

# Teaching and Learning with Technology

at Yale University

## Teaching Innovation Grants Available

Instructors at Yale University can apply for grants to support teaching innovation. Go to <http://www.yale.edu/iig/> to view up-to-date information describing these sources of funding, and instructions on how to effectively pursue these opportunities.

Currently, these grant programs include the following:

**Paul Moore Fund**—This grant is intended to support the new methods and materials for the reorganization of important basic courses, but the development of new approaches for the effective use of teaching assistants is another possible goal. Contact Lorie Fontana, Yale College Dean's Office 2-2902, [lorie.fontana@yale.edu](mailto:lorie.fontana@yale.edu)

**Center for Language Study**—This grant fund supports language teaching. Contact Nina Garrett, Center for Language Study, 2-8196, [nina.garrett@yale.edu](mailto:nina.garrett@yale.edu)

**Consortium for Language Teaching and Learning**—These grant funds are for projects like those offered by the Center for Language Study. Contact Nina Garrett, Center for Language Study, 2-8196, [nina.garrett@yale.edu](mailto:nina.garrett@yale.edu)

**ITS Innovation Fund**—The Lumpkin Family Endowment Fund supports innovation and enhancement in teaching and learning through the use of information technologies. Contact Edward Kairiss, ITS

Academic Media & Technology, 2-6637, [edward.kairiss@yale.edu](mailto:edward.kairiss@yale.edu),

In addition, there exist several prizes. One such award is the *Yvonne and John McCredie Prize* for the Best Use of Information Technology in Teaching in Yale College. It is awarded annually to an instructor in Yale College who demonstrates effective teaching and learning through integration of digital technologies into their curriculum. Instructional technology use may be represented in web sites, digital materials, electronic communication environments and other ways.

Individual grant programs are reviewed and administered independently. The Instructional Innovation Grants (IIG) program offers a common application procedure and coordinates application distribution to the appropriate groups for review. Instructors interested in exploring these opportunities should:

- examine the program descriptions to determine if there are appropriate matches for their interests;
- contact the program representatives for an initial consultation;
- review the application guidelines.

*General queries and comments can be directed to IIG program coordinators at [IIG@yale.edu](mailto:IIG@yale.edu).*

## Keeping Research Current: *On-line bibliographic databases for teaching and research*

Putting together a reading list for a weekly seminar can be a time consuming chore. Instructors must review and cull through their personal archives, which often contain thousands of records (remember those things called index cards???) – format the citations in the discipline-specific or journal style – and then typically print out and distribute the list to students. But what about those last minute changes or additions?

William Kelly, in Anthropology, has been using computer databases to maintain his personal bibliographies for years. When preparing the course Web site for ANTH 500b he began to explore the possibility of putting his entire database on-line for use by students. He just needed to find the right technology in order to achieve this goal. Last summer Prof Kelly began experimenting with a new bibliographic database product, called Biblioscape. This application has many advantages over other Windows / PC –based bibliographic applications in terms of performance, multi-lingual support, and the ability to easily publish data sets to the Web.

Prof Kelly's goal in developing an interactive database was based on experience, "I have been giving out hardcopy bibliographies for 19 years, and I was hoping to find a way of making my own data base available to students to be able to use according to their search needs rather than my prefab formula."

Biblioscape offered a technique that would allow Kelly to share his own database directly with students that was easy to use and required no programming skills. Using this application, he is able to make changes to the database and then make the database available by uploading a single file to the classes.yale.edu server. This semester the Biblioscape application is being piloted in

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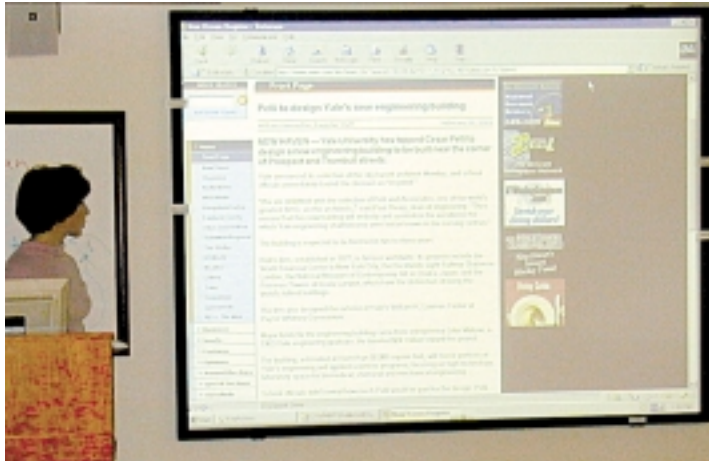


*The new revised version of the Arts and Science Faculty Guide to Academic Media and Technology services was distributed in October 2000. The guide is available in its entirety and most up-to-date version online at [http://www.yale.edu/amt/FAS\\_guide](http://www.yale.edu/amt/FAS_guide). A hard copy can be obtained by contacting [fas-guide@yale.edu](mailto:fas-guide@yale.edu). The goal of the handbook is to provide basic information on the technology services most commonly needed by Arts and Sciences faculty, including services provided by Academic Media and Technology and points to a variety of other service available from other units across the University. Common faculty activities and primary service points are profiled, such as how to establish your course Web page or how to digitize a personal slide collection for mounting on the Web. The handbook is intended as a part guide and part reference work. The goal in AM&T is to meet your needs for technology services and support in academic technology.*

## New Technology Classroom

The new Brewster Technology Classroom, managed by the Statlab, is located in the Political Science Building at 124 Prospect St. The classroom features twelve student workstations and one instructor's workstation, overhead projection, and a full suite of audio visual technical equipment. Seminar tables provide seating for twenty. The workstations are equipped with the full suite of statistical software found in all the Statlab facilities on campus. Primary use of the facility is for classes using computers during scheduled class sessions, with priority to Political Science classes. The Brewster Classroom also functions as a computer cluster when classes are not in session. On evenings and on weekends, the room is designated for use by Political Science graduate students.

The Social Science Statistical Laboratory (the Statlab) provides the pri-



mary computing resource and statistical information center for Social Science teaching, research and quantitative analysis. Statlab facilities provide workstations with extensive statistical software packages not found in other facilities on campus. These facilities are available for formal course use and for workshops, as well as for use by individual students and faculty needing access to specialized software for purposes of research and instruction.

Statlab services include statistical and data consulting, technical consulting, and access to the Social Science Data Archive of the Social

Science Library. Consultants are regularly available for short consultations, and often provide more specialized assistance with longer projects. Among other things, consultants can advise users on the selection and use of program packages on PCs and UNIX, and with the planning and execution of computerized analyses. In recent months, the Statlab has expanded its support of geographic and spatial information and now provides GIS software and consulting services.

The main facility and consultants are located in Urban Hall at 140 Prospect Street, above the Social Science Library. The Statlab Annex, a smaller cluster of Statlab workstations, is located in the Social Science Library, Room B9. The Brewster Classroom is located at 124 Prospect St, basement room B13 (see below). For 24 hour access, three Statlab workstations are located in Dunham Laboratory, 11 Hillhouse Ave. The main Lab and the Brewster classroom may be scheduled for sessions requiring statistical software and hands-on use of the workstations.

For information and scheduling please contact Ann Green, [ann.green@yale.edu](mailto:ann.green@yale.edu) or [stathelp@yale.edu](mailto:stathelp@yale.edu). Visit our website at <http://www.yale.edu/statlab>.

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## What's new at [classes.yale.edu](http://classes.yale.edu)

### *Student Feedback feature:*

At the request of the Teaching and Learning Committee a new feature has been added to the classes server - <http://classes.yale.edu>. At any time during the semester, students can submit feedback about any course for which they are officially registered. Instructors can view the student's comments through <http://classes.yale.edu/teach>. Contact [online.eval@yale.edu](mailto:online.eval@yale.edu) with any questions.

### *Access Feature*

The [classes.yale.edu](http://classes.yale.edu) access feature allows you to grant or restrict access to your course site. One feature is to grant another Instructor or TA access allowing them to update pages as needed. You may also permit people outside of Yale

to view your web pages. Conversely, it can limit access of materials to Yale computers. Giving access permissions for specific folders allows you to set a password of your choosing before students can access the folder's contents. You can further restrict access to only specific individuals. Using the access feature, you can view a list of students who have signed up for your class on the classes server. For instructions and more information go to <http://www.yale.edu/instruct/web/access.html>.

The popularity of [classes.yale.edu](http://classes.yale.edu) continues to grow. At this time there are 564 classes with active websites on the classes server. Online documentation for the classes server can be found at <http://www.yale.edu/instruct/web>. Workshops are available for instructors who

want to create and maintain web pages for their courses. In these short sessions, participants will create a web page for a class, and learn how to add additional text, tables, graphics, and links to other sites. We will also explain the features of the classes server and discuss how to use them in teaching. For more information regarding workshops go to <http://www.yale.edu/instruct/classinfo.html>.

To find out more information contact Gloria Hardman [gloria.hardman@yale.edu](mailto:gloria.hardman@yale.edu), Pam Patterson [pam.patterson@yale.edu](mailto:pam.patterson@yale.edu) or Ed Kairiss [edward.kairiss@yale.edu](mailto:edward.kairiss@yale.edu). Visit our site at <http://classes.yale.edu>. We welcome questions or suggestions at [classes@yale.edu](mailto:classes@yale.edu)

## Center For media Initiatives (CMI )

Paul Lawrence, formerly of Canada's Banff Center for the Arts, has been appointed director of the Center for Media Initiatives (CMI), according to an announcement by Philip Long, acting director of Information Technology Services (ITS)

As a platform for innovation, the CMI intends to advance the state of the practice for use of media across the University. It will identify, generalize and, through its close links to ITS Academic Media & Technology, disseminate innovations to the campus community. The CMI will be integral in coordinating and partnering with similar organizations located in various schools and departments at Yale.

In January of 2001 the CMI announced a call for media proposals directed to faculty wishing to develop electronic media or technology based methods to improve learning



Paul Lawrence

or teaching on campus. The grants offered will provide up to \$50,000 in direct expense support and additional production services from CMI staff for the completion of interactive media projects. Combination of CMI project funding with other fund sources is encouraged.

The Center For Media Initiatives (CMI) includes a Faculty Media Laboratory designed to help faculty explore the latest digital resources for teaching, learning, and research. Located in the ITS building at 175 Whitney Avenue, the lab offers one on one consultation and training with CMI and ITS staff in the use of the Lab's hardware and software options. Recent faculty projects that have been facilitated by the lab include website creation, image scanning, and digital audio and video.

The Lab houses 1 Macintosh workstation (Dual Processor G4), and 2 Windows

workstations. Facilities for digitization include a flat bed scanner with sheet feeder for scanning images and text, a slide scanner for capturing 35mm slides, and peripherals for digitizing VHS video tapes. Software for desktop publishing and optical character recognition, audio, video and still image editing is also available. A wide variety of output media are supported, including Iomega ZIP and JAZ, CD-R and DVD-R.

CMI can help instructors explore technologies that might be useful for in-classroom use. The lab has available an electronic whiteboard system, a digitizing tablet, wireless mouse, and a laptop computer connected to a digital projector. As new classroom technologies become available, staff will endeavor to provide demonstrations and training to interested instructors.

For more information contact Paul Lawrence in the CMI (6-4846, paul.Lawrence@yale.edu,) or Ed Kairiss in the Instructional Technology Group, (2-6637, Edward.Kairiss@yale.edu) or cmi@yale.edu www.yale.edu/cmi

## Electronic Whiteboards in the Classroom

If you use a whiteboard in the class, some new digital technology can help you capture and disseminate your whiteboard notes and drawings. The Faculty Media Laboratory within the new Center For Media Initiatives (CMI) is designed to help faculty explore the latest digital resources for teaching, learning, and research. One of the options available is an electronic whiteboard by mimio (www.mimio.com). Using an ordinary whiteboard in a classroom, notes made on the board can be "captured" for posting on the web or printouts.

The mimio device can digitize the contents of the whiteboard and save it to a connected computer. The mimio connects to the whiteboard via suction cups, electronic sleeves are attached to the markers, and a special eraser is used. The capture bar is connected to your PC or Mac. All of your notes can be saved to your computer to be processed many different ways.

By capturing notes as strokes over time mimio's recording allows you to rewind, fast-forward and playback everything that has been written on the whiteboard in

sequence. This feature lets the user save a whiteboard, clear it from the screen to start over and still recall any previous board or sequence of the whiteboard session. By capturing the information as it is written, the user can show the progress of ideas as they are generated.

Instead of merely reviewing the end-result of notes, future audiences can choose to follow the thought process by viewing a "playback" recreation of the notes as they were written, or at pre-selected points in time that were "tagged" by the presenter.

Students are able to learn more effectively because there is a reduction or elimination of the need to take notes. Everything you write and erase is captured to your computer in color and real-time. This data can then be played back later, uploaded to



the Classes web server or dropped into other applications for editing and printing. In larger lecture halls, your computer connected to a projector as well as the mimio tool will allow you to project on a larger screen what is being written on the whiteboard.

To use the electronic whiteboard system or find out more information contact Pam Patterson, 2-8794, pam.patterson@yale.edu

## Keeping Research Current:

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Anthropology 500b. The current database contains over 14,000 records and is quickly and easily searched by students, who need to type in only key words or the author's name. Adding new records can be done manual or by downloading records from library databases using standardized formats. In using Biblioscope, the actual queries take just a few seconds to parse the

thousands of records. The application automatically indexes every word of every entry when the database is created or updated.

Other manufacturers of bibliographic software have realized the need for Web publishing tools among academic users. ISIResearch, the parent company of ProCite and Endnote has released an equivalent Web database called Reference Web Poster. Interactive, web based applications such as these can potentially make it easier for collaborators, or students working

in teams, to build and maintain shared bibliographic databases.

Based on the initial results, Prof Kelly intends to broaden the use of the bibliographic database for other classes next semester, as well as make changes to the Web interface to make the application even easier to use.

For more information contact Ed Kairiss, Instructional Technology Group [edward.kairiss@yale.edu](mailto:edward.kairiss@yale.edu) or William Kelly, anthropology, [william.kelly@yale.edu](mailto:william.kelly@yale.edu)

## Teaching Innovation Event

On March 23rd, members of the Yale faculty and graduate students will demonstrate their most innovative teaching techniques at the 2001 Spring Teaching Forum, held in the Presidents Room in Woolsey Hall. Starting at noon and continuing until 4:30 in the afternoon, The Forum will feature speakers and panelists talking about and demonstrating a host of teaching innovation, including technology enhanced teaching, collaborative learning, experiential learning, service learning and interdisciplinary teaching projects. At the center of the event, the Innovation Fair will allow participants to roam among different stations, learning about interesting teaching techniques from the faculty members and graduate students who use them. Featured throughout the day will be talks by award winning teaching innovators from the U.S. and Canada. For more information, or to register see <http://www.yale.edu/graduateschool/mcdougal/tfpd>.

This event is sponsored by the Office of Teaching Fellow Preparation and Development, The Spaulding Fund, and Academic Media and Technology Office of ITS.

For more information contact William Rando, [william.rando@yale.edu](mailto:william.rando@yale.edu) or Ed Kairiss [edward.kairiss@yale.edu](mailto:edward.kairiss@yale.edu).

## Academic Media and Technology's Media Services

department provides on-campus audio, video and photographic services for classes, special events, productions and publications. Media Services now offers streaming services for digital audio and video using RealNetworks streaming technology.

Streaming, also known as webcasting, is a term that describes the transmission of specially encoded digital multimedia content—audio, video, animation, graphics, photo images, and text—over the Internet to end users. Streaming allows you to deliver lectures and other events to any networked end user with the appropriate client software or web browser plugin.

Video or audio material can be digitally encoded for streaming by Media Services. The resulting file is placed on a streaming server. By following the appropriate link from your web page, users can view the digital video or listen to the digital audio on their network-connected computers. It is also possible to “webcast” live events, such as lectures or conference presentations.

For examples of streaming video, see some of the multimedia presentations on the Yale Tercentennial site at <http://www.yale.edu/yale300/news/index.html>.

For more information go to <http://www.yale.edu/ms/webcast.html> or contact Michael O'Keefe at 432-0226 or [michael.okeefe@yale.edu](mailto:michael.okeefe@yale.edu).



### *Other ITS Departments*

*Remote Access Support Group (RAS)*  
[www.yale.edu/ras](http://www.yale.edu/ras)

*ITS User Accounts*  
[www.yale.edu/acct](http://www.yale.edu/acct)

*Computer Hardware and Software Sales*  
[www.yale.edu/eportal](http://www.yale.edu/eportal)

*Reprographic and Imaging Services*  
[www.yale.edu/ris](http://www.yale.edu/ris)

*Data Network Operations*  
[www.yale.edu/dno](http://www.yale.edu/dno)

### *Other Units*

*Engineering IT*  
[www.eng.yale.edu/it](http://www.eng.yale.edu/it)

*Center for Media Initiatives*  
[www.yale.edu/cmi](http://www.yale.edu/cmi)

*Center for Language Study*  
[www.yale.edu/cls](http://www.yale.edu/cls)

*Academic Media and Technology*  
[www.yale.edu/amt](http://www.yale.edu/amt)

*Faculty Support Program*  
[www.yale.edu/fsp](http://www.yale.edu/fsp)

*Film Study Center*  
[www.yale.edu/filmstudy](http://www.yale.edu/filmstudy)

*Instructional Technology Group*  
[www.yale.edu/instruct](http://www.yale.edu/instruct)

*Media Services*  
[www.yale.edu/ms](http://www.yale.edu/ms)

*Social Science Statistical Laboratory*  
[www.yale.edu/statlab](http://www.yale.edu/statlab)

*Workstation Support Services*  
[www.yale.edu/wss](http://www.yale.edu/wss)