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TO TOMORROW'S INTERNET**

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In July, CENIC issued an RFP for a communications consultant to determine the practical and economic feasibility of providing next generation advanced optical network connectivity to all the research and education community in California. Specifically, CENIC and its Charter Associates Universities want to understand the technical and financial implications and opportunities for upgrading and extending the current research and education networks - CENIC's CalREN-2, CSU's 4CNet; and, USC's and Caltech's Los Nettos.

CENIC is very near to signing a contract with a consulting firm. During the first phase of the study, the consultant will:

- 1) Identify potential appropriate technologies for both basic communications transport and IP data transport. CENIC wishes to know if dark fiber or lambdas are available for long haul.
- 2) Identify potential providers. The consultant will list traditional providers as well as other, new sources of fiber, like power companies, cable companies, municipalities, etc.
- 3) Investigate alternative arrangements with installed networks. CENIC will explore potential partnerships for cost savings.
- 4) Investigate potential for new infrastructure co-development. This should also be done in conjunction 2 and 3 and will investigate businesses in the planning phase of an infrastructure project that CENIC might join

DWDM Presents Bright Future for Networking

The days when a business, be it big or small, will require a phone network for voice applications alone are fleeting, according to Cahners In-Stat Group. Given this, Cahners sees optical networks as the solution for the New World business strategy. Dense Wave Division Multiplexing (DWDM) systems are the required, capacity-enabling applications for these optical networks, and as the Internet Service Provider (ISP)-driven, e-commerce economy continues to expand, DWDM market revenue is projected to hit \$21.5 billion in 2004. For more information, please visit <http://www.instat.com/catalog/cat-tx.htm>.

PACS Virtual Symposium on Radiology ASPs

Diagnostic Imaging (<http://www.dimag.com>) held a "Virtual Symposium on Radiology ASPs" from October 16 to 20, 2000.

In radiology, the Application Service Provider (ASP) model is being used to support image storage and distribution among diagnostic facilities, or between radiologists and referring physicians. Unfortunately, most radiology departments and facilities today do not have the access to the affordable high-bandwidth connections that would help this technology reach its full potential.

This Internet symposium was designed to discuss a wide range of topics, from hardware implementations to clinical applications to economic models. Discussions can be viewed in their entirety at the symposium's homepage: <http://www.dimag.com/symposium/>.

CENIC Welcomes National Marine Fisheries as CENIC Affiliate

The National Marine Fisheries based in Santa Cruz became a CENIC Affiliate October 1, 2000. The University of California, Santa Cruz is the sponsor of the National Marine Fisheries.

CENIC Mailing Lists

Each month, CENIC generates a wide variety of documents designed to spread the word about the latest developments in advanced-services network technology. They include:

***CENIC Today**

The Monthly Newsletter of the Corporation for Education Network Initiatives in California. (listname: cenic-today)

***DCP Today**

A bi-monthly newsletter detailing the latest Digital California Project news. (listname: dcp-today)

CoolApp

Arriving three times a week, CoolApp is a fast-paced electronic briefing on today's best advanced-services network applications. (listname: coolapp)

Applications Newsletter

A quarterly in-depth look at the most promising applications of high-performance networking technologies. (listname: cenic-today)

You can automatically subscribe to any of these publications by sending e-mail to listproc@cenic.org with the following request in the message body:

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signoff listname

Factoid

A recent study from the American Association of University Women shows that women today receive less than 28 percent of bachelor's degrees in computer science, compared with 37 percent in 1984. Initiatives like CENIC's CalREN-2 and DCP will help bridge all kinds of "digital divides", whether they be geographic or social.

About CENIC

CENIC is a not-for-profit corporation formed by the California Institute of Technology, the California State University, Stanford University, the University of California, and the University of Southern California to advance the use of communications technology in teaching, learning, and research at California's institutions of higher education. CENIC's Founding Partner Associates are Cisco Systems, IBM, Pacific Bell and Sun Microsystems. For more information about CENIC, visit <http://www.cenic.org/>.

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