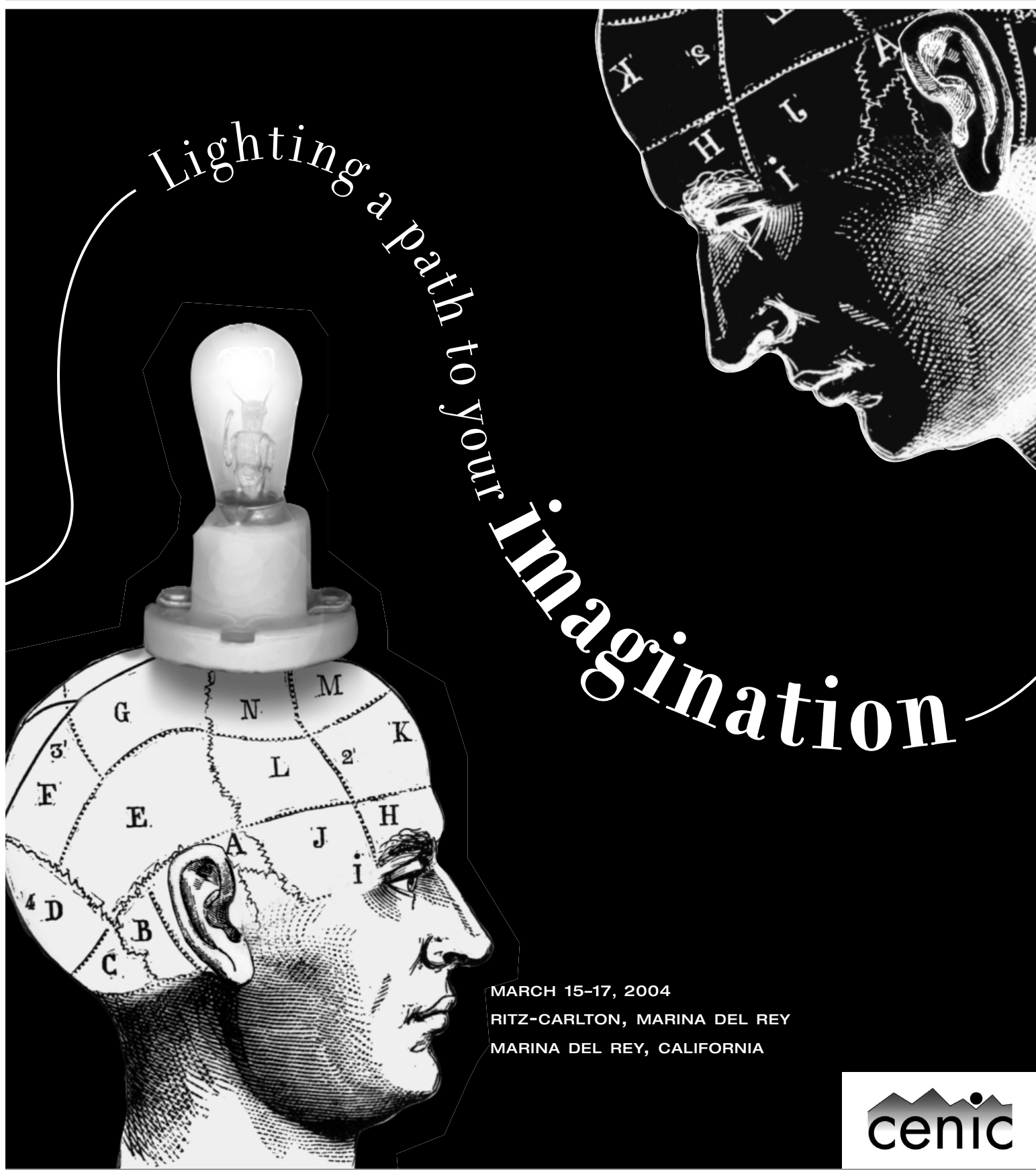


Lighting a path to your **imagination**



MARCH 15-17, 2004
RITZ-CARLTON, MARINA DEL REY
MARINA DEL REY, CALIFORNIA



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Monday, March 15

8:00 am–6:30 pm	Ballroom Terrace REGISTRATION AND EXHIBITS
9:00–9:30 am	Admiralty CORPORATE BRIEFING Level 3: Voice Over Internet Protocol Speakers John Wharton, Account Director Research and Education; Ryan Reel, Sales Engineer Research and Education
9:30–9:45 am	Salon II & III WELCOME REMARKS Speakers Jerry Keith, Conference Chair; Celeste Anderson, Program Cochair; Catherine McKenzie, Program Cochair
9:45–10:15 am	Salon II & III CENIC Today and Tomorrow Speaker John Silvester, Chairman of the Board, CENIC; University of Southern California
10:15–10:45 am	Salon II & III California's Future
10:45–11:30 am	Salon II & III Looking Behind at the Future of Networking Speaker M. Stuart Lynn
11:30 am–1:00 pm	Marina Vista ON THE ROAD TO A GIGABIT LUNCHEON
1:00–3:00	Salon II & III ON THE ROAD TO A GIGABIT PRESENTATIONS Moderator Susan Estrada, CENIC Partnership First Place Ultralight Partnership <i>Sylvain Ravot, California Institute of Technology</i> Community First Place Behind the Redwood Curtain: The Power of Community Activism in Broadband Deployment <i>Tina Nerat, Redwood Technology Consortium</i> Education First Place Educational Telecommunications Network <i>Richard Quinones, Los Angeles County Office of Education</i> Gigabit or Bust First Place Desert Sands Gigabit Ethernet <i>George Araya, Desert Sands Gigabit Ethernet</i> Innovation First Place Fontana Advanced Community and Educational Services <i>Janice McClintock, City of Fontana</i> Biggest, Fastest in the West First Place On Demand Infrastructure: A Basis for High-performance Grid Computing <i>Patricia Kovatch, San Diego Supercomputing Center</i> Gigabit or Bust Honorable Mention Education Applications for a Gigabit Network <i>Garett McKay, El Monte Union High School District</i> Partnership Honorable Mention George Wright Society's Virtual Trip to Fish Creek <i>Joe Von Hermann, California State Parks</i> Education Honorable Mention Teaching and Learning Interchange <i>Pamela Redmond, University of San Francisco</i>

3:00–3:30 pm	Ballroom Terrace BREAK
3:30–5:00 pm	Salon II & III FIBER TO THE HOME AND CAMPUS PANEL Moderator Mike Van Norman, UC Los Angeles Next Generation Access Speaker Ernie Carey, SBC University Housing: Proof Point for "Gigabit or Bust" Speaker Michael Serrano, Alloptic
5:00–6:30 pm	Ballroom Terrace RECEPTION

Tuesday, March 16

8:00 am–6:30 pm	Ballroom Terrace REGISTRATION AND EXHIBITS
8:00–10:30 am	Ballroom Terrace BREAKFAST Sponsored by Juniper Networks
8:00–8:30 am	Admiralty CORPORATE BRIEFING Juniper Networks: Safe at Any Speed Speaker Marty Schulman, Chief Technical Officer
8:30–9:00 am	Admiralty CORPORATE BRIEFING Cisco Systems Speaker Christopher Buja, Deputy Director Academic Research and Technology Initiatives
9:00–9:15 am	Salon II & III OPENING COMMENTS Speaker Tom West, President, CENIC
9:15–10:00 am	Salon II & II KEYNOTE ADDRESS Things That Go Bump on the Net: The True Story of the Underground Rob Thomas, Team Cymru <i>Rob Thomas is the lead researcher for Team Cymru and information security researcher for Cisco Systems.</i>
10:00–10:30 am	Ballroom Terrace BREAK
10:30 am–12:00 pm	Salon II & II NETWORK SECURITY PANEL Moderator Rodney Joffe, UltraDNS Corporations Real-time Blackholing for Security Mitigation Speaker Michael Sinatra, UC Berkeley The Self-defending Network Speaker Matt Krieg, Cisco Systems Panel Discussion Panelists Matt Krieg, Cisco Systems; Marty Schulman, Juniper Networks; Michael Sinatra, UC Berkeley; Rob Thomas, Team Cymru
12:00–1:30 pm	Marina Court LUNCH Sponsored by Level 3

1:30–3:00 pm	<p>BREAKOUT SESSIONS</p> <p>Salon I</p> <p>COLLABORATIONS TRACK Moderator Mark Crase, CSU Chancellor's Office</p> <p>Transforming Medical Education and Practice Through Technology</p> <p>Panelists Frank Kroncke, National Health Network; Violet Macias, San Diego State University; Judy Papenhausen, CSU Los Angeles School of Nursing</p> <p>Inter-regional Grid-enabled Center for High-energy Physics Research and Educational Outreach (CHEPREO)</p> <p>Speaker Heidi Alvarez, Florida Int'l University</p> <p>Salon II</p> <p>TEACHING AND LEARNING TRACK Moderator Sherilyn Shiotsu Evans, CENIC</p> <p>Light Bridge: Online Academic Lesson Interface and Authoring System</p> <p>Speaker Brett Christie, Sonoma State University</p> <p>Partnering to Advance Academic Excellence in K–12 Education Through High-quality Video Content</p> <p>Speakers A. Michael Berman, Joan Bissel, Cal Poly Pomona; Peter M. Neal, Annenberg/CPB</p> <p>Salon III</p> <p>THE NEW FRONTIER TRACK Moderator Phil Reese, Stanford</p> <p>OptiPuter Regional Connectivity via CENIC and NLR Services</p> <p>Speaker Greg Hidley, UC San Diego</p> <p>Building an All-optical Internet Router</p> <p>Speaker Joe Touch, ISI</p> <p>Distributed Immersive Performance</p> <p>Speaker Alexander Sawchuk, USC</p>
3:00–3:30 pm	<p>Ballroom Terrace</p> <p>BREAK Sponsored by Qwest</p>
3:30–5:00 pm	<p>BREAKOUT SESSIONS</p> <p>Salon I</p> <p>COLLABORATIONS TRACK Moderator John Charles, CSU Hayward</p> <p>OneCleveland</p> <p>Speakers Lev Gonick, Case Western Reserve University; Hamid Manteghi, Greater Cleveland Regional Transit Authority</p> <p>Salon II</p> <p>TEACHING AND LEARNING TRACK Moderators Leann Parker, UC Office of the President; Catherine McKenzie, California Community Colleges Chancellor's Office</p> <p>Exploratorium.edu on Internet2: Digital Media from a Museum of Science, Art and Human Perception</p> <p>Speakers Deborah Hunt, Exploratorium; Noah Wittman, Educator Online Network, Exploratorium</p> <p>UCR/CMP's Web-based Educational and Community Building Innovations</p> <p>Speakers George Burwick, Jennifer Frias, UC Riverside</p>

**University of California Television:
Resources for K–20**

Speaker Alison Gang, University of California Television

Salon III

THE NEW FRONTIER TRACK

Moderator Michael Sinatra, UC Berkeley

Campus Design Considerations for IPv6

Speaker Charles Smith, Cisco Systems

CaVIP

Speaker Sherilyn Shiotsu Evans, CENIC

An Example of a High-bandwidth Application: Digital Restoration of Film

Speaker Massimiliano Gasparri, Warner Bros.

5:00–6:30 pm

Ballroom Terrace

RECEPTION

Wednesday, March 17

8:00 am–1:00 pm

Ballroom Terrace

REGISTRATION AND EXHIBITS

8:00–10:30 am

Ballroom Terrace

BREAKFAST

Sponsored by SBC

8:30–9:00 am

Admiralty

CORPORATE BRIEFING

Qwest: Network Convergence

Speaker Rick Pasco, Qwest

9:00–9:15 am

Salon III

OPENING COMMENTS

Speaker Jim Dolgonas, CENIC

9:15–10:00 am

Salon III

KEYNOTE ADDRESS

The Biomedical Informatics Research Network: A Merger of Advanced Cyberinfrastructure and Multiscale Brain Research

Mark Ellisman

Prof. Ellisman is the director of UC San Diego's Center for Research in Biological Structure.

10:00–10:30 am

Ballroom Terrace

BREAK

10:30–11:00 am

Salon III

HYDRA: High-definition Live Streaming Architecture

Speaker Roger Zimmerman, Integrated Media Systems Center, University of Southern California

11:00–11:30 am

Salon III

INTERNATIONAL PEERING STRATEGIES PANEL

Moderator Tom West, President, CENIC

Panelists Celeste Anderson, University of Southern California; David J. McGaugh, David R. Richardson, University of Washington; Ana Preston, Internet2

11:30 am–12:00 pm

Salon III

WRAP-UP

Speaker Jerry Keith, Conference Chair

12:00–12:30 pm

The Pavillion

BOX LUNCH

Sponsored by Cisco Systems

See you next year!

IT'S NEVER TOO SOON...
START PLANNING NOW FOR **CENIC 2005**.

MARCH 8-10, 2005
RITZ-CARLTON, MARINA DEL REY
MARINA DEL REY, CALIFORNIA

CHECK OUR SITE AT
WWW.CENIC.ORG
THROUGHOUT THE YEAR
FOR MORE INFORMATION.

KEYNOTE BIOGRAPHIES

Mark H. Ellisman, Ph.D.

A Biomedical Informatics Research Network:
A Merger of Advanced Cyberinfrastructure

Prof. Mark Ellisman is the director of University of California, San Diego's (UCSD) Center for Research in Biological Structure (CRBS). The center integrates the research and training activities of researchers in those departments at UCSD that involve biological structures from molecules to brains, ranging in dimensions from angstroms to centimeters. Much of the work at CRBS involves computational neurobiology and it is based at and linked to the San Diego Supercomputer Center.

In his research, Ellisman is obtaining new insight into how the nervous system functions at the cellular level and how the nervous system works by linking the function of neurons to their macromolecular structure, particularly at synapses. He is also developing advanced confocal and high-voltage electron-microscopic imaging methods and associated computer-aided image processing and computer graphic display methodologies.

Mark Ellison believes that developing new, computer-intensive observational technologies requires a partnership between biologists, computer scientists and engineers. "These tools don't often come from industry, they come like most things in science from the academic trenches through research and interdisciplinary activity," he says.

Since 1997, Ellisman has been the neuroscience thrust leader and cross-disciplinary coordinator for the National Partnership for Advanced Computational Infrastructure. He is a member of the American Association for the Advancement of Science,

Society for Neurosciences, and American Institute for Medical and Biological Engineering. He has served on numerous editorial boards and has been associate editor for the Journal of Neurocytology since 1980. Ellisman is a grant reviewer for organizations such as the National Institutes of Health and the National Science Foundation, and a consultant for associations such as the Association for Advanced Technology in the Biomedical Sciences and Pfizer.

Robert Thomas

Things that Go Bump on the Net:
The True Story of the Underground

Robert Thomas is the lead researcher for Team Cymru (pronounced "Kum-ree") and an information security researcher for Cisco Systems. As part of Team Cymru, he provides a variety of services, including network infrastructure security templates, DNS and BGP monitoring, and routeservers for bogon prefix filtering. Prior to joining Cisco, Thomas worked as a network engineer, network and systems architect. He is a self-proclaimed recovering UNIX kernel developer.

Robert Thomas is a member of the North American Network Operators' Group (NANOG) Program Committee and a liaison member of the Forum of Incident Response and Security Teams (FIRST). In addition, he is a member of the UltraDNS Technical Advisory Board, an Internet Systems Consortium (ISC) Fellow, and one of the moderators of the nsp-security list.