UNIVERSITY OF MINNESOTA

Office of Information Technology

February 2002

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Information Technology

Newsletter

Bringing HEAT Up North

Exploring New Landscapes for Administrative Technology: the 47th CUMREC

CUMREC 2002: excerpts from the invitation

**May 12–15, 2002
Hyatt Regency, Minneapolis**

Mark your calendars! CUMREC 2002 will be in Minneapolis, Minnesota, May 12–15, 2002. The University of Minnesota and the Minnesota State Colleges and Universities (MnSCU) invite you to attend a meeting sure to offer a positive and enlightening experience for all. The conference will take place at the Hyatt Regency on the Nicollet Mall in the heart of downtown Minneapolis.

The CUMREC 2002 Program Committee, supported by Local Chair Kari Branjord, will offer multiple tracks and preconference seminars on Sunday. You'll find cool solutions to your hottest problems — technological, administrative or managerial.

Besides the valuable opportunity to network with other CUMREC participants, one of the best features of the conference is meeting with corporate participants presenting their latest offerings. We look forward to seeing you!

■ Mark Powell, OIT Applications Development and Maintenance as well as General Chair, CUMREC 2002, http://www.cumrec.org/cumrec2002/

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**a CUMREC 2002 keynote speaker:
Robert (Bob) Kvavik, Associate Vice President,
Office of the Exec VP and Provost**

What is CUMREC?

About CUMREC from http://www.cumrec.org/

CUMREC, an affiliate of EDUCAUSE, is a Higher Education Administrative Technology Conference.

The purpose of CUMREC is to provide a forum for higher education professionals to share their expertise and experiences with computer systems in our ever-changing world of technology. The CUMREC Annual Conference, founded in 1956, is the longest running continuing conference devoted to promoting the understanding and use of information technology in higher education.

In 1992, the conference name was changed to the College and University Computer Users Association, while retaining the CUMREC (College and University Machine Records Conference) acronym used since 1956.

CUMREC 2002

▼ **Registration:** available soon.
Higher fees begin after April 12, 2002.

▼ **Call for Proposals:** closed.
Notification to lead presenters of all proposals is expected to take place by February 15, 2002.

▼ **Target audience:**
The target audience for CUMREC includes information technology and campus administrative professionals. These professionals share their expertise and experiences with administrative systems implementation and support both from the technical and functional viewpoints. Administrative systems of primary focus include student, human resource, and financial systems.

CUMREC track descriptions

Each proposal will be evaluated in one of the tracks listed below.

Application Development and Case Studies
- Technological trends and innovations
- Reengineering
- Implementation strategies
- Student- and business-application case studies
- Supporting operations
- Development methodology

Building Effective Partnerships
- Working with consultants
- Support for the academic enterprise
- Collaboration with non-traditional partners
- Outsourcing and shared services
- Supporting distributed computing services

E-Solutions
- Web portals
- E-business and e-commerce solutions for the enterprise
- Web security
- User interface design and navigation
- Application development

Enterprise Resource Planning (ERP)
- Lessons learned
- Build versus buy
- Functional engineering/reengineering
- Gap analysis
- Data mapping and conversion
- Change management/version control
- Team building and project management
- Managing metadata

Information Access and Delivery
- Security and authentication
- Enterprise information-resource management
- Data warehousing solutions
- Workflow management
- Integration of e-mail with business applications
- Document imaging solutions

Management Issues and Challenges
- Current issues in higher education
- Developing and retaining staff
- Managing technical architecture
- Reorganizing to meet growing expectations
- Budgeting
- Project management
- Help desk
- Managing high-availability applications (24 x 7 applications)

This and more information is available from
http://www.cumrec.org/
http://www.cumrec.org/cumrec2002/ ■

Don't Confuse Our Faculty

a periodic column

We're confusing our faculty! We talk about technology enhanced learning (TEL), and we talk about distance education and online learning, but what are we really talking about? We need to make a clear distinction between these, and stop confusing our faculty.

So, what are we talking about when we talk about TEL? Technology Enhanced Learning is an ongoing process of incorporating technology into the teaching and learning mission of the University. TEL is about using technology to enhance on-campus instruction; it's not about totally replacing it. TEL is not distance education and online learning.

Distance education and online learning is a different animal all together, requiring a totally different strategy. It has the mission of providing education to students entirely apart from on-campus instruction. The focus is radically different, and it requires a faculty and staff that is devoted fulltime to its mission. The audience for distance education and online learning is totally different, and there are marketing and business issues to consider.

It is not fair to burden our faculty with these issues nor is it the faculty's job to decide these issues. The vision, leadership and the strategy for distance education and online learning must come from central.

TEL and distance education/online learning are significantly different, and we only confuse our faculty when we mix them together.

In order for distance education and online learning to truly succeed at the University, I believe there needs to be a clear strategy and strong leadership, otherwise we run the risk of exerting a lot of effort and investing a lot of money but producing few positive results. I believe distance education and online learning needs to have its own chancellor, someone who can dedicate their time to its unique challenges and issues.

Technology Enhanced Learning

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Distance Learning

■ Shih-Pau Yen, Academic and Distributed Computing Services

(The views expressed in this column are the personal opinion of the author and not the official view of the Office of Information Technology.)

Digital Media Center: update

We've moved

The Digital Media Center (DMC) moved back to the newly renovated Walter building on Monday, January 14, 2002. The DMC's new location is

Room 212
Walter building
117 Pleasant Street S.E.

Our phone number (612.625.5055) and fax number (612.625.9302) remained the same.

Spring TEL seminars

This semester the TEL (Technology Enhanced Learning) Seminar Series features the participants in the 2001-2002 Digital Media Center's (DMC) Faculty Fellows Program.

☐ To learn more about the series and to read presentation descriptions, visit: http://dmc.umn.edu /services/seminar-series.shtml

☐ To learn more about the Faculty Fellowship Program, visit: http://dmc.umn.edu/fellowship /fellowship.shtml

Table 1 is a brief overview of the Spring 2002 presentations.

■ Barbra Masters, Digital Media Center

Table 1: Spring 2002 TEL Seminar Series

■ **February 8, Friday • Peter Dimock**
- School of Social Work, College of Human Ecology, Twin Cities
- Presentation: Faculty Guide to TEL and Online Course Development
- Fireside Room, 274 McNeal Hall, St. Paul, noon to 1:30 p.m.

■ **February 27, Wednesday • David O'Brien**
- Department of Curriculum and Instruction, College of Education and Human Development, Twin Cities
- Presentation: Instructional Technology Management Certificate Program
- 165 Peik Hall, East Bank, noon to 1:30 p.m.

■ **March 28, Thursday • Cari Michaels**
- School of Social Work, College of Human Ecology, Twin Cities
- Presentation: Web-based CAPS Certificate Program
- 155 Peters Hall, St. Paul, noon to 1:30 p.m.

■ **April 17, Wednesday • Barbara Martinson**
- Department of Design, Housing, and Apparel, College of Human Ecology, Twin Cities
- Presentation: Web-based Materials for Two Design Courses
- 155 Peters Hall, St. Paul, noon to 1:30 p.m.

Soon: video streams of TEL seminars

Cannot attend the series in person? You will be able to view video streams of the TEL Seminar Series presentations anytime on the DMC Website.

The February 27, March 28 and April 17 seminars will be simulcast and available in Realplayer format. To link to a presentation visit: http://dmc.umn.edu/services/seminar-series.shtml

Theses videos will be prepared by DMC staff members with the help of our new video production staff members and ADCS (Academic and Distributed Computing Services) staff members.

Minnesota Mapping System

Provides new access to data at the Borchert Map Library

Kimberly C. Kowal, Borchert Map Library, University Libraries

Borchert Map Library

The John R. Borchert Map Library is currently working on organizing and making available for distribution a tremendous amount of geospatial data on the natural and cultural environment of Minnesota.

Entrusted to the library by the University's Center for Urban and Regional Affairs (CURA) with the intent of making it publicly accessible, the data should be available via several methods, including a mapmaking system in the Automated Cartographic Information Center (ACIC), a staffed computer facility located within the map library.

Minnesota geospatial data

The data, totaling 35 gigabytes, includes most prominently 20 datasets, or topical 'layers' of information. Wide-ranging in scope, it is likely to interest primarily natural scientists as it offers extensive information related to land features and conditions, including soil type, geomorphology, pre-settlement vegetation, erosion susceptibility, forest cover and slope.

It may also serve cultural and social needs with statewide data on land use, demarcations of a number of political boundaries, roads and trails and classifications of "scenically attractive" areas. Raster imagery such as digital orthophotos and topographic line maps accompany the maps. Much of the data was collected in the mid-1990s from various state and federal agencies, notably the U. S. Geological Survey (USGS) and the Minnesota Department of Natural Resources (DNR); and it is public information distributed in a number of formats and via numerous projects.

Science Museum of Minnesota

Before being transferred to the Borchert Map Library, the data was maintained by the Science Museum of Minnesota and applied in several projects. A "Map Lab," launched with the support of Environmental Systems Research Institute (ESRI), DNR and CURA, was established at the museum in 1997 with the mission of educating the public in Geographic Information Systems (GIS).

Sustainable Lakes Project

An initial project at the lab was the Sustainable Lakes Project, a two-year effort initiated in 1997 in collaboration with the Minnesota Lakes Association and CURA. This project sought to coordinate lake management planning in Minnesota, and involved gathering data about the major factors contributing to the quality and characteristics of state watersheds.

Watershed information

A 'Watershed Atlas' made up of 21 watershed resource maps, as well as the 'Sustainable Lakes Workbook,' were produced.

The data also provided groundwork for an exhibit and activity space at the museum in December 1999 entitled "Find Your Watershed" for the ArcView GIS-based application developed for public viewing of the data. That application was formulated with the object of introducing GIS technologies to visitors as well as using the data in a watershed management framework and educating the public about resource characteristics in an interactive, browseable format.

Minnesota Mapping System

The means by which the Borchert Map Library will distribute the data is still being negotiated, but most likely it will be served via an application called "Minnesota Mapping System" using ArcGIS on a dedicated terminal in the ACIC.

This GIS-based mapmaking system is currently being designed by Suteera Wiseskul, a student in the Master of Geographic Information Science (MGIS) Program, working with George Orning, Research Fellow at CURA, and Brent Allison, Head of the Borchert Map Library.

Entrusted to the library by CURA, with the intent of making it publicly accessible, the data should be available via several methods.

Create custom maps

Users will have the ability to create custom-made maps on demand, with the option of printing them using the library's large-format plotter, a color DesignJet purchased by the library in 2001. The application is meant specifically for mapmaking; and the data have been prepared accordingly: classified, supplied with corresponding legends, and presented in cartographic layouts with scale and directional notations.

Automated Cartographic Information Center

Although the Automated Cartographic Information Center is staffed by MGIS students, operation of the system should require minimal guidance; users wishing to conduct advanced GIS operations may export files as .mxd files (ArcMap documents). In addition to Wiseskul's system, a number of other storage and distribution methods are being considered, including interactive mapping and PDF files on the Web, as well as FTP and CD-ROM.

The "Minnesota Mapping System" will complement the electronic geospatial data collection and services already maintained at the ACIC. At present, the ten-workstation GIS and mapping lab serves a variety of cartographic needs, including Census mapping, a CD-ROM collection of local and federal government data and commercially-produced data, and assistance with the lab's hardware and software.

Established with the support of a grant from the U. S. Department of Education in 1992, the facility has grown beyond its initial purpose of providing means to map the 1990 Census data. GIS software is loaded on all terminals: ArcView, MapInfo, or most recently added on select machines in the lab, ArcMap 8.1, and standard applications including graphic software, Internet access and other desktop tools are provided.

More resources

Of the digital resources stored in the ACIC, most heavily used are the 2000 digital orthophotos of the Twin Cities metro area provided by the Metropolitan Council, and the DOQs (Digital Orthophoto Quadrangles) for the state of Minnesota produced by the USGS. Many maps previously available only in paper are also now stored on CD-ROM, including the Minnesota Trunk Highway Traffic Volume Maps from the Minnesota Department of Transportation and the Digital Raster Graphics of USGS topographic quadrangles. In addition to electronic data and software, the facility also has a collection of instructional materials about GIS, including both manuals and CD-ROMs.

The Library is pleased to provide storage and access to the CURA datasets, which are expected to be available for public use by February 2002. To inquire further about the project or the data sources, call Brent Allison at the Borchert Map Library: 612-624-0306.

■ Communications about this article can be addressed to: Kimberly Kowal, Librarian, Borchert Map Library, S-76 Wilson Library, West Bank; 612-624-0306.

For more information

- ESRI (2000), GIS at the Science Museum of Minnesota: 10,000 Lakes, Unlimited Maps. ArcNews online. Online. Available at http://www.esri.com/news/arcnews /fall00articles/10000lakes.html

- Karypis, D. (2000), Find your watershed activity for the Science Museum of Minnesota's Map Lab. Thesis. Department of Geography, University of Minnesota.

- West, P. and G. Orning (2000), Sustainable Lakes Project: A Lake Management Model for the Future. CURA Reporter 30(4): 15-22. Online. Available at http://www.cura.umn.edu/reporter/pdf /2000-Dec.pdf

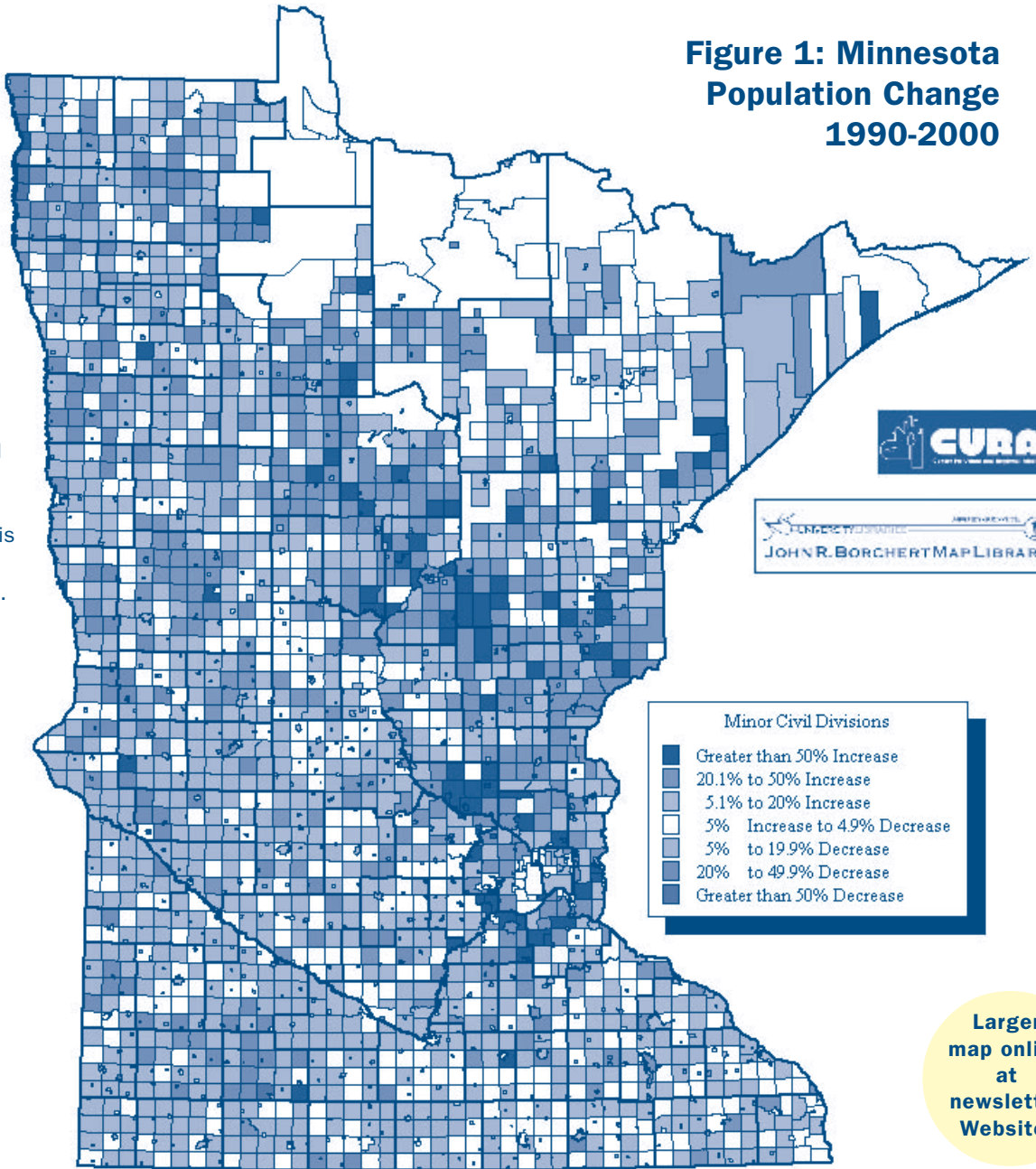## Figure 1: Minnesota Population Change 1990-2000

This map shows that most growth occurred in the Seven County Metropolitan Area and surrounding counties.

• Over 150,000 homes were added per year.

• Outstate growth is amenity related (hills, trees, water).

• Lake regions dominate growth.

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Source:
U.S. Bureau of the Census, 2001

Map by
Brent Allison.

CURA

JOHN R. BORCHERT MAP LIBRARY

Minor Civil Divisions

■ Greater than 50% Increase
▨ 20.1% to 50% Increase
▧ 5.1% to 20% Increase
□ 5%   Increase to 4.9% Decrease
▧ 5%   to 19.9% Decrease
▨ 20%   to 49.9% Decrease
■ Greater than 50% Decrease

Larger map online at newsletter Website.

Spring Training 2002 ✆ ✆ ✆ New Courses from ADCS

We are offering many new short courses this Semester, as shown below. For a complete list of all the courses — ongoing, revised and new — visit the ADCS Website: http://training.micro.umn.edu/ShortCourses/

✆ Access 2000: Skills Practice Lab — Windows .... May 7,8,9
✆ Creating Course Web Sites: WebCT 3 Assignments — Windows and Macintosh .... March 1 and April 16
✆ Creating Electronic Presentations: PowerPoint 2000 Survival Skills — Windows ....May 7
✆ Enhancing Learning with Technology: Using Digital Storytelling — 3 hour seminar .... April 2
✆ Email Service Updates — 1 hour seminar .... Feb 14, March 13, April 19
✆ Excel 2001/XP: Level 1 — Windows and Macintosh .... March 12,13,14
✆ Flash 5: Creating Interactive Learning Activities and Presentations — Windows and Macintosh .... March 27,28,29
✆ Flash 5: Using ActionScript — Windows and Macintosh .... April 19
✆ ImageReady 3: Techniques for Web Developers — Windows and Macintosh.. April 24
✆ PowerPoint 2001/XP: Level 1 — Windows and Macintosh .... March 5,6,7
✆ Word 2000: Macros — Windows... April 10
✆ Word 2001/XP: Level 1 — Windows and Macintosh .... Feb. 26,27,28

▼ Help   Phone: Area Code = 612

Computer Misuse or Abuse (also see Procedure 2.8.1.1)
- Emergency Network Help Line 625-0006
- Non-emergency, e.g., spamming: `abuse@umn.edu`

1–HELP •24/7 unless otherwise noted 612-301-4357

Dial 1-HELP. Listen to the voice menu list of options.
Press the number of your desired option.

- Technology Help: `http://www.umn.edu/adcs/help`
- ■ Passwords: new and forgotten ones
- ■ CCO Central systems, PeopleSoft
  - by email: `x-help@umn.edu`
- ■ Internet, Email, Microcomputers
  - call-in Monday–Thursday • 8 am–11 pm
  - call-in Friday • 8 am–5 pm
  - call-in Saturday • noon–5 pm
  - call-in Sunday • 5 pm–11 pm
  - walk-in 8 am–5 pm, M–F:
    152 Shepherd Labs; 93 Blegen Hall; 50 Coffey Hall
  - by email: `help@umn.edu`
- ■ Networking and Telecommunications Services: NTS
  - by email: `help@umn.edu`

▼ Dial-in Computer Access

Internet/PPP/SLIP: up to 53kps if v.90 612-627-4250
(56k K-flex, Flex56, X.2 protocols are unsupported)

▼ Quick Guide

Modem Usage (current activity on your account)
  `http://www.nts.umn.edu/services/modemusage.html`

Internet/Email account management/validation
  `http://www.umn.edu/validate`

MNCAT/LUMINA (Library) – `http://www.lib.umn.edu`

Office of Information Technology
  `http://www.umn.edu/oit`

One stop Services – `http://onestop.umn.edu`

Techmart – `http://www.techmart.umn.edu`

Technology Training Center
  `http://www.umn.edu/adcs/info/training.html`

UM News Servers – `news.tc.umn.edu`, `news.umn.edu`

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Threats, UM Police Department ....911 on campus
- off campus.. 624-3550

Computer Accommodations Program—voice/tty . 626-0365
U Computer Services/Computer Repair Serv 624-4800
Statistical Software Support:
  including SAS and SPSS 624-3330

Associate Vice President and
Chief Information Officer, Steve Cawley 612-625-8855

Newsletter subsciption information and archives at http://www.umn.edu/oit/newsletter

Twin Cities campus address label trivia: the 2nd number after the Rec# is the Campus Mail delivery code, http://umn.edu/lookup

`oitnsltr@umn.edu`
Or send email to:
us. Or send the entire mailing label to
Just tear off the end page and
send the entire mailing label to
address, please tell us the **Rec#.**
If you cancel or change a campus

- ☐ *Add*
- ☐ *Change Other*
- ☐ *Change Address*
- ☐ *Change Name*
- ☐ *Delete/Cancel*

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