Tech**EDge**

INSIDE THE EDGE

SBCCD Honored at 2007 CENIC Conference

by Cindy McCartney,
Administrative Grant Secretary,
CCC Technology Center

San Bernardino Community College District (SBCCD) recently received an Innovations in Networking Award for the EduStream.org educational application. The application was created with support from SunGard's Higher Education Web Development Services and recognized by the Corporation for Education Network Initiatives in California (CENIC) at the CENIC '07: Making Waves conference in March in La Jolla.

EduStream.org was created to give SBCCD faculty members the ability to store and access video content on demand and to link that content inside of their Blackboard courses. EduStream.org is a rich-media application that empowers colleges to enhance courses with video content while addressing authentication and copyright concerns.

SBCCD's EduStream.org was one of four cutting-edge educational and research projects honored at this year's conference. Another award winner, Connecting Coachella Valley to the World, was recognized for connecting a digitally isolated

San Bernadino Community College District receives an Innovations in Networking Award. Left to right: Donald Sutton, SunGard Higher Education Managed Services; Dr. Glen Kuck, Executive Director, Office of Distributed Education & Technology Services, SBCCD; and Jerry Keith, Chair, 2007 CENIC Conference.

region to CENIC's statewide network. Benificiaries of this project include College of the Desert.

CENIC owns, operates and manages the California Research & Education Network (CalREN), a high-performance Internet network that spans the state with 2,500 miles of optical fiber. The state's K-20 schools, colleges, universities and

CCCSAT Changes Name to 3C Media Solutions

by Laura Gropen, Marketing Services Manager,
CCC Confer and 3C Media Solutions

It's springtime and change is in the air at the California Community Colleges Satellite Network (CCCSAT), which officially announced a change to its name and brand identity. The new name, 3C Media Solutions, was chosen to reflect an evolution to the services the organization provides to the system.

What originally began as a satellite television infrastructure at each of the 109 campuses in 1997, has evolved to include a variety of media solutions including programming on two channels,

3C Media
S O L U T I O N S

ACN and Channel 90 as well as on the Web, streaming media services, podcasting, webcasting and video conferencing. CCC faculty members also have access to a variety of other unique services from 3C Media Solutions, including the ability

to store supplemental video material for students to access 24/7; present a live webcast to remote students or to archive for later viewing; and license proprietary distance learning series.

"For a long time, people thought of us as only the giant satellite dishes on campus buildings, but over the years we've become so much more," said Blaine Morrow, Project Director. "As the colleges better understand the variety of services we can provide, 3C Media Solutions will continue to grow as a resource for both the classroom and the community." <>

3C Media Solutions will continue to use the CCCSAT Web site until July 1, 2007. The new Web site will be http//www.3cmediasolutions.org.

Contributors:

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Tracking Technology:
From the System Office

The recent release of the new California Community Colleges (CCC) System Accountability Report marks a new era. The report represents a monumental step forward in community college accountability reporting methods and techniques. The report also represents an enormous collaborative effort on the part of many diverse—and not necessarily mutually trusting—stakeholders. The CCC System as a whole should be commended for its success in delivering this report on time, on budget and on target.

In my opinion, the report's greatest accomplishment was not in any one area of content; it was the trust-building exercise the CCC System and the state went through along the way. Unlike earlier accountability efforts, the California Department of Finance, Legislative Analyst and the Secretary of Education's Office were invited and attended along the way. Executives, faculty and researchers filled the same rooms and each side provided a great deal of education to the other.

The CCC System representatives became familiar with the state's need for accountability reporting and what was driving it. Representatives of the state became familiar with the issues behind counting methodologies, public consumption of metrics and local feedback. The CCC System is open to public accountability, provided it is done in a fair and equitable manner, using metrics that classify properly and tell the true story of our students and their progression. In the end, the process led to a solution that met the needs of both the state and the CCC System.

Before the accountability report, management information systems (MIS) data had never before been used in this level of detail to produce something so encompassing. For the vast majority of colleges the results showed normal distributions of outcomes, which was encouraging. The English-as-a-Second-Language (ESL) Improvement Rate metric really put the spotlight on how colleges had historically coded ESL courses in different ways. As a result of this divergence, we instituted a course-file review project that will benefit future analyses.

As a greater—and welcome—policy focus is put upon community colleges, the CCC System Office has received a large increase in demand by external parties for ad-hoc data runs and dataset requests. Handling these requests combined with the normal work of supporting the CCC data users has at times become a burden. As a result, we have been working on streamlining internal processes for requests that occur repeatedly, such as defining first-time student cohorts and common progress metrics. We now have a sizeable laundry list of potential new CCC Data Mart applications we should be developing in the next few years.

None of this is state mandated work however, so finding resources has been difficult. If colleges and districts can agree upon applications they feel should be developed centrally, we do have a viable funding model: subscription agreements. The best example of this is Student Right-To-Know, where colleges pay a nominal fee to have the CCC System Office complete Federal Integrated Postsecondary Education Data System (IPEDS) reports on their behalf. This type of model can be replicated as the state will allocate the System office-budgeted positions if the funding comes back via subscription agreement. This can include projects that leverage MIS data (such as some type of desired reporting) or centralized technology applications (such as, say, a centralized GIS system). We don't always have to wait until the state approves a budget change proposal to get projects completed and we welcome suggestions from the field on what projects might be beneficial.

Patrick Perry

Patrick Perry
Vice Chancellor,
Technology, Research & Information Systems,
California Community Colleges System Office

Conference Calendar

Summer Distance Education Courses Filling Fast—Sign Up Now!

by Bill Doherty, Director, and the @ONE Project Team

Would you like in-depth training on multimedia or online teaching...without leaving your desk? Or how about making reservations for Lunch n' Learn Desktop Seminars, serving up tasty topics and usable tips right to your desktop? Plus, these online courses are free of charge to CCC faculty and staff!

One-hour Lunch 'n Learn Desktop Seminars this summer include:

The Basics: *Test Drive MS Windows Vista, Wednesday, July 11 *Get Up to Speed with Office 2007, Part 1, Wednesday, July 25 *Get Up to Speed with Office 2007, Part 2, Wednesday, August 1 *Harness the Power of Excel, Part 1: Sheet Setups, Wednesday, August 8 *Harness the Power of Excel, Part 2: Data Analysis, Wednesday, August 15 *Desktop Publishing with MS Publisher, Thursday, August 16

Series in PDF: *The ABCs of PDFs, Part 1: Getting Started Making PDFs, Friday, July 13 *The ABCs of PDFs, Part 2: Bookmarks, Forms and Security, Thursday, July 19 *The ABCs of PDFs, Part 3: Creating Accessible PDF Documents, Thursday, July 26

Online Teaching: *Enhance Your Teaching with MERLOT, Tuesday, July 10 *Test Drive ETUDES-NG, Wednesday, July 18 *Developing a Comprehensive DE Plan for your Campus, Tuesday, August 14

Multimedia: *Photoshop Tips and Tricks, Part 1: Cropping, Resizing and Improving Quality, Tuesday, July 17 *Photoshop Tips and Tricks, Part 2: Building Complex Images on the Web, Tuesday, July 24 *The Art of PowerPoint, Part 1: Tools, Views and Master Slides, Thursday, August 2 *The Art of PowerPoint, Part 2: Animations, Audio and the Web, Thursday, August 9 *Introduction to Flash, Part 1: Tools Demo, Tuesday, July 31 *Introduction to Flash, Part 2: Graphics, Animation, Sound and Interactivity, Tuesday, August 7

Multi-week Online Courses include:

Online Teaching: *Introduction to Online Teaching and Learning: Monday, July 9, to Friday, August 3 (4 weeks) *Introduction to Teaching with Blackboard: Monday, July 16, to Friday, August 10 (4 weeks) *Introduction to Teaching with WebCT CE 6 (Blackboard Learning System, CE): Monday, July 16, to Friday, August 10 (4 weeks) *Introduction to Teaching with Moodle: Monday, July 23, to Friday, August 17 (4 weeks)

Multimedia: Using Podcasting for Teaching: Monday, July 9, to Friday, August 3 (4 weeks)

You can get more information and sign up today at http://www.cccone.org/de. We'll see you in class!

CARL-IT North Offers Technology Resources to Librarians

by Mari Miller, UC Berkeley Library Liason and CARL-IT North Co-Chair

The California Academic and Research Libraries North Information Technology Interest Group (CARL-IT North), will present a workshop on "Next Generation Libraries." The workshop is scheduled for September 7, 2007 and will be held at the AT&T Executive Briefing Center in San Francisco.

This "Next Generation Libraries" program will explore how the information landscape is changing and what libraries should be doing now to remain relevant in the Information Age. It will also include demonstrations from librarians who are implementing Web 2.0 tools in their libraries.

Tune into their blog at: http://carlnit.blogspot.com for more information as we get nearer to the event. The blog also has summaries of their past workshops, including "Demystifying Virtual Communications: RSS, Podcasts, Wikis, IM and other Cool Tools for Librarians."

You can also join their listserv for news and announcements. More information about CARL and the Information Technology Interest Group—including a roster of members and how to join the listserv—is available at: http://www.carl-acrl.org.

CARL-IT North was created to provide news and professional development opportunities on all aspects of new information technologies that impact, or will impact, our working lives. We encourage librarians in the community colleges to get involved. Through collaboration and information sharing, we can build our future together. < >

Faces of Technology
Lee Belarmino

Vice President of Information Technology, San Joaquin Delta College and Vice President of Technology, FCCC

Tomorrow's Solutions Today

Lee Belarmino has seen your technological future, and it looks bright.

During a recent phone interview from his office in Stockton, he predicted true "anywhere, anytime" education made ubiquitous by the advance of technology. He said that the large, often unwieldy systems of today will give way to compatible, modular commodity services, allowing the consumer to pick and choose technology applications according to need. He outlined a convergence of all formerly disparate infrastructures, resulting in smart systems that will make decisions and take action largely without human interference.

He even envisioned servant machine-agents acting on behalf of future students.

"Through the use of Artificial Intelligence, each student will have their own education robot or agent. It will follow them throughout their educational career. It is aware of the student's study interests and it will go forward on its own and negotiate the best educational deal on behalf of the student. As the student learns, the agent continues to interact and learn from the student. It is aware of schedules and assessment status and developing skill sets. It tracks progress and helps the student negotiate all aspects of higher education."

"It will happen. It's already going that direction with personalized services, driven by various commercial applications designed to interact and react to the consumer," Lee said. "The difference is that the student's agent belongs to the student, not an outside institution."

The fully realized student-agent robot may still be years off, but much of Lee's vision of the technological future of education is playing out now. His leadership and his willingness to push the technology frontier forward have advanced the cause of higher education, allowing us the benefits of tomorrow's technologies today.

Lee Belarmino is the Associate Vice President of Information Technology at San Joaquin Delta College. He is responsible for all information technology (IT) services on campus including management information, academic computing, telecommunications, audiovisual and Internet services.

His specialties include data center design and management, networking, systems design analysis and development, information architecture, PCs, minicomputers and strategic planning for technology.

Lee has 40 years of experience providing technology leadership. For 20 years, he worked in Silicon Valley. For the last 20 years, he has been at Delta College.

The San Joaquin Delta Community College District has a 2,300 square-mile footprint and serves approximately 23,000 students. It covers a large swath of California's San Joaquin Valley, stretching into the foothills of the Sierra Nevada. Centered at its 165-acre

Lee delivers, presenting "Kuali Open Source Student's Records and Financial System" during the 2007 CISOA/RP Group Conference in Garden Grove.

main campus in Stockton, the district provides higher education to five counties, including community centers in the counties of San Joaquin, Calaveras, Sacramento, Alameda and Solano.

Delta College has been acknowledged as one of the top ten digital-savvy, cutting-edge community colleges by the Center for Digital Education and the American Association of Community Colleges (AACC). It has offered Internet classes for six years, and, according to its Web site, 11-12 percent of current instruction is delivered at a distance.

But applied technology in higher education isn't limited to the delivery of distance education. A potent example of this is structured cable design, a recent research focus for Lee and his team.

In 2004, voters within the San Joaquin Delta Community College District approved Measure L, a $250 million bond measure for developing and improving the district's centers, including a need to retrofit antiquated building infrastructure to accommodate today's technology.

Lee and his team approached this need with a long-term vision. "Structured cable design is an approach where the buildings infrastructure is designed independently from the actual systems it will accommodate," Lee said. "The idea is that once the infrastructure is in place, it won't need to be changed or retrofitted in the future. The technologies themselves will change, but the infrastructure used for the technologies will not."

Traditionally, all the systems in a building—HVAC, alarms, telecommunications, voice, video, data and all the others—were separate and distinct and the physical infrastructure needs of each were included in a building as separate entities. Today all of these systems are evolving and are now controlled by low-voltage digital systems.

"What we're really talking about is convergence of all systems," Lee said. "In the past people have always focused solely on their domain and built their own system to manage the work. But because all information is now transported as bytes, it's natural that all formerly disparate signals will be routed through the same infrastructure. It is also natural that these formerly disparate systems will converge, talk to each other, and interact."

The result is not just smart classrooms, but smart buildings. What's the difference?

Lee provided a scenario. "Say there's a fire in one of the buildings. That sets off a fire alarm, just like it would anywhere else. But because the buildings systems are all digital and all interactive, the alarm is only one of a series of events. The alarm system directs the video system to turn on cameras in the area where the fire is detected. The building notifies police and firefighting personnel, and any other appropriate people. It adjusts HVAC appropriately. Because it is also connected to the school's schedule and student and faculty database, it can even determine if there are people in the vicinity of the fire who may have special needs and require assistance to evacuate."

The integrated and enmeshed system takes all of these actions simultaneously, independent of human guidance.

Less dramatic than the fire scenario, but cumulatively as important, is what the more mundane convergence of systems will achieve. For example, consider the increased efficiency of central heating and air conditioning systems that automatically cool or heat buildings based on actual daily usage.

Lee intends to publish the standards of structured cable design, developed and researched during the bond construction, as open source knowledge, as a

resource for all colleges and the entire higher education community.

Shared knowledge about structured cable design is only one example of how the district and the state as a whole have benefited from Lee's service to the California Community Colleges (CCC). He has been an adviser to the System Office, and he is the current Vice President of Technology for the Foundation for California Community Colleges.

He has also been a guiding force in open and community source development. Delta College uses Sakai's learning management system, ETUDES-NG, and uPortal as its student's Web portal. Lee said, "It would be fair to say that we are a Petri dish for open source systems and fully committed to the open source approach."

In fact, his work with the Kuali Foundation will soon yield a suite of financial system applications, as well as a student service system that meets the needs of a new generation of scholars. Both are community driven, open source projects and will be made available to the higher education community at large.

"Our motivation for forming partnerships to develop these open source systems is obvious," Lee said. "For years, each of the higher education institutions independently spent millions of dollars trying to solve the same thing, often paying vendors for unwieldy systems, all trying to solve the same problem."

"If, on the other hand, we develop an elegant system, where licensing is free and the community continues to enhance and maintain the various education information systems, those dollars will return to where they belong. They will be used directly for educating students and hiring more faculty members to educate more students."

There are concerns about developing homegrown systems, though, including the idea that such systems would not have the longevity and security of systems offered by vendors. Lee refutes this.

"True security and longevity comes from the development community," Lee said. "We've seen vendors come and go. Most have been around from three to 20 years, maybe even 30 years. On the other hand, our partners in the Kuali projects are truly long-term institutions. Indiana University has been around for 170 years, Cornell for 200

Lee and Margaret in "Grandma and Grandpa" Mode.

years and Delta College is the youngest at 70 years. These established institutions will endure and the ongoing longevity and security of our systems will come directly from the higher education community that they support."

For more information on the Kuali efforts, refer to the information below.

Lee's leadership and foresight have not gone unnoticed. Recently, he was acknowledged as a top visionary in community and open source development in higher education. In the 2006 special year-end issue of Campus Technology, which focused on 101 examples of best practices, Lee appears no less than four times in the IT administration section.

While talking about his role as a leader and the success he has enjoyed in his career, Lee never talked very long without acknowledging the contributions of his team and the support of his administration. When talking about his team at Delta College, Lee said he feels blessed. "We have an excellent mix of veterans and younger folks that are right out of school. All are very talented, and we provide a stimulating environment, which keeps them motivated. We have also been blessed with leadership: our President and our Board Members have tremendous faith in us. It's humbling."

Lee said he has been lucky in life and lucky to be at Delta College. Apparently, he has also been lucky in golf, his preferred leisure activity. Though he declined to give his handicap, he said that he normally scores in the single digits.

Lee has been married to Margaret for nearly 40 years. They have four children: Lee, Jr., 39; Andy, 35; Joshua, 30; and Sarah, 26. Lee, Jr. is a US Air Force officer currently serving in the Middle East. Andy and Joshua work for Gallo Winery's IT department. Sarah is working on a master's degree in Library Sciences. Lee and Margaret have nine grandchildren.

Lee owns a 10-acre "gentleman's farm" in the Central Valley where he and his family raise beef and golf balls. He does not have a firm date yet for retiring from his career in education, but he said he will 'retire' to working on the farm when that day comes.<>

"Faces of Technology" is a regular feature of TechEDge newsletter. Each issue it will highlight an individual making contributions to technology in the California Community Colleges.

About the Kuali Financial Systems

The purpose of the Kuali Financial Systems is to create a comprehensive suite of functionality to serve the financial system needs of all Carnegie Class Institutions. The design will be an enhancement of the proven functionality of Indiana University's Financial Information System (FIS).

In light of skyrocketing software prices and plummeting resources available for purchase and implementation of systems, certain universities have been invited into a discussion about forming partnerships to pool each institution's limited resources to provide greater benefit for all.

The Kuali Financial Systems founding partners include the following:

Indiana University	University of California
Cornell University	University of Hawai'i
Michigan State University	NACUBO (National Association of College
San Joaquin Delta College	& University Business Officers)
University of Arizona	rSmart

More information: http://www.kuali.org/communities/kfs/

About the Kuali Student Service System

The Kuali Student Service System program will deliver a new generation student system that will be developed through the Community Source process, delivered through service-oriented methodologies and technologies, and sustained by an international community of institutions and firms.

The Kuali Financial Systems founding partners include the following:

Carnegie Mellon University	University of California, Berkeley
San Joaquin Delta College	University of Maryland, College Park
University of British Columbia	

A current project report on the Kuali Student Service System is available from: http://rit.mellon.org/projects/kuali-student-british-columbia/ks-rit-report-2007.doc

The Kuali Foundation is a non-profit organization. Its members are colleges, universities, commercial firms and interested organizations that share a common vision of open, modular and distributed systems for their software requirements.

More information: http://www.kuali.org

2007 CISOA/RP Group Conference Yearbook

Here are some scenes from the 2007 California Community Colleges (CCC) Chief Information Systems Officers Association (CISOA) and Research and Planning Group (RP Group) conference held March 25-27 in Garden Grove. Its theme was "Using Research and Technology to Improve Student Success."

Palms, Garden Grove Hyatt Regency.

Joseph Moreau, CISOA Past President, delivers the conference welcome address.

Fountain at night, Garden Grove Hyatt Regency.

Casey Green, founding director of the Campus Computing Project, delivers the welcome keynote "Icons of the New Internet Economy."

Nancy Shulock, Executive Director of the Institute for Higher Education Leadership and Policy, and Associate Professor of Public Policy and Administration at California State University, Sacramento delivers the RP Group keynote address. Her address focused on a recent report she co-wrote with Colleen Moore called "Rules of the Game: How State Policy Creates Barriers to Degree Completion and Impedes Student Success in the CCC."

Jack Ramsey, Network Engineer, West Hills College, delivers "Virtualizing All Systems ... And Living to Tell About It."

Edward Karpp, Director of Institutional Research, Glendale Community College, presents "Expenditures and Outcomes, Including ARCC." His presentation focused on expenditures and student learning outcomes in light of the recent Accountability Reporting in the Community Colleges project.

Myrna Huffman, Director of Information Systems at the CCC System Office, provides an update on System Office MIS efforts.

Palms at night, Garden Grove Hyatt Regency.
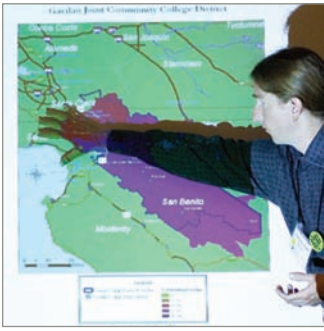
Terrence Willett, Research Director, Cal-PASS, presents "Using GIS for California Community Colleges."

Tish McNamara, Project Director, CCCApply, provides the latest news about the CCCApply Online Application Center.

Attendees mix with vendors on the exhibition floor.

The Foundation for CCC, a conference sponsor, offers attendees free Internet service.

The crowd interacts while attending "Collaborating Research and Program Improvement Efforts to Facilitate Student Success."

Cassidy Smith, Cisco Certified Security Professional and Internetwork Expert, PlanNet Consulting, gestures while presenting "CCC: Meeting the Information Security Challenge."

Catherine McKenzie, System Software Specialist, standing left, and Doug Cremer, standing right, introduce the security-challenge session.

Doug Cremer, Project Director, CCC Technology Center and California Virtual Campus, adds to the security-challenge presentation.

All yearbook photographs by David Albrecht, Information Systems Designer and Developer, CCC Technology Center.

CENIC Conference: from page 1>>

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John Hass, Professor and Chair of the History and Political Science departments at Cerritos College, provides a global perspective at the CENIC '07: Making Waves conference in La Jolla.

other educational and research sites in all 58 California counties connect to this network. Considered the most advanced network of its type in the nation, CalREN serves as many as 9.5 million Californians every day. It links hundreds of educational and research sites to one another and to national and international colleagues.

Each year at CENIC's annual conference, educational leaders from California and beyond meet to showcase their achievements in research and education in a wide variety of disciplines. Presentations demonstrate the advantages of access to the CalREN network. This year's line up included "City College of San Francisco Collaborations to Advance Informa-

tion and Communications Technology Education," and "Building Bridges to the World: Preparing Tomorrow's Teachers to be Globally Competent," presented by a faculty member from Cerritos College.

CENIC encourages interested California Community Colleges faculty and staff to attend next year's conference. Attendees may present on their exemplary use of the CalREN network or simply increase their knowledge of this resource. The 2008 annual conference will be held in Oakland, California. <>

More information about CENIC, including ongoing updates about the 2008 conference are available from:

http://www.cenic.org.

TechEDge

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