The California NetDay Challenge

Classroom: Schools, technology partners gear up for next in a series of projects to enhance instructional technology.

Carole A. Teach, California NetDay

California NetDay organizers, sponsors, and volunteers around the state are currently organizing for the next statewide wiring day on October 25, 1997. California NetDay challenges:

- 65,000 Californians —at least ten volunteers per unwired school — to participate in California NetDay wiring projects at the participating schools in their communities on October 25, 1997.

- Americans to support the National NetDay Internet Roll Call. Make at least one connection to the Internet from each of America's 130,000 public and private K-12 schools and participate in the NetDay Internet Roll Call. Once the connection is made, volunteers can access the NetDay website at **http://www.netday.org**, find their school's home page, and enter information about the status of computer technology in their school.

- County offices of education and other organiza-

tions to downlink and host the On-line and Satellite Distributed Video Workshop on Saturday, September 6, 1997, 10:00 a.m. - 1:00 p.m. The workshop, sponsored by PBS, focuses on NetDay funding and the telecommunications discounts known as the E-Rate. For more information contact **http://www.netday.org/info_usa/workshop.html**

- Businesses, education and community organizations, and individuals to fund the California NetDay Campaign providing wiring kits to schools, and "Next Steps" workshops on using network technology effectively in the classroom. (More information is provided below on

Watch Your Mailbox for the 1997 CEDPA Conference Announcement and Preliminary Program

Also In This Issue:

CEDPA Information

CEDPA is an association of Educational Data Processing Professionals (technologists) within the State of California. Founded in 1960, the major emphasis of the association's activities are directed towards improving Administrative Information Processing in public education within the State of California and to prepare its membership to better meet and support the technological needs of the Instructional Program.

CEDPA is a California non-profit corporation, as recognized by the Internal Revenue Service.

As cited in CEDPA's bylaws, the purpose of this organization shall be:

(a) To provide information to the California public educational community concerning educational data processing via dissemination at an annual conference and through periodicals and special interest seminars.

(b) To foster the exchange of knowledge of educational data processing concepts, systems and experiences between educational data processing installations and other associations both at the state and national level.

(c) To inform the association membership of important information concerning educational data processing.

(d) To provide recommendations to the State Department of Education, State Legislature, school districts, County Offices of Education and other public educational organizations concerning educational data processing.

(e) To develop professional standards for the Educational Information Systems Community within the State of California.

Yearly membership in CEDPA is granted to attendees of the Association's annual conference. Individuals interested in the Association's mailings may request to be added to CEDPA's mailing list by writing to the address below or filling out the interest form at CEDPA's website.

The DataBus is published bimonthly by the California Educational Data Processing Association and is distributed without charge to all members of the association and other selected technologists within the State of California who are interested in information systems processing and technology in education. Submissions, correspondence, and address changes should be sent to the editor at:

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Electronic editions of *The Databus* and information about CEDPA are available from CEDPA's website at
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President's Corner

"Educating Ourselves For A Change": Theme focuses on the need to educate ourselves as technologists in a faster than ever changing technology world.

Greg Lindner, Yolo County Superintendent of Schools

The next fall conference of the California Educational Data Processing Association (CEDPA) will be held at the Radisson Hotel in Sacramento, California. This year's conference will be held on October 29-31, 1997 (Wednesday through Friday), with preconference sessions scheduled for Tuesday, October 29, 1997 and concluding with our Second Annual Golf Tournament. Conference announcements will be distributed to all recipients of CEPDA's newsletter, *The DataBus,* and to all California public school superintendents and technology coordinators.

This year marks the second time that the complete breakout session schedule is being distributed with the announcement. This was made possible through the efforts of speaker chairperson Warren Williams and Russ Brawn, who together were able to completely develop the breakout program in time for it to be presented in the announcement.

The annual conference features a main speaker program including a keynote speaker and two other main speakers, several breakout sessions on various interest areas, and a vendor exhibit representing approximately 50 plus different product and service vendors. Also returning to this year's conference is the Internet Room, a popular venue of the past three conferences. This room will demonstrate network connectivity of equipment from various manufacturers, integrated to provide connectivity and access to the Internet.

Once again this year we are holding a golf tournament to be held on Friday, October 31, following the conference. Due to daylight savings time the tournament will be a 9-hole, scramble tournament. Entry fee is $35 per person, which includes the golf fees, cart rental, drink tickets and awards. NCompass Systems, Inc., is sponsoring the golf tournament this year and will underwrite the first 30 full-conference attendees who sign up. If you are among the first 30 who qualify, you will have your registration fees refunded. Those interested in participating must register with Greg Lindner **by August 30th** in order to be included in the tournament. Greg may be contacted at (916) 668-3738 or by e-mail at **glindner@yolo.k12.ca.us.**

For the second year in a row, CEDPA has put up a

Conference Central on its website. The Conference Central is a clearinghouse of information relating to this year's conference, including the complete program and an up-to-date listing of participating exhibitors. Please visit **http://www.cedpa-k12.org** for conference information and other general information about CEDPA.

Also featured this year are two preconference sessions that will be held on the afternoon of Tuesday, October 29th. These preconference sessions are open to full conference registrants only. The fee for each session is $55, or you can sign up for both sessions for $100. These fees are in addition to the full conference registration fee of $225.

The first preconference session will be "Cisco Brings Switching To The Desktop." This session will focus on why switching is a good investment in a LAN architecture. The discussion will include details on Cisco's buffering VLAN strategy, Cisco Group Multicast Protocol (CGMP) for multimedia and voice, and RSVP for bandwidth reservation. Gigabit Ethernet and ATM alternatives will also be explored by Cisco engineers.

The second preconference session will be presented by Allied Telesyn, Inc. and discuss "Using A Switch In Your Network." Allied Telesyn will provide information on where, when, why and how to use a switch and demonstrate the benefits of switched technology and the applications that it is most pertinent to.

Our keynote speaker is Dr. Linda G. Roberts, Director of the Office of Educational Technology and Special Adviser to the Secretary of the U.S. Department of Education. Dr. Roberts coordinates the Department's technology activities and plays a key role in developing the Clinton Administration's Educational Technology Initiative. She was instrumental in creating affordable access to the Internet for schools and libraries, and mobilizing state, local and other efforts to upgrade the ed tech infrastructure.

Our other main speakers for Thursday and Friday are Sandra Tiffany, Assemblywoman from Nevada's Clark County, the home of the fastest growing school district in the United States, and Kent Keel, the Executive Director

E-Rate: A Primer on Universal Service Ruling

Funding: FCC program provides significant discounts for instructional-related services.

Greg Lindner, Yolo County Superintendent of Schools

On May 7, 1997, the Federal Communications Commission (FCC) released its long-awaited ruling on Universal Service. This program will provide schools and libraries with significant discounts on basic telephone service, advanced telecommunication services, Internet services, and internal connections necessary to enable students and library users to access the information superhighway.

The discounts range from 20% to 90% based on the eligibility for free and reduced price school lunch and the cost of telecommunications in the school or library's service area. Discounts will become available on January 1, 1998.

Detailed information on this topic can be found under the E-Rate link on our home page at **http://www.yolo.k12.ca.us/**.

The most important thing at this time is to understand that the E-Rate covers discounts on all commercially available telecommunication services, Internet access, and internal connections. This program provides schools and libraries with the maximum flexibility to purchase the package of services they believe will meet their communications needs most effectively.

To clarify, this covers the telephone lines, the routers, the hubs, the Internet network server, the network cards (NIC) and the inside wiring to connect schools and classrooms to the Internet. Typically these costs can quickly add up to $10,000 or more. If your school or District or Consortium were to receive a 60% discount, the costs would only be $4000; a savings of $6000.

This fund is available to schools on a nationwide, first come, first served basis. We must be ready to move when the applications become available. In order to be prepared, your school or District should do the following;

- Conduct and document a needs assessment of current technology and capacity in your schools and libraries if you have not already done so.

- Have an approved Technology Plan.

- Budget for implementation.

- Find out what the percentage discounts are for each school in your District for the Free or reduced-price lunch program.

Discounts from the funds will not be available until January 1, 1998. However, schools should be able to start applying in July or August. If you are currently considering purchases as described in this memo, you may wish to reconsider in light of the discounts.

Discounts will be based on the percentage of students eligible for free or reduced-price lunches and applied according to the following table:

How Disadvantaged?	Est. % of US Schools in Category	Discount Level (%) Urban	Discount Level (%) Rural
< 1	3	20	25
1-19	31	40	50
20-34	19	50	60
35-49	15	60	70
50-74	16	80	80
75-100	16	90	90

Application forms are being developed by the Federal Communications Commission (FCC) in consultation with the Department of Education. Requests for discount commitments will be accepted as soon as the schools and libraries and health care Websites are open and the applications are available. The FCC will determine the date when applications will be accepted. The Websites will be opened and applications will be accepted shortly after the FCC finalizes the application form process and the FCC has stated they will issue a Public Notice to alert all parties when the application process is ready to begin.

The E-Rate is found in the Telecommunications Act of 1996 which is over 900 pages long. The section dealing with Education is 96 pages. One of the services that CEDPA provides is to analyze and clarify information such as this so that you do not need to become an expert.

CEDPA will disseminate additional information as it becomes available. Until then please stay tuned to the Yolo County Superintent of Schools E-Rate Central website at **http://www.yolo.k12.ca.us/erate.htm** for the latest information.

E-Rate: When Will It Take Effect and When Can Agencies Apply for E-Rate Assistance?

Confusion: New legislation clouded by marketing opportunists. Proceed informed and with caution.

Greg Lindner, Yolo County Superintendent of Schools

We are all starting to receive information on the new E-Rate. Some of it valid, some if it clearly marketing opportunities surrounding the confusion on the E-Rate.

I think while information from some of these companies is useful and valuable, they all need to be looked at with a cautious eye. According to the FCC the E-Rate "Application" is not yet available (see Q&A references below). It is difficult to believe companies are marketing the "application" and enticing us to fill "it" out when it is clear from the FCC it does not yet exist. Draw your own conclusions.

The following excerpts are from the FCC's question and answer text. This was obtained from the FCC web site at **http://www.fcc.gov/Bureaus/Common_Carrier/Public_Notices/1997/da971374.txt**

Please note that official information on the E-Rate can be found at the two web sites listed at the end of this article.

#38 Q: When can schools and libraries begin applying for discounted services?

A: For this first year of the program, applications for discounted services will be accepted as soon as the schools and libraries website is open and the applications are available.

#39 Q: Does that mean that schools and libraries will not be able to submit applications beginning on July 1st of this year?

A: Yes. The Commission stated that, generally, schools and libraries will not be able to apply before July 1st for funding that will become available on the following January 1st. This requirement was designed to ensure that the first come, first served process proceeds smoothly from year to year. For this first year of the program, however, administrative structures must be put in place before applications can be accepted. In addition, the Commission is currently working with the U.S. Department of Education to design the schools and libraries applications. The date on which applications will become available is still undetermined, but the Commission will ensure that when that date is determined, the information is widely disseminated to schools and libraries. The Commission is committed to ensuring that an efficient and reliable administrative structure is established at the outset of this program so that the application process will proceed smoothly for schools and libraries.

#40 Q: How can schools and libraries keep informed about the progress of the universal service proceeding?

A: Schools and libraries may consult two Commission websites to keep informed about the schools and libraries program: **www.fcc.gov/ccb** and **www.fcc.gov/learnnet.**

SIG Meeting Summary

Eric Boutwell
San Francisco Unified School District

The theme of the SIG meeting in Yolo county was "Developing and Maintaining Websites." The meeting started with a demonstration by Bill Schaible of Microsoft's FrontPage97 web development tool. We discussed and demonstrated features of this tool and compared them with other products such as QuickSite, Hot Dog, NetObjects Fusion 2 and Adobe Sight Mill. FrontPage97 is much improved over the previous version of the product and a number of the CEDPA members present indicated they will be giving it a try. Ease of use combined with the power to create complex web sites makes FontPage97 look as if it will be hard to beat.

We had a very interesting discussion of who is responsible for creating and maintaining the web sites at

Conference Theme and Program

Sacramento: "Educating Ourselves For A Change" is the theme of 37th annual event.

Russ Brawn, WestEd

In our upcoming Annual Conference, which will be the 37th held by CEDPA, we're "Educating Ourselves For A Change." Perhaps, one may be tempted to say "It's about time", and indeed it is. Whether as data practitioners or information technologists, in this past 37 years we've each been faced with change so great that it defies categorization. Only those professions similarly interwoven with the meteoric growth of computer processing capacities and enabling technologies have faced so great a change. Aviation, space exploration, medical diagnosis and procedures come easily to mind —and now, education.

Imagine that it's the year 2000. Where would a casual traveler of this country look if she/he was hoping to find the most pervasive and sophisticated network in any burgh, township, or city encountered? Best guess is the public school system. How many of us would have thought that 10 years ago?

Only a short time ago, very little K-12 computing was directed to the "product" of our "business." We made heroic efforts in effecting support systems for finance, purchasing, human resources and student administration. We're learning though, education technologists are striving to make up lost time in impacting learning through computer and information technologies.

So it is time to educate ourselves for more and continued change. Take these few days at the end of October to see how your colleagues are accommodating change now. What are their plans for the future? How are our private sector suppliers and partners focusing their efforts to support our evolving needs. Indeed, how are they changing? What of our public agencies? What efforts are underway to help them and us to embrace change? To measure or account for change?

Your CEDPA Directors have followed recent form in creating a forum to address these issues. Once again the conference will take place from Wednesday, October 29 through mid day on Friday, October 31 (Happy Halloween!). Optional pre-conference activities will take place on Tuesday. Our **featured speakers** are drawn from throughout the country, headlined this year by our invited keynote speaker, Dr. Linda Roberts, Director of Educational Technology for the US Department of Education.

Dr. Roberts's leadership efforts include creating affordable access to the Information Superhighway for schools and libraries, and mobilizing state, local and private and non-profit efforts to wire our schools, upgrade the base of hardware in classrooms, train teachers, and create effective products and services that transform teaching and learning.

Sandra Tiffany is a member of the Nevada Assembly representing portions of Clark County, the home of the fastest growing school district in the United States. Assemblywoman Tiffany will be our luncheon speaker, advising practitioners to be cognizant of the needs of policy makers — what must you do to gain adequate funding? **Kent Keel,** Executive Director, Information Technology for the Kent (Washington) School District,, will provide his "in the trenches with us" perspectives at the closing address.

On Wednesday, both colleagues and private vendors will conduct **breakout sessions** within subject tracks of 'Technical Focus', 'Support Issues', 'EdTech / IS', and 'Private Sector Partners'. Again both vendors and colleagues will serve in **panel discussions** on Thursday and Friday, seeking active interaction from attendees. Our popular **Internet display room** will run for the length of the conference. This year's Thursday **vendor exhibit show** will rival any that you've attended. Plus, you're going to love the give-aways!

Lastly, think of this. You've spent another year training and helping your students, parents, administration, board and other users. It's time to take a few days for more personal focus — **educate yourself for a change**

Me? Worry about Fashion?

In response to those who've asked (and those to whom the question has not yet occurred) appropriate conference attire might best be described as 'business casual'. Think of the traditional, or more usual CEDPA Conferences of past years, forgetting for now last year's 'dress down' emphasis in Palm Springs. Once again, our CEDPA President will be forced to wear long pants. Of course, bring some of your favorite party clothes for the hospitality times or for getting out and about in Sacramento.

Microsoft Happenings

Glenn Osako, Microsoft Corporation

Anytime Anywhere Learning

Imagine a school...

Where every student has his or her own laptop computer, uses it like a pencil and paper, can learn anytime or anywhere, and can produce the caliber of work that would be accepted in boardrooms around the world.

Where every teacher has his or her own laptop computer, communicates with parents and students over e-mail, collaborates with teachers online, and can integrate technology into the curriculum anytime anywhere.

Where parents, communities, and businesses become active participants in educating children and are true partners with the school.

Imagine — that's what some schools around the world have done and now they have turned their vision into reality. Their vision is to create a "Connected Learning Community" - a world where learning isn't limited by the hours of a school day, the walls of a classroom, or the resources of a community. It's a simple yet powerful idea where all students have access to a personal computer and information online, allowing them to pursue individual paths to learning. And, learning does not result from access alone but from continuous dynamic interaction among students, educators, parents and the extended community.

For more information, visit the Anytime Anywhere Learning web site at **http://www.microsoft.com/education/k12/aal/**

Microsoft Office97 Service Release 1

The Office 97 Service Release 1 (SR-1) makes it easier to manage the file coexistence issues some large organizations have experienced with Office 97. In particular, Office 97 SR-1 includes the Word 6.0/95 Binary Converter for Word 97. This converter enables Word 97 users to save files in the Word 6.0/95 native file format. In addition, SR-1 also includes enhanced support for POP3 and SMTP Internet e-mail in the Outlook desktop information manager, the new Microsoft Access Snapshot, support for Intel's MMX technology, various new viewers, converters and other minor enhancements and up-

dates. The web site, **http://www.microsoft.com/Office/Office97/ServiceRelease/** is where you will find information about the SR-1.

How to become a Memphis Beta Tester

Beta testers come from many different types of backgrounds - educators, developers, end users, corporate employees, etc. The purpose of beta testing is to find bugs in the software and to make it more stable and user friendly before the product is released to the public. Beta testing gives users the opportunity to provide input for the final product and to prepare for a product's release, which is particularly valuable to developers, technical support specialists, software evaluators, and trainers. To apply to become a beta tester for Memphis, please e-mail the request to betareq@microsoft.com, put Memphis Beta Tester Application as the subject field and include the following information in the text of the message:

• Name

• Company name

• Physical address (no P.O. Boxes)

• Phone number

• Fax number

• Internet e-mail address

• Specify that you are applying to beta test Memphis.

• Complete description of the hardware configuration you use including computer, monitor, graphics cards, memory cards, add-on cards, and any peripheral devices such as printers, plotters and modems.

• Complete description of the software operating environment you use, including current operating systems, networks, and memory-resident software.

• Reasons why you want to be a beta tester, including experience you have using the product and any previous experience you have in doing beta testing.

• Developers should include a request for any related Software Development Kits (SDKs).

Please note: Application for the Memphis beta pro-

Microsoft

gram does not guarantee acceptance. You will be notified if you are chosen. Due to the high volume of requests we receive, status checks cannot be done on an individual basis.

Windows NT Server & Workstation Hotfixes Page

Check out the following web site for Windows NT Hotfixes: **http://www.microsoft.com/ NTServerSupport/Content/Hotfixes.htm**

Microsoft recently posted the following hotfixes:

Updated Files for Iomega Zip Drive
Windows NT identifies the ATAPI version of the Iomega Zip drive as a floppy disk drive and assigns it the first available floppy disk drive letter (usually B). This problem does not occur with the IDE version of the Iomega Zip drive as Windows NT properly identifies it.

How to Disable LM Authentication on Windows NT
Windows NT supports LanManager (LM) and Windows NT challenge/response authentication. To allow access to servers that only support LM authentication, Windows NT clients currently send both authentication types. Microsoft developed a patch that supports a new registry key that allows clients to be configured to send only Windows NT authentication.

Fix for Getadmin.exe Utility
Getadmin.exe grants normal users administrative rights by adding them to the Administrators group.

Double-Clicking the Mouse Button Acts as a Single Click
Double-clicking the mouse in your application behaves as if you clicked the mouse button once.

Invalid ICMP Datagram Fragments Hang Windows NT
Windows NT and Windows 95 computers may stop responding (hang) when they receive corrupt Internet Control Message Protocol (ICMP) datagram fragments from a client.

Access Violation Errors in LSASS.EXE
While running Windows NT, you may receive an Access Violation error message in Lsass.exe. The problem occurs when a remote client connects to the Local Security Authority over a named pipe and passes an incorrect buffer size (fragment length).

Access Violation Errors in INETINFO.EXE
NOTE: This is for Windows NT Server only. Microsoft IIS services are stopped and a Dr. Watson error, which references the Inetinfo.exe process, is generated. This problem occurs when IIS receives a client request containing between 4 and 8 kilobytes of data in the URL.

Performance Problems with Actice Server Pages
NOTE: This is for Windows NT Server only. If you run Active Server Pages version 1.0b on Microsoft IIS version 3.0, you may experience performance problems. An updated version of Asp.dll corrects these problems.

Access Violation Errors in DNS.EXE
NOTE: This is for Windows NT Server only. You may receive an Access Violation in Dns.exe. This most often occurs on computers connected to public networks, such as the Internet, where deliberate attacks are common.

IE 3.02 Hangs with Java Applications
IE 3.02 may hang when connecting to a Web link that contains a Java application after you install Windows NT 4.0 Service Pack 3. The application stops responding only if the Display Properties Color Palette is set to True Color.

Stop 0x0000000A Error in TCPIP.SYS
A Stop 0x0000000A occurs in Tcpip.sys when receiving Out of Band (OOB) data.

Glenn Osako is Education Marketing Manager for Microsoft Corporation's Southern California District. He may be reached at (714) 263-3019, by FAX at (714) 252-8618 or by e-mail at gosako@microsoft.com.

NetDay, Funding, and the E-Rate

An On-line and Satellite Distributed Video Workshop

Saturday, September 6, 1997
10:00 a.m. - 1:00 p.m. Pacific Daylight Time

Downlink Coordinates:
C Band Galaxy 3R Transponder 12
Ku Band Telstar 402R Transponder 5B5

Goals

- To help schools get connected to the Information Superhighway.
- To help educators, librarians, administrators, concerned citizens, and other relevant parties make "wise" decisions about and investments for making this connection by examining connectivity options; developing and updating connectivity/technology plans; and understanding and making application to the programs, organizations and resource pools that may help fund these connections, including the E-Rate, the TIIAP, the Technology Literacy Challenge Fund, corporate contributors, foundations, etc.
- Understand and prepare for the NetDay activities scheduled for Saturday, October 25.

Audience

Local NetDay organizers and volunteers, including parents and teachers
Site administrators/principals/school heads and directors
County and district superintendents
Technology coordinators
Managers of educational facilities
Representatives from educational organizations
Partners and sponsors from business, labor, service organizations, etc.

Schedule

In recognition of the local nature of education, and in response to the requests of leaders at the state, county, district, and school levels, the "NetDay, Funding, and the E-Rate" workshop is modular in design to facilitate customization. Please refer to "Optional Components" toward the end of this document.

10:00 - 10:05 Information/NetDay Pep Rally video (can be copied and reproduced)
10:05 - 10:08 Introductory comments
10:08 - 11:30 Moderated panel: "NetDay: Connectivity and Technology Options"
11:30 - 12:00 The NetDay How-To Story video (can be copied and reproduced)
12:00 - 12:54 Moderated panel: "Funding Opportunities and E-Rate Discounts"
12:54 - 12:57 Closing comments
12:57 - 1:00 PSA/Video for NetDay (planned; can be copied and reproduced)

Panel issues and topics to be discussed

- NetDay: Connectivity and Technology Options
- Getting Organized
- Things-To-Do/Responsibilities lists
- Facilities information and infrastructure alternatives: Cat 5, fiber, wireless
- Telecommunications alternatives: dial-up, ISDN, T-1, ATM, satellite, cable
- ISP/Internet alternatives: commercial ISPs, state, county and district-based ISPs
- Networking alternatives: topographies, technologies
- Funding Opportunities and E-Rate Discounts
- E-Rate guidelines and application strategies

(over)

NetDay, Funding, and the E-Rate

• Government ed/tech funding program opportunities, requirements, and application strategies
• Corporate resource pools for cash and in-kind

NetDay Components
(To be arranged by National NetDay)

• Produce two and one-half hours of moderated panels and one-half hour of pre-recorded videos to be up-linked for distribution, as outlined in the schedule above.
• Arrange for at least one downlink site per state (with your help, we can do this!).*
• Promote and publish downlink sites on our Website.
• Promote the Workshop in the national media.
• Work with our partners and sponsors, government and education agencies, labor, and others to help get the word out to possible attendees.
• Arrange for web-based interactive activities, including issue-based discussion areas, real-time seminar transcripts and streaming audio. These Web-based activities will remain active at least through October.
• Provide an E-mail address and a 1-800 phone bank in order to take questions from participants. The 1-800 phone bank will be staffed with experienced NetDay volunteers, beginning with the moderated panels and running on hour after the close of the on-line and satellite distributed core. Some questions will be directed live to the panels.
• Provide support materials electronically for each panel, including model technology plans, funding applications, and the NetDay How-To Guide.
• Assist with any optional components (see below), as needed.

*If you are capable of hosting a downlink site, please contact Teresa Wann at tw@netday.org or (415) 553-2315.

Optional Components
(To be arranged by and at the discretion of downlink site organizers)

• Invite a local keynote speaker to introduce the on-line and satellite distributed core, to clarify local status and activities, and to establish a local framework for the moderated panels.
• Organize a hands-on workshop after the on-line and satellite distributed core to introduce local resources, and to complete applications for support.
• Refreshments for participants.
• Access to phones/e-mail so participants can pose questions.
• Publish your "event" in local media and/or on your Website.
• Invite community members who you feel would benefit from participating in the workshop.

Downlink Coordinates: C Band Galaxy 3R Transponder 12, Ku Band Telstar 402R Transponder 5B5

Looking for a site near you to view the workshop? Call your local PBS station to see if they will be downlinking the workshop. You can also check with your school or school district. Many school district offices have downlink capabilities. Also, a local college or community college may be able to help. If none of these has plans to downlink the workshop, ask them why not! Organize your own downlink site in your community.

If you can't view the workshop live, ask someone to tape it for later broadcasting. You will lose the interactive component, but the information will be invaluable.

NetDay expects to have at least one downlink site (but we hope to have dozens) in each state where you can go to view this on-line and satellite distributed video workshop. As downlink sites are identified,NetDay will publish them here. Please check back regularly for updates.

If you know of a downlink site not listed here, please contact us at tw@netday.org.

Statewide Video Conferencing – A Beginning

Backbone: Distance learning video infrastructure may eventually benefit K-12.

Mike McLean, 4CNet/California State University

As a part of the development of 4CNet, the expanded data network interconnecting the California State Universities and the California Community Colleges (CCC), the Chancellor's Office for the California Community Colleges awarded a grant in mid-June to Butte Community College, located in Oroville in Northern California, to provide oversight to the development of 4CNet as it relates to the community colleges. The $2,493,000 two-year grant calls for four major activities: funding and tracking the improvement of the 4CNet backbone to meet the needs of the Community College participants in the network; development and publication of a newsletter to chronicle the development and use of the network; providing a connection to 4CNet for the Community College Chancellor's Office; and the development and management of one or more pilot projects to utilize the 4CNet infrastructure for video-conferencing for community colleges in California.

According to LeBaron Woodyard, Dean for Instructional Technology at the CCC Chancellor's Office in Sacramento, "Butte's comprehensive history as a provider of distance education throughout its rural district and its historically strong collaborative partnership with California State University, Chico were critical factors in the decision to award the grant to the college." The project will be under the direction of Dr. Frederick Sherman, Vice President of Information Services and Technology at Butte College.

Butte College will select partners from across the state to pilot video conferencing over the network. It is hoped that the information gathered from these pilot programs will lead to connection of every California community college via video through 4CNet over the next two years. Such systemwide video connection would enable all California community colleges to simultaneously transmit full video and audio data in real-time as well as continuing the current tranmission of data over the 4CNet backbone.

Currently, the campuses of the CSU make extensive use of the 4CNet backbone for video conferencing. Over 500 conferences per month are scheduled on the system and range from ongoing classes, to faculty meetings, interviews, and administrative meetings. Participation in these video conferences ranges from two campuses to all campuses in the system. The CSU has already realized the value in such a statewide network. One can easily imagine the time and cost savings of bringing together students or staff from institutions throughout the state for vitual "face-to-face" classes or meetings compared to the cost of gathering all participants in one geographic location. Several classes are offered at various CSU campuses that would not otherwise be affordable due to the absence of instructional staff or a lack of enrollment.

A key point of the current CSU video conferencing system is a Web based scheduling system that allows campuses to schedule video conferences through a web interface. A CSU campus video coordinator will soon be able to access the CSU Video Home Page, request a video conference, and have that request confirmed all online. The scheduler verifies the availability of video rooms at each campus and the required circuits. Campus coordinators must of course verify that someone else has not scheduled a "video room" for a non-video class.

Network links in the current system allow CSU campuses to conference with campuses within the University of California system and using a Sprint Video Channel connection to conference with individuals having a similar connection or utilizing one of many Sprint Video conference centers across the nation, some of which are housed at Kinkos locaitons. These same connections will be available to the community colleges as they are connected for video to 4CNet.

The eventual implementation of a statewide video conferencing network including the campuses of the CSU and the California Community Colleges will open an even greater potential for distance education and collaboration. It will be one of the largest video networks in the nation bringing with it benefits such as improved student grades, reduced student costs, enhanced course delivery to students, and expanded access to instructional resources, just to mention a few. Both the CSU and the CCC are looking forward to the implementation of video conferencing for all participants in 4CNet, another example of the unprecedented collaboration among the California State Univer

Education Access Announces Strategic Partnership with Bay Networks Inc.

Carolyn Nicholson, Education Access

Education Access (formerly Computer Plus) the leading provider of comprehensive educational technology solutions to the K-12 education market, joins forces with Bay Networks, one of the world's largest network hardware and software manufacturers.

Education Access provides educators with the necessary expertise to plan and implement instructional, administrative and enterprise technology solutions. Focused exclusively on the education market, the company offers a complete line of education technology services and solutions including computer hardware and peripherals, systems integration/network services, curriculum and productivity software and professional development.

Marty Wachi, Sr. Systems Engineer for Education Access in Fountain Valley, California, says, "Our partnership with Bay is a very strategic choice for us, based on their breadth of product line, market presence and technical expertise. We found that end-to-end, Bay has the most comprehensive network solutions for our customers."

As a result of strategic partnerships with companies like Bay Networks, IBM, PowerComputing, and Microsoft, Education Access now provides cross-platform products, services, information, training and support for all components of education technology including Network Systems Integration, Hardware Product Sales, Software Products (Curriculum and Productivity) and Professional Development.

Bay Networks and Education Access Product Promotions: (**Southern California only**)

(Please contact Local Representatives for pricing outside the coverage area)

	List Price	Education Access
BayStack 350T 16 Port 10/100BaseT Auto-sensing Ethernet Switch (Part #: AL2012E01)	$3,995	$2,397
BayStack 350F 14 Port 10/100BaseT Auto-sensing Ethernet Switch (Part #: AL2012E02) Also 2 Ports 100FX	$4,995	$2,997
BayStack 303 22 Port 10BaseT/1 Port 100BaseTX Ethernet Switch (Part #: AL2001E04) 1 Open Slot for 100BaseTX or 100BaseFX Port (10BaseT Switched Ethernet at only $64 per port!)	$2,350	$1,410

To order these products and others, or for more information, please contact 1-800-446-3713. Your call will automatically be routed to your local sales office.

For on-line information, see the following URLs:
http://www.edaccess.com
http://www.baynetworks.com

Company Contact information:
mwachi@edaccess.com

Carolyn Nicholson is Marketing Manager for Education Access, formerly Computer Plus. She can be reached at (408) 733-1349, ext. 3136, or by e-mail at cnicholson@edaccess.com.

CEDPA's 1997 Conference Central Now Online

Once again, CEDPA's Conference Central website pages are available for up-to-the-minute information about this year's conference. Complete information about the conference including session schedules, a description of pre-conference and main conference sessions, as well as information about the main speakers are available at this updated website. A registration packet including all registration forms is also available for downloading.

Information about Sacramento's points of interest includes links to appropriate websites for more complete and detailed information about the attractions. The vendor exhibit list is updated constantly and reflects the vendors who support your association. The vendor list includes a description of the exhibit, contact information, and a link to that vendor's website, if applicable.

Conference Central can be accessed at **http://www.cedpa-k12.org/97conference/.**

Northrop Grumman Receives Certification For Year 2000 IT Services Offering

Bob Shupe, Northrop Grumman

LOS ANGELES, July 17 /PRNewswire/ — Northrop Grumman Corporation (NYSE: NOC) has received ITAA*2000 certification from the Information Technology Association of America (ITAA) for its Year 2000 IT (information technology) solutions services offering, signifying that the company meets the IT industry's best software development practices for addressing the Year 2000 issue.

To qualify, Northrop Grumman participated in a rigorous evaluation of its approach to date conversion, including an extensive review involving 11 process areas such as situation assessment, solutions analysis, and systems verification and validation. The positive evaluation affirmed Northrop Grumman's SEI Level 3 process for software development and its methodological approach to the Year 2000 solution.

"The ITAA*2000 certification immediately makes Northrop Grumman more attractive to potential customers needing these services," said Gary W. Hobbs, president of External Information Systems, a business unit of Northrop Grumman's Data Systems and Services Division.

ITAA comprises more than 11,000 direct and affiliate members throughout the United States, including IT industry leaders in software services, systems integration, and the Internet. The association plays a leading role in public policy issues of concern to the IT industry, including taxes, intellectual property, telecommunications law, encryption, securities litigation reform and human resources policy.

Northrop Grumman's Data Systems and Services Division is a leading vendor-independent systems integrator specializing in large systems solutions for Federal, state and local government agencies, and private industry.

Northrop Grumman Corporation, headquartered in Los Angeles, is a leading designer, systems integrator and manufacturer of military surveillance and combat aircraft, defense electronics and systems, airspace management systems, information systems, marine systems, precision weapons, space systems, and commercial and military aerostructures. SOURCE Northrop Grumman Corp.

Bob Shupe, Major Accounts Manager for Northrop Grumman, contributed this press release and the article, "SMDS: A Cost Alternative Case Study" that appeared in the June-July, 1997, issue of The DataBus. *He can be reached at (714) 838-9649, by FAX at (714) 838-7479, or by e-mail at bobshupe@aol.com.*

CEDPA's Website Wins Two Awards

CEDPA's website has been recognized by two web rating sources for excellence and content applicability.

In January, 1997, LookSmart, the next generation of web directories committed to quality and superior user web experience, awarded CEDPA the Editor's Choice Award for its website. This award conveys the highest standard for providing a useful and high-quality website. LookSmart is a subsidiary of Reader's Digest and can be reached at h**ttp://www.looksmart.com.**

In June, one of *The Databus* articles that also appears in the on-line electronic version at CEDPA's website was designated to be included in the PC Webopaedia. The PC Webopaedia is a web-based on-line encyclopedia of computer and electronic-based terms and definitions and can be reached at **http://www.pcwebopaedia.com**. The article that was recognized was "Internet Access Control Using Proxy Servers" which appeared in the December, 1995-January, 1996, issue of *The DataBus* and is available on-line at **http://www.cedpa-k12.org/databus-issues/v36n1/proxy.html**.

The organizations presenting these recognitions also award the use of identification icons to symbolize the recognition These icons have been added to the appropriate pages on CEDPA's website at **http://www.cedpa-k12.org/.**

A Centralized Approach To Web Filtering

Web Access: Internet Products. Inc. announces the imminent release of an integrated Web filtering server**.**

Dan Shahbazi, Internet Products Inc.

With last month's Supreme Court decision to strike down the Communication Decency Act provision that would have banned indecent material on the Internet, the education community may face new technology challenges in enforcing Internet acceptable use policies.

Although a slew of client based Web filtering packages continue to surface in an attempt to solve this challenge, these approaches, according to Farley Stewart, president of Internet Products, Inc., often present more of a management nightmare than a solution. An alternative is the deployment of a network filtering server which provides a single, centralized way of controlling Internet access instead of managing block lists at every client workstation.

Filtering servers fit well as a management solution because they use the standard proxy controls built into client Web browsers to channel all Web access through a central point. The central point, or Internet server, facilitates decisions regarding which sites to allow or block. Web filtering management is simplified because no software is installed on client workstations.

Internet Products is responding to these new filtering challenges with the release of an integrated Web filtering server onboard its flagship product InterGate. The filtering server is designed for seamless integration with the caching proxy and user management functions that InterGate currently provides.

Web filtering is coupled with twelve other Internet services that Stewart says effectively service and manage an Internet connection. "The addition of a Web filtering server will boost the performance of an already powerful solution," Stewart noted.

He added that the integration of Web filtering with caching proxy services gives administrators complete control over which users can and cannot download particular sites. "Administrators will setup categories of users that have different Internet access profiles," Stewart said. In addition, a network administrator may add or delete sites on InterGate's automatically updated block list at their discretion.

"What we're developing is a versatile tool that adds substantial value to the caching proxy features of InterGate," Stewart added. "Not only is it essential for educators to block inappropriate Web material, it is prudent for them to monitor where users are going on the Net."

Part of InterGate's caching proxy feature offers a logging mechanism that automatically records every URL any user accesses. These logs can be compiled to reveal a track record of Internet usage for any user at the organization. "Although the goal of InterGate Web filtering is to block sites rated as objectionable, it is still useful to have an audit trail of where users have been," Stewart contended.

Internet Products is slated to release an integrated Web filtering server for the InterGate Solution in August and a subscription Web filtering service in the Fall. The new feature will increase InterGate's caching and filtering performance by ten times. This will substantially increase the number of users that can simultaneously access the Internet. Subscribers of InterGate Web filtering services will receive continuous and automatic updates to an extensive block list.

According to Stewart, InterGate is uniquely suited for educational Internet management because it defrays the cost and time involved in managing large numbers of users with differing Internet needs. "The evolution of InterGate continues to reach new milestones as a single high performance solution that provides all the Internet functions that even the largest districts can implement with the flick of a switch."

For further information about caching proxy services, Web filtering and the InterGate Solution visit Internet Products Web site at **www.ipinc.com.**

Dan Shahbazi is Public Relations Manager for Internet Products, Inc., and may be reached by telephone at (619) 576-4100 x 100 or by FAX at (619) 576-4111. His e-mail address is dan@ipinc.com.

NetDay

the NetDay Campaign)

NetDay began in California on March 9, 1996, as a volunteer effort by schools, parents, students, communities and businesses to wire California's K-12 schools as a first step toward building school networks and Internet access. NetDay is now occurring nationally, with every state involved in volunteer wiring of K-12 schools. NetDay's goal for each school is to connect five classrooms and a library/media center using Category 5 wire, the standard high-speed digital wire used in most business networks.

The California NetDay organization began receiving generous support in late July, from Oracle Corporation, which is providing full office facilities and support for the California NetDay website. With this support, California NetDay is quickly putting into place plans for a statewide California NetDay Campaign. This campaign will help to ensure schools' success with their NetDay efforts. The campaign will obtain funding to (1) purchase wiring kits for distribution to California's K-12 schools, and (2) provide "Next-Steps" workshops that will help educators learn how to take advantage of the wired classroom to benefit teaching and learning.

Many of you have been involved in NetDay activities and have been working hard to plan and implement the networking infrastructure within your schools. Because of your activities, and with the help of NetDay volunteers, about half of the schools in California have some level of wiring. This coming NetDay will focus on the estimated 6,500 public and private California schools that do not have networked computers in the classrooms. We know that with appropriate planning and support from the school district and community, NetDay gives schools a head-start in getting high-speed data wire into K-12 classrooms and connecting schools to the "information superhighway." The tools this technology offers, when used effectively by teachers and administrators, can improve our students' ability to conduct research, publish their work, become active and collaborative learners, providing teaching and learning opportunities never before possible in K-12 classrooms. Every student, in every school should be given this opportunity. Furthermore, NetDay helps to extend the efforts of education projects such as Project GoldenNet (**http://www.ccsesa.org/ GoldenNet/**) which is being conducted by the County Superintendents Education Services Association.

The California NetDay organization is setting a goal of collecting at least $800,000, by September 30, 1997, enough to purchase and coordinate the distribution of 2,000 NetDay wiring kits to schools in need, and to organize and hold eight regional "Next-Steps" workshops.

These 2,000 wiring kits will provide high-speed category 5 wire for 12,000 classrooms with two connections per classroom. The donated wiring kits represent a savings of $800,000 when compared to the cost to individual school districts. Additional untold savings are realized in the elimination of time and paperwork in procuring the components of the wiring kits. This is a good deal for K-12 education. Moreover, the wiring kits are an incentive to schools to organize a NetDay event, thereby taking the necessary first-step in building the school network and connecting students and educators to the Internet.

The "Next-Steps" workshops will help educators realize the use and benefits of the school network, facilitating the transition from technology as an "add-on" to technology as an integral tool that becomes part of teaching strategies and the learning process.

The California NetDay organization is asking California businesses, service organizations, foundations, public and private education organizations, unions, and communities to support NetDay through contributions to the California NetDay Campaign fund, and continued volunteer support of K-12 public and private schools. The California NetDay organization will use those funds to obtain wiring kits at discounted, bulk rate prices. These wiring kits will be distributed through county offices of education and regional NetDay coordinators, who will ensure that the kits reach the schools that are in need and

Video

sity and the California Community Colleges. The pilot efforts to be development through the grant to Butte College are just the beginning of this ambitious endeavor.

Michael A. McLean is Manager of Customer Service Support for 4CNnet, a service of the CSU Chancellor's Office. He can be reached by e-mail at help@4cnet.net.

Educating

(Continued from Page 3)

of Information Technology for the Kent (Washington) School District.

This year's conference follows the format of past conferences. Registration begins on Wednesday at 8:00, with the conference commencing at 9:00 a.m. Following the opening remarks by CEDPA's president Greg Lindner, Dr. Roberts will give the keynote address. Breakout sessions will follow for the remainder of the day. Wednesday's activities will conclude with the CEDPA-hosted President's Reception that evening.

Thursday will begin with interactive panel discussions that will lead into the all-day vendor exhibit. We expect more than fifty vendors to be on hand to show you their latest products and services. Sandra Tiffany will deliver our noontime address. The vendor exhibit will continue after lunch, concluding in the door-prize drawings that afternoon. Vendor-hosted hospitality suites will cap off Thursday's activities.

Friday's featured speaker and panel discussions will be both interesting and informative. CEDPA's business meeting will conclude the conference activities. The golf tournament will begin about 1:30 at the Haggin Oaks Golf Course, about 15 minutes from the Radisson hotel.

While planning for this year's conference, there are several important dates to remember. They are:

- August 30, 1997 - deadline to register for CEDPA Golf Tournament
- September 26, 1997 - deadline to qualify for early conference registration drawing.
- October 6, 1997 - deadline for hotel reservation forms to be submitted directly to the Raddison Hotel.
- October 10, 1997 - deadline for conference pre-registration.
- October 22, 1997 - last date to cancel registration. Cancellations received after that date will not be refunded.
- October 29-31, 1997 - Conference
- October 31, 1997 - Golf Tournament

The complete conference announcemenand a registration form package are now available in Adobe PDF format from CEDPA's website. There is also a link on that page to Adobe's website to download a free copy of the Adobe Acrobat reader which you will need to process the PDF files.

Additional conference announcements can also be obtained directly from CEDPA by contacting CEDPA's secretary, Jane Kauble, at (562) 922-6141, or by e-mail at kauble_jane@lacoe.edu.

Vendor Update

Terrell Tucker
Panama-Buena Vista Union School District

The vendor show will be on October 30th this year. It is shaping up to be the best ever with many vendors already confirmed, door prizes committed and the best conference souvenirs in recent CEDPA history. There are a few spaces still available in the exhibit area, so it you know a vendor that has not signed up, please have them call me at 805-831-8331 ext. 144.

There are over thirty booths subscribed to date. This year's exhibitors include NCS, Scantron, Microsoft, Sehi Computer Products, Data Impressions, Panduit, Novell, Madge Networks, Digitronics Software, Quest, and Bi-Tech Software. Also included are Escape Technology, Quintessential School Systems, Maplewood Computing, Ltd., BDM Education Technologies, Schoolhouse Software, Inc., ComLink, Asante Technologies, Internet Products, Inc., and Scanning Systems. More vendors are being added every day. An up-to-date list of exhibitors appears at the CEDPA website 1997 Conference Central page.

Numerous vendors have donated door prizes and/or made donations to our conference this year. Our world famous tote bags will be very nice this year and will be donated by Novell Corp. A special addition to this year's "goodies" will be a leather portfolio donated by Microsoft Corp. We will provide each attendee this year with a travel mug compliments of Escape Technology. Comlink is providing each attendee with a personalized screwdriver that each of us needs so badly on a daily basis. Each bag will also include a very nice pen for all of your important memos to the boss. National Computer Systems and Scantron Corp. will once again provide hospitality suites. Be sure to surf to the official CEDPA home page (**www.cedpa-k12.org/**) to find out about the many vendors who graciously support our organization.

I want to thank all of the vendors who have signed up as exhibitors already and those that make special contributions to enhance the conference for all of us. Once again, if you know a vendor that you would like to see at the conference, please have them give me a call or send me e-mail. See you at the show!

EL DORADO COUNTY OFFICE OF EDUCATION
Director of Information Technology Services

THE POSITION
This position is responsible to the Associate Superintendent, Business Services. Starting date is October 1, 1997.

MAJOR DUTIES AND RESPONSIBILITIES
• Supervise and evaluate personnel for the purpose of providing supervision and leadership within the department.
• Manage department personnel, equipment, housing and associated costs for the purpose of assuring standards are achieved and performance is maximized.
• Meet regularly with district representatives and users for the purpose of training, planning and identifying program and software needs.
• Maintain knowledge of current systems software for the purpose of recommending and implementing new programs.
• Prepare written and oral reports and budgets for the purpose of complying with special project requirements and proving written support and/or conveying information.
• Develop and maintain a system for the purpose of prioritizing needs and future trends in information services.
• Conduct feasibility studies on new data processing applications and programming needs for the purpose of advising administration regarding purchase or lease of suitable equipment, software, programming and staffing.
• Analyze computer systems and coordinated programming related to the County Office of Education and school districts for the purpose of implementing and maintaining department services and/or programs.

SALARY, WORK YEAR, BENEFITS
Salary: $57,036- $69,326 (96/97)
Work Year: 222 days
Benefits include: Health, Dental, Life and Vision.

QUALIFICATIONS
Required:
• Increasingly responsible experience managing an Information Services unit in a multifaceted agency. • Knowledge of principles and operation of mainframe and microcomputer systems at a senior level. • Experience in midrange computing systems, network operating systems and desktop operating systems. • Network background in WAN, LAN, and Internet connectivity.
Desired:
• Knowledge of IBM AS 400, H.P. 3000 and UNIX environments. • Experience in financial and statistical management.
• Experience in planning and conducting inservice training on data processing applications. • Work experience in an educational setting.
Ability:
• To think globally and carry out complex projects independently. • Develop and implement a technology plan. • Supervise the activities of a technical staff.

APPLICATION AND SELECTION PROCEDURE
An applicant's file will be complete upon receipt of:
• Completed application form
• Resume detailing your training and experience
• Letter of intent outlining your skills and background related to this position
• Three letters of recommendation specific to this position and its duties

APPLICATION TIMELINE
Application materials must be received by 5:00 p.m. on **August 29, 1997.**
Mail to:Dr. David Karell, Director, Human Resources Department, El Dorado County Office of Education, 6767 Green Valley Road, Placerville, CA 95667. Paper screening will be conducted during the week of September 8, 1997. Oral interviews will be scheduled during the week of September 15, 1997. Final interviews will be scheduled for September 23, 1997. Telephone: (916) 295-2242.

SELECTION PROCEDURES

All applications will be screened and the selection of candidates to be interviewed is made on the basis of meeting the specified qualifications. All application material becomes the property of the El Dorado County Office of Education and will be maintained in strict confidence. All application material will be destroyed one year from the date of receipt by the El Dorado County Office of Education.

The El Dorado County Office of Education is an affirmative action, equal opportunity employer.

NetDay

prepared to hold a NetDay event. County offices of education and regional NetDay coordinators will work with school districts and schools to support the NetDay efforts, including coordination of wiring experts to ensure that the wiring is properly planned, installed and tested.

Supporting businesses will assist in public relations activities to promote the NetDay campaign and workshops. Of course, schools will need to plan their NetDay events and involve their communities and local businesses in support of the effort. They should plan to appoint an organizer who will represent the school, coordinate the volunteers, keep their school information current on the NetDay website, sign-on to the NetDay Internet Roll Call, and be the contact to receive the wiring kit(s).

For further information contact California NetDay at canetday@us.oracle.com or by telephone at 916-366-0792.

Carole A. Teach is Executive Director of California NetDay. She can be reached by e-mail at cteach@ix.netcom.com.

SIG

each of our district or county offices. Most websites started with someone in the technical group getting it up and going but what happened next was an interesting topic of discussion. We discussed that the web pages that are being created are definitely a form of publishing and that we could draw a lot of comparisons between publishing on the web and publishing school newspapers and/or other district or county publications. Some districts are expanding their web duties to each department and school, each with its own editor. The editors may also be the technicians that develop and maintain the web pages but more frequently are not the persons who do the actual development. Districts that are trying to develop rules and regulations for publishing on the web may be able to save some time by reviewing their board policies relating to school newspapers and/or other publishing polices since web pages are just a new form of publishing. Most rules and regulations previously passed by our boards regarding publishing will apply.

The next SIG meeting will be at the October CEDPA conference in Sacramento. See you there.

CEDPA
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Huntington Beach, CA 92615-6552