



Sakai Newsletter

May 17, 2007

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1. Announcing the FLUID Project

We're pleased to announce the launch of the FLUID Project, a new collaborative project to improve the user experience of community source software. FLUID includes members of the Sakai, uPortal, and Moodle communities who are working together to address the precarious values of usability, accessibility, internationalization, and more within academic software projects. The project is supported by a two-year grant from the Andrew W. Mellon Foundation.



Goals of the FLUID Project

Our goal is to help improve the user experience of community source web applications including Sakai, uPortal, Kuali Student and Moodle. FLUID will combine both design and technology to create a living library of sharable user interface components that can be reused across community source projects. These components will be built specifically to support flexibility and customization while maintaining a high standard of usability, accessibility, internationalization, and security. The FLUID framework will enable designers and developers to build user interfaces that can more readily accommodate the diverse personal and institutional needs found within community source. We will integrate these rich, client-side UI components and the framework to support them into existing presentation technologies used in Sakai and uPortal.

In order to encourage user-centered design within community source software, FLUID will also create a designer's toolkit that will offer useful design, accessibility, and usability strategies and documentation. This toolkit will include the results of several heuristic analyses and usability studies, a collection of design models such as user profiles and personas, and a growing library of UI design patterns. Members of the FLUID team will be available to provide usability and accessibility support within the Sakai, uPortal, Kuali Student, and Moodle communities.

Who is involved?

FLUID is a community source project open to everyone. The project is led by University of Toronto with UC Berkeley, University of British Columbia, York University, and Cambridge University. Other partners include Michigan State University, University of Colorado, University of Michigan, Sun Microsystems, the Mozilla Foundation, and IBM. The FLUID Project is funded by a grant from the Andrew W. Mellon Foundation. New participants are welcome, and we encourage you to visit our website at <http://fluidproject.org> to learn more about the project and get involved.

How will FLUID help Sakai?

Our goal is to improve the user experience of Sakai and other community source software projects. The FLUID team is already deeply involved in the Sakai community, and will continue to ensure that our priorities and deliverables are closely aligned to the needs of the community. We will contribute all of our design and technical work to the Sakai community under the ECL and Creative Commons licenses. This will include:

- A collection of well-designed, accessible, and reusable UI components
- Integration of the FLUID framework and components into Sakai tools
- New usability and heuristic studies of Sakai
- Ongoing user research and synthesis of usability data in Sakai
- New patterns for the Sakai UI design patterns library

- A library of user research documentation including personas, profiles, scenarios, and other design models for Sakai
- Increased involvement and input from skilled designers, accessibility experts, and UI developers

How can I get involved?

Everyone is welcome to join the FLUID community and contribute to the design and development of the project. Here are some ways you can help shape the future of the project:

- Participate in the FLUID community mailing lists
- Share your design or usability expertise
- Develop new FLUID components
- Usability and accessibility testing
- Help integrate the FLUID framework into Sakai, uPortal, or other community source projects
- More...

More Information

For more information about the FLUID Project, please visit our website at <http://fluidproject.org>. If you have any questions or comments, please don't hesitate to contact Colin Clark at colin.clark@utoronto.ca or join our community mailing lists and get involved!

- Colin Clark, Technical Lead
colin.clark@utoronto.ca
FLUID Project Adaptive Technology Resource Centre
University of Toronto
<http://fluidproject.org>

2. Amsterdam Conference Updates

SPAM ALERT: "Sakai Conference Travel Grant"

A spam email message was recently posted to various groups, offering travel grants for the June Amsterdam conference. Sakai is not responsible for posting this message and we regret that we are unable to offer such support.

Our IT Security Services group at the University of Michigan has told us, "Almost certainly it's an 'advance fee' scam-- the scammer will send an 'accidentally' inflated expense check to the victim and ask the victim to wire back the difference. The check is forged -- many banks will credit an account immediately on deposit, but will subtract it

when they discover the check is a forgery (weeks later, long after the victim has already wired money to the scammer)."

If you have questions regarding this issue, do not use the email address provided in the spam email. Please contact Mary Miles at mmiles@sakaifoundation.org

OSP POST-CONFERENCE MEETING

This daylong meeting is being hosted by Universiteit van Amsterdam.

Date: June 15 2007

Time: 9am - 3pm

Location: Universiteit van Amsterdam, Herengracht 182, room 007

Features: Wireless (and probably wired also) Beamer, Whiteboard, Flipover and Lunch

POSTER TEMPLATE IS READY

To access the poster template, go to:

http://sakaiproject.org/conference/amsterdam/sakai_poster_templateAmsterdam07.ppt

CONFERENCE 2007 LOGO -- DUTCH DESIGN!!

Portfolio4u and some of the members of the Sakai Foundation (Susan Hardin and Joseph Hardin) worked together to design the new Sakai Conference logo. Dutch graphic designer, Rik Laurentzen, did the design, so... this is really a Dutch design.



We went through lots of designs with windmills, wooden shoes and finally the one with the tulips. The tulip stands as a central point and reflects one of the main (export) products of The Netherlands. You can also see the wavy blue Sakai lines -- they represent the water in The Netherlands. And maybe you know, there is a lot of water in The Netherlands.

The new logo will be seen on all the conference items like posters, programs and t-shirts.

The Portfolio4u team is proud that the Sakai community chose the Dutch-designed logo.

- Jan van den Berge

jan@portfolio4u.nl

3. Announcing 5 New Sakai Pilots

Five new pilots have been set up by Sakai members around the world. Watch for further information about these and other Sakai implementations in future issues of this newsletter and on sakaiproject.org.

Russia

- Smolny College of Liberal Arts and Sciences
- <http://dl.smolny.nw.ru/portal>
- Contact: Philip Fedchin, philip@smolny.org and Vitaly Khudobakhshov, vitaly@smolny.org
- "Smolny College is a joint venture of St. Petersburg State and Bard College (New York)."

Brazil

- Moleque de Idéias Educação e Tecnologia Ltda
- <http://sakai.moleque.com.br>
- Contact: Nilton Lessa, nlessa@moleque.com.br
- "We are a k12 institution in Brazil, Niterói- Rio de Janeiro. and we are beginning to use SAKAI in a pilot program with some of our classes. We are beginning to work also in a Portuguese-Brazilian localization."

Turkey

- Sabanci Universitesi
- <https://sukaipilot.sabanciuniv.edu/portal>
- Contact: Onur Sirin, onursirin@sabanciuniv.edu

Georgia, U.S.A.

- Georgia Tech
- <http://t-square.gatech.edu>
- Contact: Clay Fenlason, clayf@cetl.gatech.edu
- "This week Georgia Tech officially got its Sakai pilot out the door with the 2.3.x maintenance branch, Banner integration, and a custom tool or three."

NITLE

- National Institute for Technology and liberal Education (NITLE)
- http://www.nitle.org/index.php/nitle/opportunities/services/the_sakai_pilot_project
- Contact: Eric Harper, eric.harper@nitle.org

4. JIRA: New Production/Pilot project

Over the last few days I've been migrating the production/pilot data maintained in the Confluence Production WG space to a new JIRA Production/Pilot Deployment project that I've created complete with custom fields and custom forms. The migration is now complete and I've restricted the Confluence pages to view only as well as added a deprecated message.

Leveraging JIRA's capabilities simplifies greatly the maintenance of this data in an online idiom familiar to those who have used JIRA to post issues and review requirements. One can also now easily extend the data set to include additional areas of information if deemed appropriate. To date the focus has been on collecting basic deployment information such as choice of hardware, OS, web server, database, file storage and clustering strategies as well as total users and sites, etc. I've added additional fields to the new JIRA project (see the field list at the end of the email) that remain for the most part within the current focus on software/hardware/configuration choices. However, there is more than one way to define "production" and the question set could be extended to touch on additional areas (e.g., tool choices, using Sakai) if there is interest and a willingness to contribute additional information.

It is also important to note that the implementation data represents but a subset of organizations utilizing Sakai in a production setting. Many institutions utilize Sakai in a shared environment such as that provided by the Etudes Consortium or the Appalachian College Association. You will not find the names of these institutions in the data set although the total number of organizations served by a particular installation is recorded.

Both potential adopters and implementers have found the deployment data useful. However, considerable gaps exist in the data that I hope we as a community work to close (see collab link to production-pilot spreadsheet below). The move to JIRA should render the process of adding/editing the information easier than the situation that existed in Confluence. For each implementation I have taken the liberty of assigning the local contact that was listed in Confluence or if absent to a JIRA user associated with the implementation to solicit assistance in correcting errors, updating existing information and adding new details. If I have selected the wrong person please email me with a correction. If you lack an entry please contact me and I will set it up for you.

The current PROD issue format is tab-based (if people prefer a single view the tabs can be dropped) and includes the following tabs:

- General
- Environment
- Hardware
- Integration
- Map mashup

For an example of the approach see Whitman College's entry:
<http://bugs.sakaiproject.org/jira/browse/PROD-7> (note that other entries may display fewer tabs/fields as JIRA hides tabs/fields with no entries). The project can be accessed from the JIRA dashboard (key: PROD) and is viewable by all. I've also created a custom filter that provides a subset of the available data:

<http://bugs.sakaiproject.org/jira/secure/IssueNavigator.jspx?mode=hide&requestId=11294> From it one can download all available data or a copy of the custom filter results.

I'd like to thank Mike Osterman (Whitman College) and Terry Collins (University of Windsor) for helping me test the project and also Peter Knoop for suggesting JIRA as an alternative to Confluence.

Finally, have a look at the fields below. If anything looks amiss or you have suggestions for additional data to be captured please drop me a note.

Cheers,

Anthony Whyte
arwhyte@umich.edu

DATA FIELDS (* = required)

I. GENERAL

- Region: Geographical region in which the organization is located. Regional designations are based on the United Nations Statistics Division classification system (see <http://unstats.un.org/unsd/methods/m49/m49regin.htm>). Note that the UN utilizes the regional designation Western Asia in preference to "Middle East". Western Asia is considered by the UN a geographical sub-region of Asia.

* - Organization: Provide the name of the academic institution, commercial enterprise, association, non-profit or other entity that owns this deployment.

- Local name: Provide the local branded name of your Sakai production/pilot implementation (e.g., CLeo, eFundi, Oncourse, Vula).

- Site URL: Provide the URL of your local Sakai installation.

* - Sakai version: Select the Sakai version you have deployed.

* - Status: Select the current deployment status of your installation (e.g., demo, pilot, production).

- Scope: Select the scope, actual or intended, of your deployment (e.g., serving the enterprise, supporting a single sub-unit such as an academic department or faculty, supporting a project or research team).
- System(s) replaced: Select the system(s) replaced by your Sakai installation.
- Total organizations: Provide a count of the total number of organizations supported by this installation. In most cases only a single organization will be supported but consortiums, associations and ASPs may support multiple organizations.
- Total active users: Provide a count of the total number of active users currently utilizing your Sakai installation.
- Total active sites: Provide a count of the total number of sites, course, project and otherwise currently in use.
- Production start date: Pick a dateSelect the production start date of your Sakai deployment, actual or anticipated. This date should not be updated if your production installation of Sakai migrates to a newer version.
- * - Contact(s): [Select a user(s)]List the local contact(s) available to field questions regarding to your installation.

Other information: Provide other general information relevant to your deployment.

II. ENVIRONMENT

- Operating system: Select the operating system(s) deployed on your web application and database servers.
- Web server: Select the web server you use to run Sakai.
- Database: Select the database server deployed with Sakai.
- Java: Select the version of Java you are running.
- JVM tuning: Provide JVM options you use to run Sakai optimally in your environment (e.g., `JAVA_OPTS="-server -Xms1500m -Xmx1500m -XX:NewSize=400m -XX:MaxNewSize=400m -XX:PermSize=128m -XX:MaxPermSize=196m -verbose:gc -XX:+PrintGCTimeStamps -XX:+PrintGCDetails -XX:+UseConcMarkSweepGC -XX:+UseParNewGC"`).
- Environment: other information: Provide additional details relative to software choices and the configuration of your Sakai deployment environment.

III. HARDWARE

- 64-bit processing: Indicate whether or not you are running Sakai in a 64-bit environment.
- Application server(s): Describe the configuration of your web application server(s) such as number of CPUs, CPU speed, RAM, HDD space, etc.
- Total app servers: Provide a count of the total number of application servers used in your deployment.
- Database server(s): Describe the configuration of your database server(s) such as number of CPUs, CPU speed, RAM, HDD space, etc.
- Total db servers: Provide a count of the total number of database servers used in your deployment.
- File storage: Describe your file storage strategy and configuration.
- Cluster/load balancing: Describe your cluster/load balancing strategy and configuration.
- Hardware: other information: Provide other information relative to your hardware choices.

IV. INTEGRATION

- Network authentication: Select the network authentication protocol with which your installation of Sakai integrates.
- Student information system: Select the student information system with which your installation of Sakai integrates.
- Integration: other information: Add other information details relative to your integration requirements.

V. MAP MASHUP

- Longitude: Provide the longitude (decimal degree notation) for your installation for use in the Sakai Google map mashup (e.g., Indiana University, Long. = -86.51497500000001).
- Latitude: Provide the latitude (decimal degree notation) of your installation for use in the Sakai Google map mashup (e.g., Indiana University: Lat. = 39.179055).

5. Sakai Pilots: A Call for Information

As I work with members of the community to add/update both the Sakai production entries in the new Jira Production/Pilot Deployment project and the Sakai map mashup, I'd like to encourage members of the Sakai community who are overseeing pilots or demo instances of Sakai to review existing pilot data in the project for accuracy and completeness. If your pilot is not listed in Jira or in the map mashup and you would like to publicize its existence please contact me so that I can set up entries for you. If you spot errors in your entry and do not have edit permissions in the project (i.e., no "edit" link is exposed) send me an email too.

Your assistance in helping provide a more complete picture of Sakai deployments is appreciated. Such data is particularly useful for potential adopters who want to know both who is using Sakai and how it is deployed. The data collected also provides useful information for the community as whole as individual organizations share details on their respective software, hardware and configuration decisions.

To view a listing of project entries tagged as pilots (n=33) click on the Jira filter link below.

Pilot List:

<http://bugs.sakaiproject.org/jira/secure/IssueNavigator.jspa?mode=hide&requestId=11305>

Note that each entry focuses on a physical deployment and thus the count under represents the total number of organizations who are piloting Sakai currently. The Longsight Group, for instance, is working with 66 organizations who are piloting Sakai. None of these organizations are listed although the total number of organizations an installation supports is tracked (i.e., "total orgs" field).

Also check the map mashup:

Pilots Map mashup:

<http://www.sakaiproject.org/sakai-map//index.php?filtercolor=purple>

If entries are missing or incorrect drop me a note.

Getting involved in the production/pilot data-sharing project is entirely voluntary. There is no requirement that you must share implementation details with other members of the community or the wider world.

Anthony Whyte
arwhyte@umich.edu

6. JA-SIG With Altitude -- *Early Registration Ends May 20, 2007!*

Don't miss the opportunities of this conference to:

- get in depth knowledge from seminars
- see demonstrations and presentations from your higher ed colleagues
- work with other attendees on your common problems
- help advance the JA-SIG projects at the Wednesday BarCamp <http://www.ja-sig.org/wiki/x/gQIs>

And don't forget, this year's conference features a Sakai track (gotta like it!).

<http://www.ja-sig.org/conferences/07summer/index.html>

See you in June in Denver!

JA-SIG With Altitude!
June 24-27, 2007
Denver, Colorado, U.S.A.

7. The Open Learning Partnership Selects The rSmart Group

The rSmart Group, commercial provider of support for the rSmart Sakai CLE, is pleased and proud to have been selected by the Open Learning Partnership (OLP), a project of the eTech Ohio Commission and the Ohio Learning Network (OLN), to implement and support the rSmart Sakai Collaboration and Learning Environment (CLE).

OLP will initially pilot the rSmart Sakai CLE with one Information Technology Center (ITC), which provides technical services to approximately 29 Ohio school districts, and two higher education institutions. After the pilot period concludes, additional K-12 schools and higher education institutions are expected to join the OLP. In addition to software maintenance and technical support, rSmart will assist OLP with software installation and configuration, data migration and integration, and professional development.

"By working with rSmart on this pilot project, Ohio educators are gaining access to a CLE that can be customized to meet the specific needs of Ohio educators," said Jillian Froment, Executive Director of the eTech Ohio Commission. "Also, the technical expertise and training resources that rSmart brings to this pilot will allow us to more quickly test the efficacy of open source CLE solutions for Ohio."

For more information, or to read the full story, visit: www.rsmart.com

Megan Perrone
Marketing Representative
The rSmart Group, Inc.
mperrone@rsmart.com

8. Update: Sakai Worldwide Map Mashup

I've been updating Dr. Chuck's famous Google map mashup of Sakai installations worldwide. I've changed the approach ever so slightly, expanding the focus to include not only organizations running Sakai on their own but also organizations utilizing Sakai in a shared environment. From a production perspective this translates into an additional 67 academic institutions who are running Sakai in a production setting--a not insignificant number and a hefty chunk of the 150+ organizations who have adopted Sakai to date. Additional pilots have also been added.

Since one can overlay icons without any apparent view issues, I've also made sure that all Sakai partners and commercial affiliates are identified with appropriate icons on the map in addition to providing icons for their production/pilot instances. So an organization is no longer limited to a single icon for a given latitude and longitude. Indiana University, for example, sports four icons, a green icon for its partner status, a blue icon for its Oncourse production instance and two red icons for the Sakai and OSP QA servers that it provides to the Community.

So if latitude and longitude strike your fancy, take a moment and double-check my work. If you find yourself on the wrong side of the world or would like to be added to the map send me a note.

Cheers,

Anthony Whyte

- All: <http://www.sakaiproject.org/sakai-map//index.php>
- Production: <http://www.sakaiproject.org/sakai-map//index.php?filtercolor=blue>
- Pilot: <http://www.sakaiproject.org/sakai-map//index.php?filtercolor=purple>
- Commercial affiliates: <http://www.sakaiproject.org/sakai-map//index.php?filtercolor=orange>
- Community Servers (QA, Collab): <http://www.sakaiproject.org/sakai-map//index.php?filtercolor=red>

9. Talks at EDUCAUSE Australasia 2007 (April 29 - May 2) by Brad Wheeler, Charles Severance

"Leading Beyond the ICT Conundrums for Scholarship 2.0" by Brad Wheeler

Indiana University Abstract: The foundations and frontiers of ICT and the purpose and passion of scholars are combining to reshape the modern university. It is easy to squander organizational attention and money in poor timing or poor choice of technology-enhanced efforts, but it is equally easy to miss the real transformative opportunities that arise from scholarly communities. As we embark on a new wave of maturing ICT and the attendant social changes, now is precisely the right time for assertive ICT leadership, purposeful strategy, and disciplined execution to ensure that our universities are able to rise to their potential. For ICT leaders, we must not shy away from the conversations regarding the digitization of the scholarly record, frontiers and funding models for campus and national cyber infrastructure, and the increasingly porous boundaries of the university for serving learners. Our passion for architecting networks, systems, and services are just our stewardship responsibilities to the university. Co-creating scholarship 2.0, participating in a digital fabric of meta-universities, and doing all of this while serving the needs of individual scholars and students to deliver "user delight" with ICT services are among our challenges. We do, however, have the tools and community to lead through these conundrums if we choose to invoke them.

Read the paper here:

http://www.caudit.edu.au/educauseaustralasia07/authors_papers/Wheeler.pdf

See video with slides of Brad Wheeler's talk here:

<http://59.167.243.149/mediasite/Catalog/?cid=3fde5ca4-9b73-4c78-9d5f-a4060f2dc9d6>

"Pushing the Boundaries of Innovation Through Community Source: Sakai Project" by Charles Severance

Abstract: This session will explore the notion of Community Source using the Sakai Project as an example. Community source is a variation of open source where much of the development of the software is done by the organizations that adopt and use the software. We see community source as a natural evolution of open source as open source projects move from providing basic operating systems and infrastructure applications to developing end-user applications. One of the challenges in an end-user application is understanding and prioritizing the end-user's requirements and then addressing those requirements in a coherent fashion. There is a fine balance between central control and planning of software with the needs and goals of independent volunteer developer teams. Projects such as Sakai and Quali are experimenting with this new form of organizational

structure and always learning along the way. This session will explore the issues in community source and the approaches which have been used so far. We feel that Community Source approaches has the potential to radically change how we develop software that better meets our needs by using development talent that we already have in our organizations.

Read the paper here:

http://www.caudit.edu.au/educauseaustralia07/authors_papers/Severance.pdf

See video with slides of Charles Severance's talk here:

<http://59.167.243.149/mediasite/Catalog/?cid=3fde5ca4-9b73-4c78-9d5f-a4060f2dc9d6>

10. Zoom in on the Sakai Google Map and See What is Happening in The Netherlands

The Portfolio4u and the University of Michigan worked together to freshen up the Dutch Sakai Google map.

So check it out and zoom in on The Netherlands to see how many Sakai installations we did over the last year. And the number of schools that are starting with Sakai is growing fast.



Link to Sakai map: http://sakaiproject.org/index.php?option=com_wrapper&Itemid=588

Jan van den Berge
jan@portfolio4u.nl

11. Press release: eLearning Africa -- Delegates from 81 Countries Expected in Nairobi

Berlin, Germany. Nairobi, Kenya. eLearning Africa, the Pan-African conference on ICT for development, education and training, expects more than 1200 participants to attend the eLearning Africa: 2nd International Conference on ICT for Development, Education and Training (<http://www.eLearning-Africa.com>) this May.

Rebecca Stromeyer, project manager of eLearning Africa and managing director of ICWE, who organises the conference in cooperation with Hoffmann & Reif and the Kenyan Ministry of Education, comments: "So far, just over 1000 participants from 81 countries have already registered for the conference. We are very pleased to announce that the second eLearning Africa conference has not only grown considerably in numbers but also is once again a truly African event, with more than seventy percent of the

attendees coming from the African continent". eLearning Africa will take place from May 28 to 30 in Nairobi, Kenya.

The largest participant group will come from Kenya, the hosting country of this year's conference. Africa's most populous nation, Nigeria, will send the second-largest group, followed by South African and Ugandan groups. From Europe, the UK will send the largest contingent. Canada and the USA are also well represented.

The conference focuses on ICT-supported education, which is a core component of the development plans of most African governments. ICTs are being integrated into many national educational systems in order to reach the Millennium Goal of "Education for All".

This will be given special emphasis in the programme, which covers a wide range of topics, such as e-learning in medical education and the fight against HIV and AIDS, mobile learning, open source and open content, as well as eLearning in schools, higher education institutions, and in the public sector.

Universities from all over the Continent are presenting ICT good practice and e-learning programmes, including the University of Ibadan, Nigeria, the African Virtual University, University of Zimbabwe, Tumaini University, Tanzania, and the University of the Western Cape, South Africa to name but a few.

The 308 speakers from 55 countries include representatives from major development organisations such as UNESCO, UNEVOC, the Global Development Learning Network (GDLN), and the World Bank, as well as national and governmental institutions, mainly from Africa but also from Europe, Asia, and North America.

The hosting country, Kenya, will be represented at eLearning Africa by high-level speakers from the Ministry of Education, the Universities of Nairobi and Maseno, as well as major Kenya-based global development organisations.

eLearning Africa is an annual conference organised by ICWE GmbH and Hoffmann & Reif that focuses on ICT for development, education and training in Africa. The event has forged a dynamic network of stakeholders and now links decision makers from governments and administrations with universities, schools, governmental and private training providers, industry, and important partners in development cooperation. Each year a different African country will serve as the venue. Last year, 832 participants from 80 countries attended the first conference in Addis Ababa, Ethiopia.

Press contact:
Beate Kleessen
beate.kleessen@icwe.net

12. Events

eLearning Africa 2007

KICC -- The Kenyatta International Conference Centre

May 28 - 30, 2007

Nairobi, Kenya

<http://www.elearning-africa.com>

Sakai Amsterdam Conference

Movenpick Hotel Amsterdam City Center

June 12 - 14, 2007

Amsterdam, The Netherlands

www.sakaiproject.org

JA-SIG Summer 2007 Conference

June 24 - 27, 2007

Denver, Colorado

<http://www.ja-sig.org/conferences/07summer/index.html>

Sakai California Symposium -- "SakaiCAL"

Claremont McKenna College

Monday, 9 July 2007 from 9:00 a.m. to 4:00 p.m.

The Claremont Colleges and the University of California, Santa Barbara

<http://web.cgu.edu/sakaisymposium/>

1st International Conference ONLINE EDUCA MOSCOW 2007

September 30 - October 3, 2007

President Hotel

Moscow, Russia

http://www.online-educa-moscow.com/index_eng.php

Defining the Scientific Evolution of Technology Enhanced Learning: The Kaleidoscope 2007 Symposium

Hotel Intercontinental, Berlin

November 26 - 27, 2007

Berlin, Germany

<http://www.noe-kaleidoscope.org/group/symposium/>

Online Educa Berlin

Hotel Intercontinental, Berlin

November 28 - 30, 2007

Berlin, Germany

<http://www.online-educa.com/>