leverage these resources.

Ian Stokes-Rees, Scientific Computing Consultant, School of Engineering and Applied Sciences

The Student IT Experience Initiative – A Case Study and Roadmap

This panel will discuss strategies to support "student involvement," one of HUIT's seven high-level goals. Topics to be covered include the role of the Student IT Advisory Board and student IT advisers in project planning, the collection and prioritization of student ideas and strategies to tap into student creativity and technical expertise. We will also examine how this initiative fits in with HUIT's ongoing IT service strategy to support teaching, research and learning.

Peter Baskette, Director of Service Management and Operational Integration, Harvard University

Shannon Rice, Senior Product Manager for Academic Technology, Harvard University Information Technology

Patrick Rich, Graduate Student in Linguistics / Secretary, Graduate Student Council

Kate Stanton, Assistant Dean of Undergraduate Education, Harvard College

Jim Waldo, Gordon McKay Professor of the Practice / Chief Technology Officer, Harvard University Information Technology

Harvard's University-wide Student Information Systems

The speakers will present the current initiative to develop a University-wide approach to Student Information Systems. The session will first explore the vision and strategic objectives for the project. We'll then discuss how lessons learned from recent efforts around SIS helped shape the project approach. Finally, we'll discuss the methods for ensuring cross-school and cross-functional collaboration.

Michael Burke, Registrar, Faculty of Arts and Sciences

Katie Luddy, Senior Project Manager, Harvard University Information Technology

Shaping the Future of Humanitarian Action: HPCR's Experiential Learning Lab

Over 200,000 professionals are engaged in providing emergency relief worldwide. After decades of efforts to professionalize international responses to crises, information technology has emerged as a central tool to share knowledge and perspectives across the aid industry. Through a series of twice monthly global webcasts via WebEx/Twitter, video conferencing and Basecamp for working groups and animated learning modules via Articulate, HPCR's agile team has helped to foster a global community of humanitarian professionals.

James Brockman, Distance Learning Coordinator, Program on Humanitarian Policy and Conflict Research, Harvard School of Public Health

Claude Bruderlein, Director, Program on Humanitarian Policy and Conflict Research, Harvard School of Public Health

Dustin Lewis, Program Associate, Program on Humanitarian Policy and Conflict Research, Harvard School of Public Health

Anaide Nahikian, Program Coordinator, Program on Humanitarian Policy and Conflict Research, Harvard School of Public Health

Research Data Sharing: Dataverse at the Library

The Dataverse Network is an open-source data repository developed at Harvard's IQSS which is used to publish, share, cite and archive research data. The Library and IQSS are working together to offer Dataverse to all Harvard researchers. In this talk, we will present the Dataverse Network from front to back, including: 1) examples of how it is being used at Harvard, 2) description and demo of the new metadata extensions and API recently available as part of v3.0 release; and 3) details on the hosting architecture that makes the Dataverse run. We will end with a summary of the future offerings and plans.

Gustavo Durand, Dataverse Development Manager, Institute for Quantitative Social Science

Wendy Gogel, Manager of Digital Content and Projects, Harvard Library

Bill Horka, Infrastructure Developer, Institute for Quantitative Social Science

Alex Storer, Research Technical Consultant, Institute for Quantitative Social Science

Course Pack to iPa®: How HGSE Went Digital

As part of a cross-department process improvement initiative, HGSE recently piloted its first fully digital course packs, called iPa®s, for several courses with

the goal of moving all course reading materials online for fall 2012. Learn how HGSE went green, saved money, became more responsible copyright-wise, leveraged existing digital resources, honed processes, re-structured course sites and improved the student experience . . . all through the iSites platform and associated library tools.

Gino Beniamino, Instructional Technologist, Harvard Graduate School of Education

Carol Kentner, Course Administrator, Harvard Graduate School of Education

Trisha White, Technology Support Services Team Leader, Harvard Graduate School of Education

WorldMap for Research and Collaboration – A Geospatial Approach

WorldMap is an open source, web-based GIS application developed by the Center for Geographic Analysis at Harvard University. It allows users to compile, analyze, archive, search and share over the web all types of geospatial information without the need to use difficult-to-learn GIS software. For educators, WorldMap presents a unique opportunity to analyze research data that can be spatially displayed and also be collaboratively developed.

Jeff Howry, Research Associate, Semitic Museum, Faculty of Arts and Sciences and Gulf Encyclopedia for Sustainable Urbanism Graduate School of Design

Driving Pedagogical Innovation with Technology

Last spring, HBS infused new levels of innovation into the pedagogy of the first-year MBA. Paramount to the curriculum was creating deeper student collaboration through experiential, immersive, field-based learning. The School facilitated this learning through the development of a new set of online tools that encouraged self-reflection, peer feedback and collaboration/sharing through portals and videos spaces. MBA and HBS IT will walk you through the changing pedagogy and explore how they crafted these technology solutions to complement the goals of the new program.

Susan Borges, Field Immersion Experiences for Leadership Development, Harvard Business School

Elizabeth Hess, Managing Director, Educational Technology Group and Web Development, Harvard Business School

Diane Sadowski, Managing Director, Project Management Office and Strategic Initiative, Harvard Business School

PROGRAM

Flipping the Classroom through Video Annotations

Digital video, one of the fastest growing sources of media available online, is becoming an indispensable primary resource in many of the academic disciplines. Students now use instructional videos to review lectures, visualize classroom cases, reexamine lab practices or learn languages. Video annotation tools in pedagogy introduce a new model of classroom engagement transforming the unidirectional video discourse into a bidirectional exchange and flipping the common instructional approach. Through video annotations, teachers can assess the level of student engagement probing misconceptions around specific topics and addressing them in the classroom or by embedding new reformulated material as commentaries within the video. Teachers can further reflect on their own teaching methods based on the feedback gathered through student commentaries or questions about the material.

Philip Desenne, Academic Technologies Senior Product Manager, Harvard University Information Technology, Harvard University

2:15 – 2:35 p.m.
Networking Break

2:35 – 3:20 p.m.
Concurrent Sessions 3

Bringing Curriculum to Life: Best Practices for Building Multimedia Content

As technology matures, the appetite for dynamic, multimedia content continues to grow. Increasingly tech savvy learners drive demand for richer, more engaging educational content. Come hear how you can meet these demands in effective and appealing ways from two of Harvard Business School's multimedia experts. They'll review best practices and key learnings on technology choices, storytelling, faculty engagement, mobile development and more.

David Habeeb, Lead Multimedia Developer, Educational Technology Group, Harvard Business School

Ruth Page, Senior Multimedia Producer, Educational Technology Group, Harvard Business School

Going the Distance: Converting a Residential Executive Education Program into an Online Program

Learn how HGSE collaborated across departments and between faculty and staff to convert a long-running residential executive education program into a fully online six-week experience. We will

discuss our planning/design/ development/delivery process, the technologies we used and our multi-tiered approach to faculty coaching and participant on-boarding. We will share specific plans to leverage mobile to better meet learning goals in this program, as well as plans around technology-enhanced learning in executive education at HGSE more generally.

Gino Beniamino, Instructional Technologist, Harvard Graduate School of Education

Kristin Lofblad Sullivan, Manager of Instructional Technology, Harvard Graduate School of Education

More than Email and Disk Space: Supporting Undergraduates in Building a Digital Portfolio

The long-term IT commitment to students is not much more than an email account, storage space and, perhaps, a personal web page. Would students benefit from building a persistent digital portfolio of work, cutting across courses, projects and personal interests? Can every student be given a virtual cluster of computers on their arrival that they will use throughout their studies? What would such a system look like? How would students use it? What is in place now that could support such a goal? Could this benefit graduate students and faculty as well?

Ian Stokes-Rees, Scientific Computing Consultant, School of Engineering and Applied Sciences

Teaching in the Cloud: Using IaaS in the Classroom

In this roundtable, we'll discuss how cloud infrastructure providers are being used in courses, including local (such as OpenNebula or OpenStack) and vendor (Amazon EC2) solutions. We touch on the advantages and disadvantages of running in the cloud, including security concerns. Lastly, we will discuss where "the cloud" is going in terms of the classroom and independent learning, and how Harvard might respond.

David Malan, Instructor, School of Engineering and Applied Sciences

Robert Parrott, Director of Academic Computing, School of Engineering and Applied Sciences

Hanspeter Pfister, Professor of the Practice, School of Engineering and Applied Sciences

Jim Waldo, Gordon McKay Professor of the Practice, Chief Technology Officer, Harvard University Information Technology

From 200 to 17,000 Processing Cores in Five Years

We will discuss how we have consolidated and coordinated scattered, independent research computing assets within the sciences to provide a seamless, integrated private research computing cloud. Over 17,000 cpu now provide support for over 5,000 researchers including over 4 petabytes of storage. This distributed computing system has dramatically improved our ability to solve large data-driven and grand challenge scientific problems. We will also talk about how new data center facilities in Holyoke, MA, to open in 2013, will further increase and extend our capabilities.

James Cuff, Director of Research Computing / Chief Technology Architect, Research Computing Division of Science, Faculty of Arts and Sciences

Research in the Library? Informatics Opportunities for the Present and Future

Long past are the days when the university library was a place for musty tomes and shushing librarians. Advances in computer science and informatics have reshaped user expectations and ushered a new age of interconnected, ubiquitous and, sometimes, magical information services. The Center for Biomedical Informatics has enjoyed a rich and collaborative relationship with the Countway Medical Library. Together, we would like to share how this relationship has enriched medical informatics projects, and discuss how research in these areas can benefit the core mission of the library.

Daniela Bourges, Lead Architect, Center for Biomedical Informatics, Harvard Medical School

Jonathan Kennedy, Senior Software Engineer, Center for Biomedical Informatics, Harvard Medical School

Dougal MacFadden, Director of Informatics Technology, Center for Biomedical Informatics, Harvard Medical School

Alexa McCray, Associate Professor of Medicine at Harvard Medical School / Associate Director, Countway Library of Medicine / Co-Director, Center for Biomedical Informatics, Harvard Medical School

David Osterbur, Director of Public and Access Services, Countway Library of Medicine, Harvard Medical School

Juliane Schneider, Metadata Librarian, Countway Library of Medicine, Harvard Medical School

Just One More Thing . . . Enabling Seamless Mobile Integration

Utilizing the latest available open standards technologies, it is now possible to create an enterprise-quality research or administrative web application that allows for the simultaneous creation of mobile iPad and iPhone versions at little extra development cost. The key is to use the correct standards. The speaker will show you how.

Nick Sophinos, Technical Lead, Harvard Catalyst

The Harvard Web Publishing Initiative

The past few years have seen a rapidly growing need from FAS and Central Administration departments for coordinated services and support for web publishing. In the spring of 2011, Harvard University Information Technology (HUIT) and Harvard Public Affairs & Communications (HPAC) evaluated existing support for web services and made recommendations for providing additional resources to departments, centers and offices to meet their web development and maintenance needs. In partnership with The Institute for Quantitative Social Science (IQSS), this three-year initiative will define common tools and services for website publishing capable of meeting the widest possible range of departmental needs. This presentation describes the software and services that will emerge from this unique, cross-departmental partnership, and describes how we will help departments conduct business effectively and efficiently through a coherent, well-designed web presence.

Ferdinand Alimadhi, Lead Application Architect, Harvard Web Publishing Initiative / Manager of Statistical Programming, Institute for Quantitative Social Science

Paul Bergen, Director, Academic Technology Services, Harvard University Information Technology

Ben Sharbaugh, Digital Media Strategist, Harvard Public Affairs and Communication

Amy Winder, Manager of Client Relations, Administrative Web Services, Harvard University Information Technology

Enterprise Business Intelligence – Current State and Future Direction

What is Enterprise Business Intelligence? We will discuss the Business Intelligence Roadmap for the University, including the evolution of how we access information at the University and, more importantly, how that information is used in the day-to-day running of the University. These capabilities have spanned producing simple listing reports to reports with interactive features to the enablement of longitudinal analysis. Included in this session will be demonstrations of current reporting and new technologies on the horizon.

Kathy Genovese, Business Intelligence Manager, Enterprise Data and Business Intelligence Services, Harvard University Information Technology

Ian Wall, Associate Director, Enterprise Data and Business Intelligence Services, Harvard University Information Technology

Classroom Response Systems at Harvard FAS: Status and Trends

The presentation will describe Harvard University Information Technology's experience of supporting the Turning Technologies classroom response system for FAS courses after more than two years. It will also include recent developments about Learning Catalytics, new software developed by Eric Mazur's team that allows instructors to go beyond multiple-choice questions and to manage the interactive classroom through peer instruction. The audience will have the opportunity to experience Turning Technologies and Learning Catalytics firsthand during the presentation.

Daniel Jamous, Senior Instructional Technologist, Academic Technology Services, Harvard University Information Technology

Tolu Odumosu, Post-Doctoral Fellow, School of Engineering and Applied Science, Harvard Kennedy School / Teaching Assistant, General Education, Faculty of Arts and Sciences

Julie Schell, Post-Doctoral Fellow in Educational Research, School of Engineering and Applied Science

3:20 – 3:40 p.m.
Networking Break

3:40 – 5:00 p.m.
Closing Reception and Exhibit Area

NORTHWEST BUILDING

5:00 p.m.
Adjourn

The following exhibitors can be found in the exhibit area located in the Northwest Building:

ANCHOR EXHIBITORS



The power to do more



DISPLAY EXHIBITORS



PRESIDIO



Exhibitor Profiles

May 31, 2012

ANCHOR EXHIBITORS



The power to do more

Dell has been a leader in the Higher Education arena for many years. Academic institutions are increasingly serving a diverse student body that is demanding more innovative approaches to teaching and learning. At the same time, IT leaders are under pressure to expand core services for the entire campus environment while also playing a pivotal role in driving greater operational and cost efficiencies. Dell delivers the right technology to help higher education grow and thrive. By using intensive virtualization strategies to address the challenges of academic, administrative and research computing, Dell helps you to transform campus computing and drive unprecedented levels of efficiency and flexibility.

- **Equip the Classroom:** Innovative classroom technologies provide smarter ways to enhance the teaching and learning experience.
- **Provide Exceptional Service to Faculty and Students:** Reliable, scalable Enterprise Resource Planning (ERP) solutions help academic institutions efficiently run and manage administrative applications.
- **Save Energy and Save Money:** Dell strives to be the greenest technology company on the planet and is committed to helping academic institutions achieve energy efficiency in their IT environments, from the client to the data center.
- **Transform the Computing Landscape:** Dell offers a computing solution for practically every academic environment.
- **Enhance Communication and Collaboration:** Learning Management Systems (LMS) provide campuses with the resources to take course management to new levels.
- **Cloud Computing:** Simplify IT management, boost capabilities and minimize hardware maintenance complexities and upfront costs.
- **Desktop Computing:** Manage every aspect of desktop ownership, from deployment and maintenance to security and asset discovery.
- **Desktop Virtualization:** Increase workforce flexibility. Centralize control of distributed data. Automate end-user software updates.
- **Mobile Computing:** Boost user productivity and secure data and devices – without introducing excessive IT burdens.

- **Converged Infrastructure:** Shift your IT focus from maintaining disparate devices in your data center to directing a single landscape of servers and storage.
- **Data Center Virtualization:** Increase server utilization and improve responsiveness to changing needs – while reducing the costs of IT growth.
- **SharePoint:** Collaborate and innovate with advanced social computing tools that connect people, technology and information. We deliver an end-to-end SharePoint 2010 solution that's secure, reliable and easy to manage.
- **Email Solutions:** Dell email solutions incorporate Microsoft Exchange Server 2010 with optimized architectures, consulting services and cloud-based services to help increase productivity, reduce costs and improve communications.
- **Systems Management:** Use Dell's management tools, custom services and integrated solutions to reduce IT complexity across your entire enterprise, from the desktop to the data center.

These solutions are only a few examples of Dell's solutions for higher education customers. There are more than 100 case studies describing Dell's work with colleges and universities across the globe at www.dell.com/casestudies.

As Harvard's preferred PC provider, the local Dell account team provides expert management, delivery and product support for the entire University. Dell's solution provides alignment with the unique needs of the various Academic Units and departments that we have come to understand over the past several years.

For additional information, please contact your Account Manager, Jill Dixon: Phone (781) 738-3566, Email: Jill_Dixon@dell.com.

ANCHOR EXHIBITORS

ORACLE®

EDUCATION AND RESEARCH

With more than 380,000 customers—including 100 of the Fortune 100—and with deployments across a wide variety of industries in more than 145 countries around the globe, Oracle offers an optimized and fully integrated stack of business hardware and software systems that helps organizations overcome complexity and unleash innovation.

Oracle is ranked #1 in 50 product or industry categories including Education. With over 14 million developers in Oracle online communities, and over 800,000 members of Oracle user groups, Oracle is the global standard for database, middleware and administrative applications.

Education and Research is one of Oracle's key strategic industries.

- 20 of the top 20 academic universities worldwide get better results with Oracle
- 10 of the top 10 research institutions in the U.S. get better results with Oracle
- 9 of the top 10 academic institutions in Europe get better results with Oracle
- 10 of the top 10 Australian universities get better results with Oracle
- 9 of the top 10 academic universities in Asia Pacific get better results with Oracle

Oracle consistently invests 12-14% of annual revenues in research and development funding over 32,000 internal developers and engineers. Oracle engineers hardware and software to work together in the cloud and in your data center—from servers and storage, to database and middleware, through applications.

Oracle systems:

- Provide better performance, reliability, security, and flexibility
- Lower the cost and complexity of IT implementation and management
- Deliver greater productivity, agility, and better business intelligence

Oracle is simplifying IT—helping customers unleash innovation and overcome complexity.

DISPLAY EXHIBITORS



About Cisco

As the world's leading provider of networking for education, Cisco offers profound experience in creating a solid network foundation that enables operational efficiency, academic excellence, and a safe environment. Cisco's approach, Connected Learning, leverages the campus network to deliver solutions for online learning, mobility, data and physical security, IP telephony, web-based and video conferencing, digital media, unified communications, smart buildings, and more.



About DynTek & McAfee

DynTek, McAfee's Government, Health & Education Partner of theYear, is a leading provider of professional technology services to mid-market companies, such as state and local governments, educational institutions and commercial entities in the largest IT markets nationwide. From virtualization and cloud computing to networking and mobility, DynTek provides professional technology and security solutions across the core areas of our customers' technical environment. DynTek's multidisciplinary approach allows our clients to turn to a single source for their most critical technology requirements.

McAfee, a wholly owned subsidiary of Intel Corporation (NASDAQ:INTC), is the world's largest dedicated security technology company. McAfee delivers proactive and proven solutions and services

that help secure systems, networks, and mobile devices around the world, allowing users to safely connect to the Internet, browse, and shop the web more securely. Backed by its unrivaled global threat intelligence, McAfee creates innovative products that empower businesses, the public sector, and service providers by enabling them to prove compliance with regulations, protect data, prevent disruptions, identify vulnerabilities, and continuously monitor and improve their security. McAfee is relentlessly focused on constantly finding new ways to keep our customers safe.

To schedule a consultation or learn more about our Harvard Site License agreement, please contact marketing@dyntek.com. For more information, visit <http://www.dyntek.com> or <http://www.mcafee.com>.

DISPLAY EXHIBITORS

Microsoft

Be what's next.

Microsoft representatives will be on hand to discuss the current site license in place with Harvard plus the support and service options available to Harvard IT across campus. In addition, MS Technical Specialist will be available to discuss up and coming soon to be released new offerings from Microsoft such as Office 365 (Microsoft hosted solutions) and Windows 8.



NetApp

About NetApp

NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. Our dedication to the principles of simplicity, innovation, and customer success has made us one of the fastest-growing storage and data management providers today. Customers around the world choose us for our "go beyond" approach and broad portfolio of solutions for server-to-storage virtualization, business applications, data protection, and more. Our solutions and virtualized storage technologies provide nonstop availability of critical business data and speed product development, so companies can deploy new capabilities with confidence and get to revenue faster than ever before. Discover our passion for helping companies around the world go further, faster at www.netapp.com.

DISPLAY EXHIBITORS

PRESIDIO™

Presidio Networked Solutions' comprehensive portfolio consists of unified communications, wireless, security, optical, tele-presence, storage, and managed & hosted services.

Presidio Networked Solutions addresses the complete technology lifecycle — planning, designing, integrating, operating and optimizing — of networking and system solutions. The company works closely with customers throughout implementation and post-implementation, offering management expertise and support.

Holding the highest industry certifications from vendor partners Cisco, EMC, VMware, HP and Microsoft, Presidio Networked Solutions is well positioned to meet the growing needs of customers migrating to advanced technologies. Presidio also offers customers an extensive range of financing solutions, including leasing.



Symantec is a global leader in providing security, storage and systems management solutions to help our customers – from consumers and small businesses to the largest global organizations – secure and manage their information, technology infrastructures and related processes against more risks at more points, more completely and efficiently than any other company. Our unique focus is to eliminate risks to information, technology and process independent of device, platform, interaction or location. Our software and services protect completely, in ways that can be managed easily and with controls that can be enforced automatically – enabling confidence wherever information is used or stored.

DISPLAY EXHIBITORS



Verizon is a global technology leader that combines integrated communications and IT solutions to help educational institutions advance their mission. Our comprehensive solutions enable thousands of educational institutions to securely access information, share content and communicate more effectively. Verizon provides the world's most advanced 4G network for distributing content to portable devices and a cloud-based 'everything-as-a-service' delivery model. With one of the world's most connected IP networks, Verizon is a leading provider of security, IT, and communications solutions. By enhancing IT services, improving the reach of existing networks and technologies, securing data, and connecting campuses, administration, students, partners, and employees, Verizon helps customers to deliver critical information to those who need it – quickly and securely.

As education expands beyond traditional office walls, the Verizon global IP network provides a strong foundation to support the extended enterprise, making it possible to connect, communicate and collaborate

in a fast-paced world. Our suite of professional services helps customers to improve infrastructure and application performance, secure the extended enterprise and enable collaboration.

Reliable wireless connections are critical to ensuring that educational institutions can collaborate effectively. Verizon helps meet those goals by offering custom communications, mobility, collaboration and productivity solutions across America's most reliable wireless voice and data network. Our commitment to partnership with education and technology leaders ensures institutions can cost-effectively deploy enterprise-grade mobility solutions that meet the needs of educators. Our culture of honesty, integrity, responsiveness, and first-call resolution helps us support mission-critical projects with the same sense of urgency and accountability as our customers. Verizon continues to lead the industry by offering the highest quality products and services while introducing innovative technology solutions.

