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NUAR

Bucknell Community Dialogue Day

by Gene Spencer, Associate Vice President for ISR gspencer@bucknell.edu

advanced digital tools (along with effec-

tive classroom technologies) enhance

Brian Hoyt provided the group

beginning language instruction.

"[We] hope that those holding

- students, faculty, staff, trustees will understand that colleges and universities are complex, essential, and precious communities in our national life".

— E. Grady Bogue in Creating Campus Community

our colleges and universities in trust

with an overview of how technology enhances the curriculum (through greater access to information and access to individuals, as well as virtual labs, trips, simulations, etc). He also presented an overview of how technology has transformed the class-

room environment as well as the library environment over the past decade, seeding our thinking about more changes to come over the next decade.

After the presentation, Tom Solomon, Associate Professor of Physics, Mike Weaver, Instructional Technologist-Lead, and Gene Spencer, Associate VP for ISR, joined the panel for a lively discussion with the trustees, faculty, students, and staff in attendance. Those interested in seeing first-hand the application of technology toured various classrooms and the library.

Other versions of the Bucknell Community Dialogue Day will follow on a variety of topics of interest to the entire community.

In conjunction with the November Board of Trustees meeting, a new opportunity was introduced for communication and interaction between Bucknell's trustees, faculty, students, and staff. The first of an ongoing series of "Bucknell Community Dialogue Days" was sponsored by the President's Office on Thursday November 11, 2004 to provide "an opportunity for structured dialogue with the Board of Trustees that provided interaction with and education by the Bucknell Community."

The first such day, which centered around the topic "Technology Transformation," featured Mike Toole, Assistant Professor of Civil and Environmental Engineering, Helen Morris-Keitel, Associate Professor of German, and Brian Hoyt, Director of Technology Integration.

Professor Toole illustrated how technology transformed his teaching through the Blackboard "course management system," the use of digital visual images (of construction drawings and pictures) in the new Luna Insight system, and the use of project management software. Professor Morris-Keitel described how

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Our customer's success is our success

The ISR Collection Development Team: (front row) Dot Thompson, Linda Forster, Patty Housner, and Kathleen McQuiston; (back row) Jake Carlson, Jim Van Fleet, Martha Holland, and Judy Zebrowski

Managing Editor: Mary Jean Woland Editors: Jennifer Clarke, Bud Hiller, Candice Hinckley, Lynda Thaler, James Van Fleet, and Lisa Veloz Photographer: Debra Balducci

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c/o Mary Jean Woland

Information Services and Resources

Bucknell University

Lewisburg, PA 17837

email: isr@bucknell.edu

or call (570) 577-3287

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INSIDE

BUCKNELL COMMUNITY DIALOGUE DAY
Supporting a Community of Learning
Get This Item
LICENSING FOR ELECTRONIC RESOURCES
Meet Adam Kubik5
Printer Usage on Campus
TECHNOLOGY USE IN THE CLASSROOM
KEEPING UP-TO-DATE WITH THE PERIODICALS COLLECTION
GOOGLE SCHOLAR
Today's Tech Lingo, Gadgets, and Gizmos
CREATING A COLLABORATIVE SPACE
Knowledge and Information

Supporting a Community of Learning



by Gene Spencer, Associate Vice President for ISR, *gspencer@bucknell.edu*

During a quiet moment in the Fall Semester, the inscription "Supporting a Community of Learning" was placed over the doorway that leads to the main lobby of the library. This particular location serves as the one spot through which everyone who enters the library must pass. Literally hundreds of students, faculty, staff, parents, prospective students and ISR staff members walk beneath those words each day.

It is probably true that most people do not notice the words above that doorway. Even when they do notice the phrase, "Supporting a Community of Learning" may seem like an obvious note to appear in an academic library on a campus such as ours. Nonetheless, I think it is important for us to reflect on this concept from time to time.

The focus on *learning* is, of course, our reason for being here. While learning happens at many times and in a variety of places, the Bertrand Library is perhaps the most well known (and most often photographed) symbol for learning on the Bucknell campus.

We all live and work in this community called Bucknell. At its very best, it is

"Shared purpose, shared commitment, shared relationships, shared responsibility – the need for community is a primal yearning and a practical necessity in our lives and in our society. A healthy community is one in which essential but often competing values are maintained in tensioned balance."

— E. Grady Bogue in

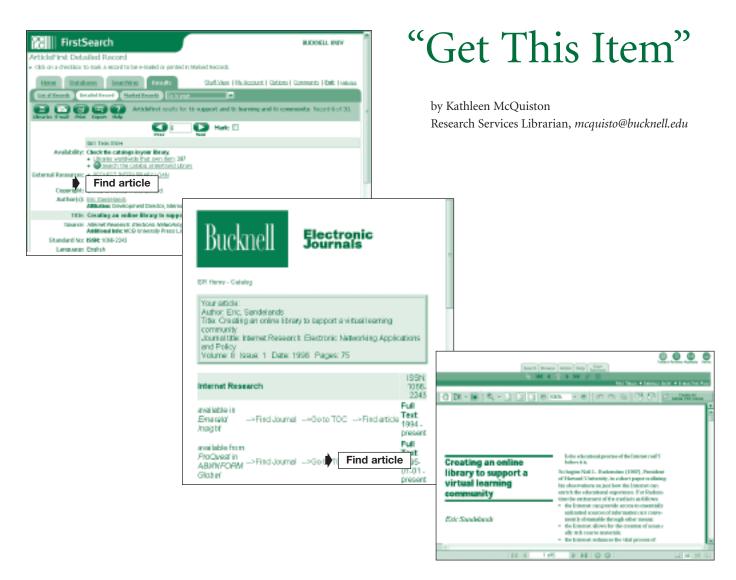
Creating Campus Community

a vibrant and energetic community that operates in "tensioned balance" with each of us understanding and working toward the give and take required for the community to move forward. The issues surrounding this sense of community are so important to our future that President Mitchell chose to call one of the first documents of the new strategic planning effort "Building Community." We applaud him on that focus.

And finally, the role that both ISR and the Bertrand Library play in *supporting* the learning process and the learning community is an important one for us. Our first "value" states that we value our role in the academic mission. It is this work that keeps us energized and makes us proud each and every day.

We invite you to make full use of the many services and resources that we offer and to let us know how we can better support your role in Bucknell's noble mission

Gene



ometimes identifying the perfect article is the easy part of doing research. The more labor intensive part can be getting your hands on the full text. Does the library have it electronically? Could it be available through JSTOR? ProjectMuse? ArticleFinder? How about a more specialized resource like BioOne, PsycArticles, or IEEE? If only there were a quick and efficient way to search all these sources at once. In a number of our citation databases, you can do just that by clicking on the "Get This Item" link. From this link, you automatically search the library's electronic holdings using a new technology called OpenURL resolver.

Following the "Get This Item" links generates a results page indicating if we have the journal title electronically and providing a link to retrieve any article available in a full-text database. There is also a link to the Bertrand Library Catalog. This "Bertrand Library" link executes a search for the journal title in the catalog, making it easier to determine if we have the title in print.

If you don't find the article in electronic form, there is a link to ILLiad, our interlibrary loan system. Clicking on that link fills in the citation information into ILLiad. All you need to do is supply your username and password and hit the "Submit Request" button. No more typing in all that citation information!

An additional link will search for the article in Google. While most periodical articles are available only through the web on a subscription or pay-per-use basis, there are a growing number of open access titles, freely available to all readers.

OpenURL resolver is a relatively new technology, and not all databases are configured to work with it. The good news is that more and more vendors are acknowledging the benefits of making their products work with this technology. As they do, you will see the "Get This Item" link appear in more of our databases.

LICENSING for ELECTRONIC RESOURCES

by Jake Carlson, Librarian/Coordinator of Electronic Resources and Government Documents, *jcarlson@bucknell.edu*. and Kathleen McQuiston, Research Services Librarian, *mcquisto@bucknell.edu*

Connecting people with the information they need used to be fairly straight-forward. We purchased a book or journal, cataloged it, and then put it on our shelves. The use of library material has always been governed by

copyright law which, although vague in certain instances, provided a uniform framework for libraries to provide access to their resources.

The internet brought tremendous changes to how people search for and access information. It also had a profound effect on how libraries provide information, and it changed the rules and regulations governing how libraries and people access a library's resources.

In support of the academic mission of Bucknell, Bertrand Library acquires electronic databases and other online resources that provide access to over a hundred databases, tens of thousands of electronic journals, and millions of journal articles. In contrast to our ownership of printed books and journals, the library in many cases does not own the electronic resource. Instead, the library purchases access to the resource for the current faculty, staff and students of Bucknell while the vendor of the product retains ownership. In purchasing access to an electronic resource, the library negotiates and signs license agreements with the vendor. It is the contractual agreement between the library and the vendor, not copyright law, which is the

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It is important for you, as a member of the Bucknell community, to understand and comply with the terms and conditions of these agreements.

If the terms of the agreement are broken by one of our users, the result may be the entire campus losing access to the resource. Although the restrictions vary by resource, the provisions that we negotiate into every contract are similar.

- Use is restricted to current Bucknell students, faculty and staff. In some cases the resources can also be used by visitors who are on campus.
- Use is restricted for personal educational or research use. Users may not share copies of these materials with people from other institutions.
- Use of these resources for commercial purposes is not allowed.
- Systematic downloading, archiving or distributing information from these sources is prohibited. This includes saving large segments to your computer, posting the information on a website, or sending it to an email list server.

If you have questions about the appropriateness of what you want to do with electronic resources, contact the reference desk or Jake Carlson at x7-1998 or *jcarlson@bucknell.edu*.

MEET ADAM KUBIK

by Lynda Thaler, Library Technical Assistant, Ithaler@bucknell.edu

Adam Kubik is a man on a musical mission. As a casual employee, hired as the Project Music Cataloger, Adam is focused on cataloging approximately six thousand scores housed in the Music Library. The library's catalog will now provide online access for searching these musical scores. The project is made possible by a generous donation to the University.

After an unusual mix of undergraduate and graduate studies in the sciences, German, and music, Adam recently earned his master's degree in library science from the State University of New York at Buffalo. Given Adam's career goal as a music cataloger, we are fortunate that our need and his specialized skill are in perfect harmony.

Printer Usage on Campus

by George Lincoln, Learning Spaces Team Leader, lincoln@bucknell.edu

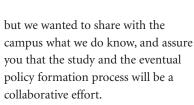
ave you ever noticed the large stacks of printed material in computing labs that go unclaimed? Have you seen the reams and reams of paper that are consumed? It's an issue that concerns the Environmental Advisory Committee, ISR staff and students who see the consumption and the waste, and anyone sensitive to conservation issues.

Over the past two years, some interested and concerned staff in ISR have been compiling statistics on print usage. One of the statistics we gathered is that 90% of all lab users have printed fewer than 500 pages over the course of a semester. The other 10% of users have accounted for 40% of lab printing on campus. The Environmental Advisory Committee and the Committee on Academic Computing both agree that the waste needs to be reduced. In fact, both the EAC and CAC were instrumental in moving to a duplex print model as a standard from campus labs.

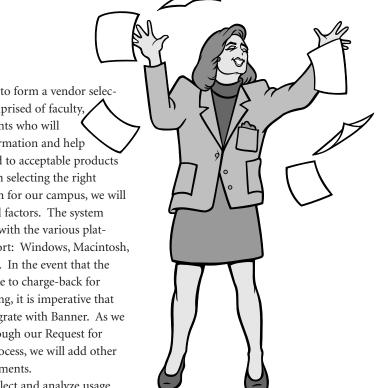
ISR is currently in the process of developing a Request for Information from vendors that will lead to a formal proposal process for a print metering system. Such a system will be used to educate users, monitor print usage volume, and, we hope, curtail unnecessary and wasteful printing. We too will be educated, and we expect the monitoring of print usage to open a dialogue, which will help us better understand printing patterns among various groups of lab

users. We plan to form a vendor selection group comprised of faculty, staff, and students who will review the information and help narrow the field to acceptable products and vendors. In selecting the right metering system for our campus, we will consider several factors. The system must integrate with the various platforms we support: Windows, Macintosh, Sun, and Linux. In the event that the decision is made to charge-back for excessive printing, it is imperative that the system integrate with Banner. As we learn more through our Request for Information process, we will add other specific requirements.

After we collect and analyze usage data, we might be able to use the print metering system to offset the cost of excessive printing. One possibility is to charge back to the user the cost for pages printed beyond a pre-determined reasonable amount. As mentioned above, if 90% of the campus prints 500 pages or fewer per semester, then perhaps that might be the number allotted per student. However, if that other 10% consists of mostly graduate students and honors thesis students, who print closer to 900 pages a semester, then a higher quota might apply to them. We hope that the educational phase of the metering project is effective and leads to users curtailing their printing, thereby reducing the paper waste that is evident in every lab in the form of unclaimed print jobs. We don't know all the details yet,



Either through education, or through charge-back, we can invest the money saved by waste reduction in additional or enhanced resources, such as faster or more reliable printers. We are looking forward to beginning this environmentally and economically helpful process and will keep the campus apprised of our progress.



Technology Use in the Classroom

by George Lincoln, Learning Spaces Team Leader, lincoln@bucknell.edu
Mary Beth James, Instructional Technologist, mbjames@bucknell.edu
Helen Morris-Keitel, Associate Professor of German, hmorris@bucknell.edu

Faculty and students use various technologies in the classroom to support the teaching and learning process. Students often develop classroom presentations that incorporate content from several different sources, such as clips from VHS tapes or DVD's, songs from CD's, or video clips embedded in PowerPoint presentations. Faculty and students change sources seamlessly, using technology for illustration, which aides the learning process. The AMX control systems that are a standard component in classrooms aid these seamless transitions. The user gains access to all of the media and computer components in the room through a consistent, logical interface. This interface certainly plays a role in the increasing sophistication of their presentations.

In many of the language courses taught at Bucknell, and in all of the German courses taught by Professor Helen Morris-Keitel, only the foreign language is spoken - even in the 100level courses. How is this possible? Technology! Web pages designed by ITEC, in consultation with the faculty, help foster comprehension and vocabulary building by using visual representations instead of English words. Professor Morris-Keitel uses many materials she gathers from her travels – photos, music, video, books, newspapers, menus, train schedules – combined with technology, to give students the feel of Germany while still in the classroom. Sometimes technology plays a part in the presentation of the material, sometimes in the

delivery of material to the students, and sometimes in how the students use technology as a tool to complete the assignment.

Following are some examples of classroom activities and the technology that supports them:

- Chat rooms, discussion boards, and email exchanges with students at Bucknell or in Germany. Technology: Blackboard
- Self correcting drill and practice exercises that allow the students to preview, practice and review material until they are confident. Technology: the web, scripts for creating text and graphic exercises.
- Students view commercials taped from German TV broadcasts, and then discuss the differences with American TV commercials. The students then mimic the style of the German commercial to introduce an American product, creating their video in German, of course. They must write the script, act, record and edit their commercials, and then present them to the class. Technology: multi-standard VCR, digital video cameras, video editing software.
- A map of Berlin with current photos, available at a click, of various buildings and locations gives students an architectural sense of the city. Lyrics to songs with pop-up glossaries and graphics increase listening comprehension skills. Technology: the web, scripts, web design software, audio editing software.

Students also learn to navigate their



way through the German train system. They go to the official "Deutsch Bahn" website and plan a trip throughout Germany. Then they add information about each city they "visit" by using that city's website.

Almost any item or medium can be used for instruction, with innovative faculty and staff and the installed technology making it all possible.



By Kathleen McQuiston Research Services Librarian, mcquisto@bucknell.edu

he new carpet and furniture are not the only changes taking place on the second floor of the library. Last semester the science and engineering departments undertook their Core Journal Reviews and made some significant changes to the journals in their disciplines for 2005.

The Core Journal Review process was initiated by the University Library Committee to identify and document the current status and anticipated needs for the journal collection. Since needs change due to faculty turnover, variations in curricular emphasis, and the quality or availability of various publications, each department conducts a review of the titles the library subscribes to every three years. For more information about the Core Journal Review initiatives, follow the link from the ISR homepage to About ISR > Advisory Committees > ULC.

As a result of the reviews, thirty-nine new titles were requested and thirty-nine were identified for cancellation.

In several departments, faculty members indicated they preferred an electronic subscription rather than a print one. While we make every attempt to obtain journals in the preferred format, some publishers require unacceptable licensing conditions for the electronic versions. For example, unenforceable restrictions may be required or archival access may be denied if we subsequently cancel the subscription. In such cases, we would opt to enter a subscription for the paper rather than the electronic version.

In addition to the changes resulting from the ongoing reviews, there were also some additional titles requested by faculty that were added to the collection. The library also reviewed and cancelled a number of journals in the areas of library and information sciences.

The list of the journal subscriptions added and cancelled for 2005 follows:

New Titles from Core Journals Reviews

Annual Reports in Medicinal Chemistry

Annual Review of Cell and Developmental Biology

Applied & Environmental Microbiology*

ASEE Journal (Prism) Biophysical Journal*

Cancer Cell* Cell Online*

Chemistry and Biology Clays and Clay Minerals Colloids and Surfaces A Colloids and Surfaces B Conservation Biology

Ecosystems Electrophoresis

Environment Building News

Environment Building News Archives (cd-rom)

Freshwater Biology

Frontiers in Ecology and the Environment

Geobiology Immunity*

Journal of Bacteriology*
Journal of Biomolecular NMR*
Journal of College Science Teaching
Journal of Evolutionary Biology
Journal of Fluid Mechanics*

Journal of Geophysical Research - Atmospheres Journal of Residuals Science and Technology

Journal of the North American Benthological Society

Nature Immunology* Nature Medicine* Nature Online*

Proceedings of the Institution of Civil Engineers: Engineering

Sustainability.

Proceedings: Biological Sciences (Royal Society)

Science Online*

Society for Industrial and Applied Mathematics Academic

Collection

Structural Engineering International

Trends in Immunology Trends in Plant Science Water Resources Research*

Additional New Titles

Gender and Development*

Labor: Studies in Working-Class History of the Americas

Natural Language and Linguistic Theory

Radical Philosophy Violence Against Women*

Cancellations from Core Journal Reviews

Accident Analysis and Prevention

Advances in Catalysis Aerospace America

Australian Journal of Chemistry Basic Petroleum Data Book

Biological Journal of the Linnean Society

Canadian Geotechnical Journal

Canadian Journal of Chemical Engineering Catalysis Reviews : Science and Engineering

Cement and Concrete Research

Chemistry Letters

Computers and Chemical Engineering

Engineer

Environmental Report Evolutionary Anthropology Helvetica Chimica Acta

Heterocycles

Inorganica Chimica Acta Journal of Catalysis

Journal of Experimental Marine Biology & Ecology

Journal of Supercritical Fluids

Journal of the Marine Biological Association of the UK

Life Sciences

Macromolecular Syntheses Magazine of Concrete Research Marine Ecology Progress Series

Platt's Energy Business and Technology

Portable Design

Reviews in Chemical Engineering Separation Science and Technology Software & CD-ROM Reviews on File

Synthesis

Synthetic Communications

Talanta

Theilheimer's Synthetic Methods of Organic Chemistry

Virology Waste Age

Zeitschrift fur Anorganische und Allgemeine Chemie

Zoological Journal of the Linnean Society

Additional Cancellations

Bulletin of the American Society for Information Science and Technology

Computers in Libraries

E-media

Internet Connection Library Hi Tech News Online∑ PaLA Bulletin Serials Librarian

Video Librarian

^{*} electronic versions

GOOGLE SCHOLAR??

While it may sound like an oxymoron, Google has developed a new search service called Google Scholar. According to their website "Google Scholar enables you to search specifically for scholarly literature... from all broad areas of research."

Give it a try at http://scholar.google.com

Google Scholar is still in development so stay tuned for more details.

Today's tech lingo, gadgets,

Do you feel overwhelmed by today's ever changing technology? Does it feel that every new tool you learn about is almost instantly replaced by something that is faster, smaller, and more feature-rich?

You are not alone! Staying abreast of today's gizmos and gadgets looms as an overwhelming task. In this article we explain some of the latest entries in the world of technology. Throughout the upcoming year, we will provide, in our electronic newsletter iNews, information and insights on many of the latest technology gadgets and lingo.

FLASH DRIVE (also called thumb drives, USB keys, memory keys): Small, portable storage device that fits into the USB slot of any computer, holds 16 megabytes (16mb) to 1 gigabyte (1gb) of information. A floppy disk holds only 1.4mb! Prices vary by capacity, but a truly useful 256mb key costs around \$30.



TIVO: Think of TiVo as a brilliant digital VCR, which allows the recording of up to 80 hours of TV on its hard drive and offers a host of advantages which multiply tenfold with a subscription to the basic TiVo service. You can record 40-140 hours of your favorite entertainment without videotape, plus pause, rewind, slo-mo and instantly replay live TV. When you subscribe, TiVo automatically finds and records the entertainment you want to watch, and suggests related programming you might like to see. Price: \$99-299 for the digital video recorder, plus \$13/month (or \$299 lifetime) for the TiVo service.

MP3 PLAYERS (iPods): For most people, the mp3 format is the best mix of sound quality and small file size, with most songs ranging from 3-5mb in size. An mp3 player allows you to download all of the songs from your computer and take them with you. Small, light, and capable of great sound, the iPod is the best known mp3 player (and the most expensive). A player can hold 1 to 5000 songs. The iPod mini (1000 songs) costs around \$250.

and gizmos

by Jeannie Zappe, Director of Service Integration, <code>jzappe@bucknell.edu</code> Lisa Veloz, Technology Support Leader, <code>lveloz@bucknell.edu</code>



Prices: \$30 to \$50/month.

HANDHELD/PDA (Blackberry, Palm): Handhelds, or PDAs (Personal Digital Assistants), have come a long way. If your PDA has a wireless card, you can now track your schedule, do email, surf the web, upload Word documents, type on an extended folding keyboard, or download songs and photos. Some even have digital cameras or phone capability. Blackberries were the

first handhelds to capitalize on the wireless option. They are slightly larger and have small keyboards. Prices: \$150-400.

BROADBAND CONNECTION (cable modem, DSL): Rather than dial up a connection to the Internet, broadband offers a constant connection that can be 3 to 50 times faster. You need a cable or DSL modem that is attached to your Internet provider, either the cable company or the phone company. Both options allow fast connections that free up your phone line.

WIRELESS (wireless card, routers): Your computer can have a wireless card that allows access to the Internet even if it is not directly connected with a cable or phone line to a network. Primarily used for laptops, wireless is great for checking email in a coffee shop or on another part of campus, but it's not as fast or as secure as a wired connection. If you have a broadband connection in your home, you can get a router, which splits your connection between multiple computers, including sending a wireless signal to your laptop in another room! Prices: \$20-\$30 for a wireless router; \$20-\$50 for a wireless card.



HDTV(high definition television): A normal TV picture contains 480 lines per inch, but HDTV displays at 720-1080 lines per inch, resulting in a sharper, clearer picture. You need an HD television to display the signal, which is broadcast by only a few stations at present, but will eventually be the standard for all broadcasts. Prices for HDTVs vary, but can start at \$1500 and go up to... how large a TV do you want?

CAMERA PHONES: The latest in cell phone technology is

the increasingly popular
"camera phone." These
phones allow you to take digital photos with your cell
phone. The photos are stored
on the phone and can be sent
via email or downloaded to
your computer. This technology
is still developing, and thus the
quality of camera phone photos is
fairly poor. Prices cover a wide range
starting from about \$100.

Want to learn more about these technologies? Looking for something else that your

cousin, brother, friend or colleague was telling you about? Check out one of these web sites for more information on the latest technologies: WhatIs.com – the leading IT encyclopedia and learning center: http://www.whatis.com or CNET – http://www.cnet.com.

CREATING A COLLABORATIVE LEARNING/STUDY SPACE IN THE LIBRARY

by Jason Snyder, Research Services Librarian/Student Outreach Coordinator, *jcsnyder@bucknell.edu*

If you haven't visited Level 2 of the Bertrand Library lately, you might be surprised by some of the changes that happened over the winter break. The study area near the Periodicals Desk has been reconfigured to serve as a collaborative work space where library users can meet to work on projects, presentations, and assignments, or just hang out and study in a comfortable atmosphere.

To help ISR figure out how to reconfigure this area, we placed a large flip chart in the periodicals area so that library users could add their suggestions about the redesign. ISR staff also consulted with a group of students:

undergraduates Chris Stokes '06, Meredith Calfe '06, Danielle Brown '05, and Alyssa Gross '05, and graduate students Sean Martin and Carrie Walker. This talented group met with ISR staff to serve as a voice for the student body and provide first-hand insight into how today's Bucknellians prefer to work and study.

The information we gathered helped ISR work with Procurement Services to transform this space. The area, formerly occupied by single-user study carrels, now features comfortable couches and pneumatically-controlled end tables that can be raised and lowered to suit users'

needs. Also included are customizable tables which can be arranged in a multitude of configurations to create whatever sort of study setting users desire. Capping off the new study area are moveable white boards, which can be used to draw up plans, make notes, or serve as barriers to section the area off into several meeting "rooms."

Stop by Level 2 the next time you're in the library, and have a look at the results of the collaborative redesign efforts. We hope that this transformed area proves to be useful for all of the library's patrons.



The Challenges in Scholarly Communication by Dot Thompson, Librarian, *dthompsn@bucknell.edu*

For a number of years, ISR has sponsored a "Knowledge and Information" series. We have hosted varied speakers including the Director of the Library of Congress, numerous authors, technologists and futurists, and fine press editors for these well-attended programs. The tradition continues this April when Henry Hagedorn, Professor of Entomology at the University of Arizona, will speak on the challenges in scholarly communication. Professor Hagedorn

resigned as editor of *The Archives of Insect Biochemistry and Physiology* in order to form *The Journal of Insect Science* (http://www.insectscience.org/), a free online journal with no print edition. The journal's guiding principle is that academic institutions should be involved in publishing scholarly work with as few impediments as possible to free access to information. *The Journal of Insect Science* is a "Leading Edge" Partner of SPARC (The Scholarly

Publishing and Academic Resources Coalition:

http://www.arl.org/sparc/index.html), an association of 180 academic libraries, including Bucknell, dedicated to encouraging alternatives to commercial publishing of academic work. The critical issue of scholarly communication is of vital interest to all of us in the academic community. Please mark your calendar now for this April 15 event and plan to attend.