

dimension

The Newsletter for L.A. SIGGRAPH
ACM's Special Interest Group on Computer Graphics

April 1991

Video Compression April 30th Pacific Bell

Our April meeting will be held April 30th (social hour starts 6:30, meeting starts 7:30) at the Pacific Bell Network Showcase Facility located at 1010 Wilshire (see page 8 for map). Byron Wagner of 4C Technology will be using JPEG compression to exchange high resolution still images with NTT in Japan, while simultaneously demonstrating collaborative on line computing, and full video teleconferencing, **using dial-up ISDN lines.** Thompson Consumer Electronics R&D will also join us and cover emerging standards for compression and their applications. Kit Galloway of The Electronic Cafe will talk about their use of video compression technology for arts communication.

VIDEO COMPRESSION PACIFIC BELL'S NETWORK SHOWCASE FACILITY TUESDAY APRIL 30, 1991

A request for JPEG and MPEG (video compression) was left at our last meeting at JPL, so we called Byron Wagner of 4C Technology. He has arranged to have our meeting hosted by Pacific Bell, at their Network Showcase Facility, which boasts breakout rooms with executive teleconferencing gear which we'll be welcome to use. Come early to sign up for the demos.

Pacific Bell will be our host and their ISDN group will give an overview of **CentrexIS**, Pacific Bell's ISDN offering. Byron will be using JPEG compression to exchange high resolution still images with NTT in Japan, while simultaneously demonstrating collaborative on-line computing, and full video teleconferencing, using dial up ISDN lines. **It's cheap, it's digital, it's dial-up!**

We also asked Thompson Consumer Electronics R&D Laboratories, based here in Los Angeles, to join us. They'll be giving a demo and will also cover emerging standards for compression of digital still pictures (JPEG) and moving pictures (MPEG & MPEG2) and the applications of these standards (DBS, HDTV, Digital Recording).

We'll hear from Kit Galloway of the Electronic Cafe and their work in creating a community of video-phone enthusiasts. We'll also call Iterated Systems, in Georgia, so you can ask them questions about Fractal Image Compression (the rule is to use only the picture itself to describe itself, even though it takes a while).

There will be Pacific Bell employees in the breakout rooms giving demonstrations of how to use the ISDN lines and to answer any questions you might have. This is a good opportunity to let Pacific Bell's ISDN group know about your needs & interests. We're also interested in how you would like to use this technology.

LA ACM/SIGGRAPH MEETING CAE AT AEROSPACE CORP. DINNER/MEETING WEDNESDAY MAY 1ST,

Cocktails at 6:30 and dinner at 7:00p.m. at the Proud Bird restaurant at 11022 Aviation Blvd. between Imperial & Century. Afterwards at 8:00 p.m. we'll go just south of the restaurant to the Aerospace Corporation, which is located on Aviation Blvd. between El Segundo and Hawthorne. We'll meet in Building D8. Members of the CAE Dept. will demonstrate a variety of engineering and simulation tools on several different hardware platforms, including the newest Silicon Graphics IRIS workstation with VGX graphics. Presentations will address satellite mission planning and operations, orbital constellation analysis, computational

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COMPUTERS, FREEDOM & PRIVACY HACKERS, CRACKERS, LAWYERS & COPS

March 25-28 we were at the San Francisco Airport Marriott Hotel for the First Conference on Computers, Freedom & Privacy. Attendance included people from: Pac. Bell, Bellcore, Computer Professionals for Social Responsibility, Electronic Frontier Foundation, Free Software Foundation, TRW, FBI, ACLU, IRS, U.S. Dept. of Justice, Subcommittee on Technology and the Law (Senate Judiciary Committee, U.S. Senate) Hewlett-Packard, National Center for Computer Crime Data, LawMUG BBS, Information & Privacy Commissioners, DEC, U.S. Secret Service, National Institute of Justice, McGraw Hill, Dunn & Bradstreet, NBC News, Nat'l Inst. of Justice, New York State Police, LAPD, First Amendment Congress, Lawrence Livermore Nat'l Labs., Law students, software designers, AT&T Bell Labs, Cato Institute, Equifax, RAND, The Well, District Attorneys, Apple, IBM, SUN, Symbolics, Library of Congress, Computer companies, Libertarian Party, many editors/writers/publishers, attorneys, information and insurance companies, American Library Association, Universities from all over the globe, Steve Jackson, Craig Neidorf, Phiber Optik, Willis Ware, Prof. David Chaum (CWI/ DigiCash), and many more.

March 27, 1991 'A key pillar of constitutional law is upset. High Court Justices, in 5-4 vote, rule that a coerced admission of guilt could be used if it amounts to a 'harmless error.' L.A. Times

Professor Laurence Tribe, one of the nation's leading experts on

the Bill of Rights proposed that the U.S. Constitution be amended in order to preserve privacy and other individual rights as citizens begin moving into the electronic frontier. **Janlori Goldman** of the ACLU's Project on Privacy & Technology said that she "feels that those rights are already in the Bill of Rights but the courts are reading it wrong."

CATO Institute - "We in our search for moral authority, have taken to worshiping the false idol of government. We forget that the purpose of law is to prevent mayhem between men; the purpose of morality and religion is to persuade men to change their behavior voluntarily." The Cato Institute undertakes an extensive publications program dealing with the complete spectrum of policy issues. call (202) 546-0200 for catalogue

Donald G. Ingraham, Assistant District Attorney and leader of the High Tech Crime Team, Office of the District Attorney of Alameda County, Oakland, California wrote this paper before the conference: *'Coming of Age in Cyberspace; or, perspectives of a provincial prosecutor on the protection of privacy, freedom, and property in the increasingly settled electronic frontier.'* He writes: "The purpose of this paper is to add some shading to the enticing image that exudes a fascinating if wholly fictitious mirage: the illusion is that there exists, somewhere over the modem, an on-line Oz known as Cyberspace, that all things must be allowed there or it will be lost forever, and that any restraint of those who inhabit it is inherently oppressive, illegitimate, and improper. Cyberspace seems to have become for some computer users not just an ideal, but an alternate reality not unlike the realms of Dungeons and Dragons: a great place to visit but a dangerous place by which to be obsessed."

CPSR organized & the **EFF** sponsored the **Civil Liberties and the Electronic Frontier: Mapping the Terrain** in February 1990. They explored the new network world emerging within our current world. People meet and exchange views, share confidences, and create communities in this vast space. In this place publishers are also mailmen, and tavern keepers must often restrain the unruly. In this world explorers become trespassers when digital boundaries are crossed. To some, the line between access and intrusion has become blurred. Courts and Congress must reexamine what constitutes a crime.....Government is now able to acquire more information about individuals. People have less control over their personal information than in the past. On the other hand, individuals can increasingly circumvent attempts of others to control information they acquire. there is at least the prospect for a level playing field. (to join the Computer Professionals for Social Responsibility in Los Angeles write to: Rodney Hoffman, P.O. Box 66038, L.A., CA 66038/ To reach the Electronic Frontier Foundation call (617) 864-0665 or Fax (617) 864-0866

Marc Rotenberg, Director of CPSR Washington Office, Chair ACM SF&HR Subcommittee on Privacy wrote a *'Lotus Marketplace Analysis'* for ACM in which he recommended that: The ACM has a professional and ethical obligation to oppose the release of Lotus Marketplace, which violates both the ACM Code of Conduct and the Code of Fair Information Practices. **Lotus Marketplace** raises unique privacy problems. Traditionally, organizations exchanged mailing labels through bonded mail houses. The lists were for one time use only and individual data could not be aggregated. **Marketplace** is a digital information product that does not restrict use and facilitates

the compilation of personal data. Lotus is also placing the burden on the consumer to control the use of his or her personal information. This is probably the only way to make the product profitable. If Lotus were instead required to obtain consent from consumers before selling the data, too few consumers would likely consent. Finally the database is keyed to the social security number, which is a unique identifier. This facilitates the compilation of personal information and raises many of the same problems as a national ID card.

(The business edition shipped in October and provides data on about 7 million businesses. The Household edition, reported to have an available database of 120 million consumers was stopped after Lotus received 30,000 E-mail protests and CPSR and the ACLU 'descended with a vengeance.'

George Bernard Shaw said in a speech in 1933 "An American has no sense of privacy. He does not know what it means. There is no such thing in the country."

A Hacker is anyone who derives joy from discovering ways to circumvent limitation.

In the **Computer Underground Digest** issue #3.09 (3.19.91) they covered the Hollywood Hacker's bust. Stuart Goldman, a freelance investigative reporter, was raided on March 8, 1990, by Secret Service agents and the Los Angeles Police. According to news stories in the Los Angeles Times and elsewhere, Goldman was working on an expose of "sleaze-tv" shows such as Current Affairs and Hard Copy, shows for which he had also provided written material. According to the news accounts, Goldman was caught attempting to access Fox computers in New York and Los Angeles containing files relevant to Current Affairs. He was charged with the usual litany of allegations (fraud, theft, etc.) under Section

502(c)(2) of the California Penal Code. Fox Television Was Present With Reporters And Camera Crew during the raid! They aired that evening with the teaser 'Hollywood Hacker caught' showing police with guns drawn yelling "hands up." If you have any information about the system at Fox Television and could testify as to its security or lack thereof, send E-mail to: otis@well.sf.ca.us and leave a message for "Hollywood Hacker."

One credible teenager once told the Underground Digest that when he was arrested, the police burst into his room with guns drawn. He was at the keyboard of his computer. The the agent in charge allegedly pointed the gun to his head and said, "Touch that keyboard and die!" It's tough hacking.

Government Technology: Managing State and Local Government in the Info. Age

is an interesting source of stories for your writer friends! "The privacy cauldron is beginning to boil and the brew is electronic mail," or cool ads like: "Maps make the difference. Lookup a building on our full-color, 27-inch map. In seconds you'll know its history; offences, arrests, floor plans, exits, electrical panels, location of weapons and explosives, and more!" For a subscription call 916.443.7133

EcoVillages, a new concept in sustainable communities. The Network is a group of real estate

CAE / AEROSPACE

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fluid dynamics, failure/anomaly resolution, and military satellite communications. Due to special facility requirements, all reservations (dinner and program or program only) must be made by April 29. That phone number is 213.375.5940. Non-US citizens are asked to bring proof of residency to the meeting.

development companies that have come together to plan, create, develop and market a network of environmentally sound, affordable and sustainable communities. Interested? call 408.425.8523

The First Amendment Congress has an *Education for Freedom Project* which is endorsed by the National Council for the Social Studies. It looks great. There are two units: the Primary and Intermediate Units and the Middle and High School Unit. Each are \$25.00 payable to the First Amendment Congress, 14454 Market Street, suite 320 Denver, CO 80202. One thing was clear, we need to develop students' awareness of their rights, so they'll expect them as adults! What better theme for your next animation, and you can distribute it to schools after it's finished! Then again, we love those teapots!

The League for Programming Freedom had lots of handouts: "Lotus won their lawsuit against Paperback Software and immediately sued Borland. They won against Paperback because VP Planner uses the same menu structure as 1-2-3. They are suing Borland because Quattro Pro's menus have similarities with those of 1-2-3. According to the Wall Street Journal, Lotus "claims that Quattro Pro's use of the 'C' key to denote what type of currency to use on a spreadsheet, as well as the use of 'FR' for file retrieve, constitute infringements on Lotus's 1-2-3. We have just marked the 100th anniversary of the first antitrust law. Don't let monopolies form through abuse of the copyright law! Boycott Lotus, Apple, Ashton-Tate and Xerox! Join the League for Programming Freedom! 617.243.4061

Privacy International: World Privacy Protection Network. This is the first attempt to establish a properly structured world focus on this crucial area of human rights. The
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WHO'S WHO IN VIDEO COMPRESSION

Kyra Communications' guide to the top players in the field was printed in a new magazine called **Vizons** (The Magazine of Total Multimedia!) in their premier issue, Winter '90-'91. Following is a very condensed overview, so I suggest you go right out and buy your very own copy. Call (207) 236-6267 for subscription (\$24 for 4 issues) or write to Vizons, P.O. Box 1328, Camden, Maine 04843, looks like a good mag and they're funny!

Apple Computer has demo'd software based motion video decompression to analysts requiring the full processor capability of Apples Macintosh IIx computer, a 40MHz 68030-powered \$10,000 host.

C-Cube Microsystems is the first company to ship hardware and software products using the Winter 1990 JPEG draft image compression algorithm. They sell image compression software for Macs and PCs, \$3,000 evaluation boards for Macs and PCs. C-Cube's original business mission was stated as marketing a 330,000 transistor CL-550A JPEG silicon digital signal processor: the CL-550A (which is compatible with last winter's draft JPEG standard, but NOT compatible with the April 1990 JPEG draft standard).

Eastman Kodak became the first Fortune 500 company to ship a software JPEG image compression/decompression product, in the form of a still-image software compression toolkit. Kodak's ColorSqueeze software runs only on the Macintosh computer. Also Kodak told analysts and press that it would support the JPEG image compression algorithms for a new multibillion dollar

Kodak PhotoCD project (Kodak's technology partner is NV Philips).

GCTechnologies has disclosed plans for a complex set of twelve digital signal processing chips which will deliver audio and video teleconferencing rates (ISDN) up through HDTV quality. Also with pre- and post-filtering chips designed to translate popular programming materials to and from NTSC and PAL sources.

General Instrument DigiCipher. Their papers filed with the FCC show that their system for digital video compression will deliver real-time compression and requires \$100,000 of equipment to perform the task, per channel. They have been accepted by the FCC's advanced TV committee as a candidate for broadcast testing in 1991.

IBM is a supporter of the Intel DVI technology (along with Lotus and Microsoft) and has also shown a series of software-only video compression schemes (IBM managers jokingly refer to the software technology as PVI, Poorman's Video Interactive).

Intel DVI: At its launch in March 1987, DVI promised motion video compression ratios of 200:1 along with synchronus sound. The existing two-chip set using A silicon from 1987 requires a twin-board host for edit-level (40:1 compression ratio) authoring. Software authoring tools supporting DVI interactive multimedia program scripting first appeared in the spring of 1990. Intel upper management has committed to DVI as the multimedia program delivery mechanism of choice for Intel processors through to the year 2000 and beyond. Intel currently markets the ActionMedia 750 PC/AT cards and IBM offers MCA versions, at about \$1,995 each.

LSI Logic: LSI has introduced a mix and match chip set supporting many forms of video compression and decompression. These include chip sets that will adhere to emerg-

ing MPEG, JPEG and CCITT H.261 and PX64 videophone standards.

Micron Technology has introduced a \$1,995 Macintosh NuBus card which supports hardware-accelerated JPEG image compression and decompression. The board uses twin AT&T Technologies' DSP-16 digital signal processor chips and Micron video RAM for operation.

Motorola is slated to be the motion video chip supplier for the Philips CDI venture (a 32-bit 68000 processor host chip, the 68070). Together they have pledged they will be able to deliver "desktop compression" (as opposed to DVI's centralized parallel processing-based compression) in the 1991-92 timeframe.

NeXT Computer has shown a costly add-in board for its color NeXTStation computer, designed in conjunction with C-Cube Microsystems. It delivers windowed motion video to the NeXT color screen using the C-Cube CL-550A processor.

NV Philips has pledged a multi-billion commitment to making its Compact Disk Interactive (CDI) system into what the Dutch giant views as the industry's next consumer electronics hit: interactive audio-visual entertainment on CD-ROM. CDI managers have recently announced they will support JPEG
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ELECTRONIC THEATRE AND FINE ARTS ANIMATION DEADLINE REMINDER

MAY 1, 1991

Request applications from

SIGGRAPH'91

Conference Management Office
401 N. Michigan Avenue
Chicago, IL 60611
(312) 644-6610

Global Interactive Art Network 1992

ACM SIGGRAPH '92, the 19th International Conference on Computer Graphics and Interactive Techniques, will be held July 26-31, 1992 in Chicago, Illinois, USA. In addition to continuing the tradition of selecting and showing installations, two- and three-dimensional works, and interactive pieces, the SIGGRAPH '92 Art Show committee intends to provide a forum for global, tele-interactive art, tentatively called the Portal.

Works for the Portal may include but are not limited to:

- Performance
- Image exchange
- Cooperative image creation and modification
- Tele-presence and Virtual reality
- Multi-sensory art/data communication

The Portal: A Description

The Portal is an artwork or number of artworks that will enable people at locations around the globe to communicate and/or interact with each other by means of computer software and telecommunications. Works must be accessible to a group audience; that is, cooperatively generated images must be in a form that can be experienced by groups at one or more Portal sites. For example, in the realm of virtual reality, a data-helmet, data-glove, or data-suit transmitter/actuator might be adequate, but a similar receiver/actuator for a single person would require some form of additional output to engage a group audience.

Request for Feasibility Proposals

In order to realize this project, artists and art organizations around the world are invited to collaborate in the development of its form and content.

We currently have expressions of interest from many sites around the world in addition to Chicago, including: Japan, Australia, Russia, South America, and Europe.

For now, anything goes. We encourage creative exploration of the networking concept and are open to all possibilities. Final submissions must have detailed technical specifications and clear feasibility.

At the Chicago site we are considering the use of high- and/or low-speed data

For further information or to discuss your proposal, contact:

*John Grimes (Chicago)
phone: 312-567-3250
fax: 312-567-3357
bitnet: idgrimes@iitvax
internet: grimes@siggraph.org*

*Paul Brown (Melbourne, Australia)
phone: INT+613-660-2935
email: pbrown@siggraph.org*

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(312) 644-6610**

Association for Computing Machinery

Los Angeles Chapter Membership Renewal Form

P.O. Box 90698 WorldWay Postal Center Los Angeles, California 90009-0698

New Member
Member Name: _____

Previous Name: _____

- | | | | |
|-----------------------|------------|--------------------------|--|
| LA ACM | \$10 | <input type="checkbox"/> | Chapter Membership ¹ |
| SIGAda ² | \$2 | <input type="checkbox"/> | Ada Language |
| SIGART ² | \$2 | <input type="checkbox"/> | Artificial Intelligence |
| SIGCHI ² | \$5 | <input type="checkbox"/> | Computer Human Interface |
| SIGGRAPH ² | .. \$15 | <input type="checkbox"/> | Computer Graphics |
| SIGNUM ² | \$3 | <input type="checkbox"/> | Numerical Analysis |
| SIGPLAN ² | \$2 | <input type="checkbox"/> | Programming Languages |
| SIGSAC ² | \$2 | <input type="checkbox"/> | Security Audit and Control |
| SIGSOFT ² | \$1 | <input type="checkbox"/> | Software Engineering |
| Total | \$ | <input type="checkbox"/> | Make Checks Payable to
<u>Treasurer ACM</u> |

We provide free chapter membership to student members of ACM who are also members of ACM student chapters in the LA area, and programming students of the Urban League Training Center. To qualify provide school name (and if applicable your ACM Number) on the line below.

We make our membership list available to companies and societies for nonprofit computer science related mailings. Default choice is Unlimited.

To change the choice circle one of the choices below:

LA ACM
mailings

LA ACM & Sister
Societies

indicates current affiliation.

Voting membership requires ACM membership

ACM NO: _____

SIG = LA Special Interest Group in.. See descriptions overleaf.

Circle the choices below to receive information on our parent organization or sister societies:

ACM	San Gabriel	Orange	San Fernando
(National)	Valley	County	Valley

Your current mailing address is in the lower left hand corner of the letter. Circle any changes below:

Home Address: _____

Work Address _____

LA ACM invites your participation in the following committees, please indicate your interest by circling the committee name¹:

ACM Area Liaison	Arrangements	Data Link
Education	Government	Industry Rep.
Membership	Ombudsman	Program
Publicity	Sister Societies Liaison	
Speaker's Bureau	Student Chapter Liaison	

¹For a description of the committees function see overleaf.

Home Address

Work Address

Name: _____

Street: _____

City/State/Zip: _____

Additional: _____

Telephone: _____

Electronic Mail: _____

HACKERS, CRACKERS

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membership of Privacy International represents countries as diverse as India, Japan, The United States, Australi, Zambia, Russia, Argentina, France and the Philippines. The Working Group of the organization comprises many of the world's leading privacy, computer law and FOI experts, as well as more than thirty highly active human rights organizations. They'll be involved in the full spectrum of privacy issues, but will be particularly concerned with problems relating to surveillance and data protection. for info E-mail rotenberg@csl.stanford.edu or phone 202.544.9240 or Fax 202.547.5482

The Bangkok Post February 17th, 1991 issue had an article on the front page called Big Brother. It seems that our American security companies are selling technology to small countries with questionable governments who are using it to create very scary worlds. Simon Davies (Faculty of Law, Privacy International) gave one of the more frightening talks about this matter. Check it out!

The Electronic Democracy Conference will be held September 4-5 in Virginia. Issues include: an Electronic Bill of Rights, Electronic Highways and intergovernmental cooperation, technology trends in information distribution, the legal and legislative environment, Governments role: Information Warehouse or Retailer? Call 916.443.7133 for information or Fax 916.443.4954

Community Memory Project a public access information and resource exchange in San Francisco for info call 415.841.1114

The Committee for the Bill of Rights 'It's under attack' 202.543.1988

Amnesty's Action Line The 911 of Human Rights 1.900.446.4020

We met some of coolest FBI hackers you'd ever want on your case and later that night in the bar Phiber Optik (read John Perry Barlow's *Crime & Puzzelment*) was having a drink with his arresting officer. This is the golden age of information technology, which puts us somewhere between warning and disaster, as one speaker told us. Many people seem to be interested in getting into education, so here's a good topic. If you're interested in the video tapes of the full series for your university call 213.962.1662.

UCLA COURSES

April 15-18. **The X Window System: Fundamentals and Applications Development** with Ralph Swick (DEC) and Mark Ackerman (MIT)

April 22-26 **Requirements Analysis and Specification** with Randall Jensen (Hughes Aircraft)

April 22-26 **The 4.3BSD UNIX Kernel: Introduction and Networking** with Marshall McKusick (Uof Berkeley) and Michael Kareis (Uof Berkeley)

April 29-May 2 **UNIX System Administration** with Evi Nemeth (Uof Colorado) and Robert Kolstad (Rocky Mountain Tech. Center)

For further information call 213.825.1047, enrollment is still open. For information on services for students with disabilities call 213.825.7851

CPSR MEETING

APRIL 17

The Computer Professionals For Social Responsibility will have a meeting Wednesday April 17 at UCLA with Richard Turco, the author of the *Nuclear Winter*. For further information call Rodney Hoffman at 213.222.6618.

AFI GOES MAC!

The American Film Institute and the AFI-Apple Computer Center for Film and Videomakers, presents a series of seminars starting April 30th. For information call 213.856.7664.

Macintosh Fundamentals for Film/Video Professionals

Saturday May 4, 9:30am to 4:30 \$150. instructor: Mike Backes

Mac Tools for Film Producers

Saturday May 11 9:30am to 4:30 \$150. instructor David Sosna

The Mac for Corporate Communicators A State of the Art Symposium

Saturday June 29 9:30am to 4:30 \$350. moderators: Jonathan Seybold, Scott Billups

Case Study: The Mac as a Partner in a Small Production Company

Tuesday June 11 7:00pm to 10:00 \$75. instructor Bonnie MacBird

Story Analysis and Feature Film Scriptwriting on the Mac

Saturday June 8 9:30am to 4:30 \$250. instructor: Mike Backes

State-of-the-Art Mac Applications in the Entertainment Field

Tuesdays 4/30 to 6/4 7-10 pm moderators: Mike Backes, Scott Billups

ACM TUTORIAL WEEK

June 19-21 1991, ACM is offering **Tutorials for Professional Development**. They'll run two tutorials per day, each from 9 AM to 5PM at the Ramada Inn in Culver City. The titles are: Programming in C, Object Oriented Design with C++ (for two sessions), Distributed and Multiprocessing Architectures, Introduction to UNIX Internals, and X Window System. Costs for ACM members \$135/day, \$330 for all 3 days; student members \$40/day and include lunch, coffee breaks, and a notebook of materials. For info call: Mike Rogson (213)336-5611 or Dave Oppenheim at (818)785-8000.

WHO'S WHO

CONTINUED FROM PAGE 4

and MPEG compatibility with the motion video format.

Olivetti has announced its intention to deliver European PAL video format access to the Intel DVI chip and board set.

PictureTel Inc. has announced it will jointly develop specialized processors for video teleconferencing use with Intel DVI technology (1992 target date).

Radius Inc. has stunned analysts with its \$2,700 Radius TV product, a box and board set for the Mac II family, which delivers broadcast video (NTSC or PAL) onto host Macintosh screens. Audio and closed-captioning broadcasts can be digitally stored and searched by ASCII commands. They have also announced Macintosh software which allows JPEG image compression/decompression within seconds with no JPEG silicon processor assist.

Rapid Technology became the first company to ship a PC/AT board capable of high-resolution full-frame video compression and decompression using one C-Cube CL-550A compression processor. It's \$1,995 Squeeze AT card comes complete with a suite of software tools and drivers allowing point-and-click selection of operational modes under DOS. It also sports an on-board driver.

SGS Thompson has announced plans to deliver "digital video" compression processors and decompression systems on a chip level. Some or all of these chips may be dedicated to an SGS-Alcatel pledge to deliver second generation color video telephones to France for use in the Minitel program.

Sony Corporation is shipping a \$10,000 JPEG image compression/

decompression interface box (the DIH-2000) designed for use with desktop color scanners and electronic photography systems. Sony Japan has recently announced its support for CDI playback system weighing as little as two pounds.

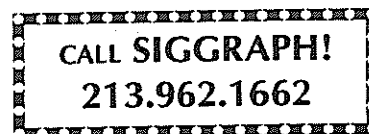
SuperMac Technologies has become the first company to show full-screen-width video recording and stereo audio playback, in what it deems a "technology demonstration of capability." SuperMac's demo is a two-pronged system. C-Cube's CL-550A is used for dedicated real-time video frame compression and decompression, while SuperMac's PDQ Macintosh video cards perform a second stage of video acceleration above and beyond the role of the CL-550A. Along with digital compression and decompression, SuperMac can play back motion-picture-quality images (on a 13-inch screen) using data sourced at a 600kilobyte/second data rate from a network or disk source.

UVC Corporation has been steadily evolving their box-level video compression, videoconferencing, and video store-and-forward products into single-board, single-chip and software-only products. UVC has developed a software-play-back module which allows conventional PC/AT systems featuring enhanced VGA graphics to play back compressed video still image files and motion video sequences without special decompression hardware. UVC's Multimedia I PC/AT card is the industry's only design which includes video digitization and audio compression/synchronization on a single card. Using UVCU's low-gate-count, single-chip audio-visual processor, the card can accept NTSC or PAL video images and compress them in real time at rates up to 30 frames per second.

MONTHLY MEETINGS AT GORKYS OPEN TO ALL MEMBERS & GUESTS

Every first Monday of each month local SIGGRAPH/LA holds a social evening at Gorkys Hollywood. The address is 1716 N. Cahuenga Blvd, just north of Hollywood Blvd.

Plenty of safe parking is available. This party is open to all SIGGRAPH members and their guests. We'll be in the back room. Eating is cafeteria style, there's live music, lots of tables and lots of room.



LOCAL SIGGRAPH L.A. CHAPTER

Our new Dimension logo was designed by Michael A. Kory Creative/Technical Director of Homer & Associates. Thanks again to ShowBiz Expo for their laser printing and computer use!

This is a forum for SIGGRAPH members, so feel free to take advantage of it. Also, let us know if you need to run an ad. Thank you for your letters!

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CONFERENCE AND TRADE SHOW SCHEDULES

Schedule of Events compiled by MediaSense for Media Letter
published by Christine Hughes. For sub.info. call 305.859.7511

April

- 4/14-4/18 National Association of Broadcasters (NAB) Las Vegas 800.342.2460
- 4/15-4/18 National Computer Conference Anaheim 702.620.8925
- 4/16-1/18 Electronic Imaging West Anaheim 800.223.7126
- 4/18-4/20 Tech Graphics '91 Portland OR 206.285.8361
- 4/19-4/20 2nd Intl. Conf. on Cyberspace Santa Cruz 408.459.4899
- 4/21-4/24 Emerging Technologies Conf. Miami 703.525.2279
- 4/22-4/25 NCGA Chicago 800.225.NCGA
- 4/28-5/2 CHI '91 Reaching Through Technology New Orleans 301.269.6801
- 4/29-5/2 Assn. for Information and Image Management Anaheim 301.587.8202
- 4/30-5/2 Federal Computer Conference Anaheim 800.343.6944

May

- 5/3-5/5 CSICOP Berkeley 716.834.3222
- 5/5-5/8 Demo '91 Palm Springs 415.592.8880
- 5/5-5/8 Technology Solutions San Diego 415.243.0600
- 5/6 First Amendment Challenges Today Stanford 209.835.3030
- 5/7 Multimedia: Where Art Meets the Road San Francisco 415.387.4040
- 5/7-5/9 National Online Meeting New York 609.654.6266
- 5/7-5/9 Texpo '91 San Francisco 800.448.3976
- 5/13-5/17 Image World/Video Expo/CAMMP LA Los Angeles 800.800.5474
- 5/14-5/16 Video Expo Los Angeles 914.328.9157
- 5/14-5/16 Multimedia New York New York 212.226.4141
- 5/16-5/18 Nat. Ed. Film/Video Interactive Media Showcase S.F. 415.465.6885
- 5/20-5/23 Comdex/Spring/Interface '91/Windowworld Atlanta 617.449.6600
- 5/29-6/2 Multiple Minds/Multiple Media Seattle 206.937.0515
- 5/30-6/2 Computer Fair San Francisco 617.449.6600

munications. Works must be accessible to a group audience; that is, cooperatively generated images must be in a form that can be experienced by groups at one or more Portal sites. For example, in the realm of virtual reality, a data-helmet, data-glove, or data-suit transmitter/actuator might be adequate, but a similar receiver/actuator for a single person would require some form of additional output to engage a group audience. In order to realize this project, artists and art organizations around the world are invited to collaborate in the development of its form and content.

We currently have expressions of interest from many sites around the world in addition to Chicago, including: Japan, Australia, Russia, South America, and Europe.

For now, anything goes. We encourage creative exploration of the networking concept and are open to all possibilities. Final submissions must have detailed technical specifications and clear feasibility. Your input will help in determining the exact formats that will provide the greatest functionality.

WHY SHOULD AN ARTIST CARE ABOUT VIDEO COMPRESSION

If you're an artist and can't imagine why you would want to come to a video compression meeting read on....We've got the **Global Interactive Art Network** coming up in 1992! ACM SIGGRAPH '92, the 19th International conference on Computer Graphics and Interactive Techniques, will be held July 26-31, 1992 in Chicago, Illinois. In addition to continuing the tradition of selecting and showing installations, two-and-three-dimen-

sional works, and interactive pieces, the SIGGRAPH '92 Art Show committee intends to provide a forum for global, tele-interactive art, tentatively called the Portal.

Works for the Portal may include but are not limited to: Performance, Image exchange, Co-operative image creation and modification, Tele-presence and Virtual reality, Multi-sensory art/data communication.

The Portal is an artwork or number of artworks that will enable people at locations around the globe to communicate and/or interact with each other by means of computer software and telecom-

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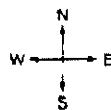
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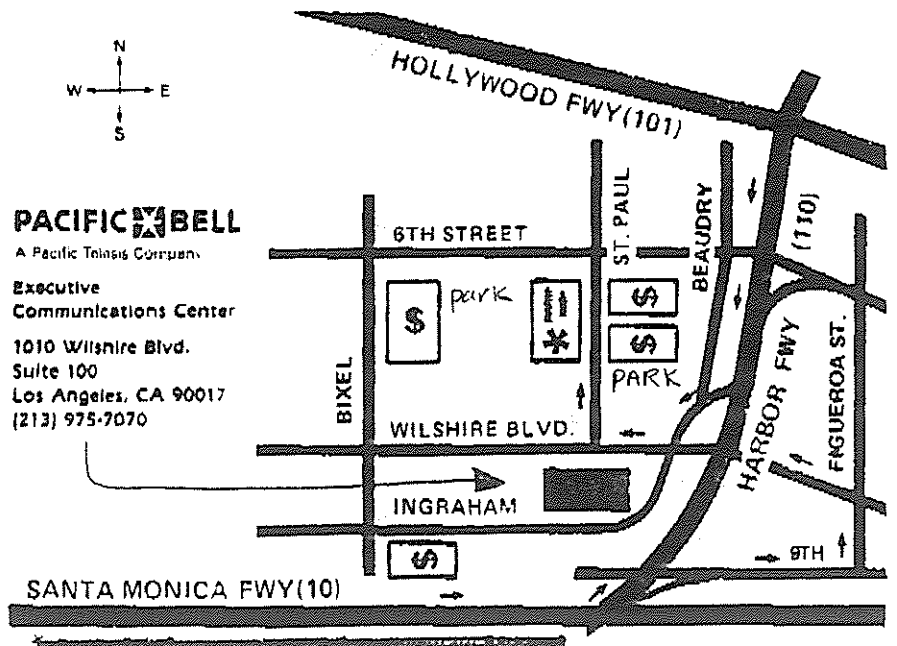
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**SIGGRAPH Meeting
 April 30th
 Video Compression
 Pacific Bell**

More than a meeting, an event! The ISDN Group at Pacific Bell will give an overview of CentrexIS, Pacific Bell's ISDN offering. Using dial-up ISDN lines Byron Wagner will be using JPEG compression to exchange high resolution still images with NTT in Japan, while simultaneously demonstrating collaborative on-line computing, and full video teleconferencing. Thompson Consumer Electronics R&D and Kit Galloway of the Electronic Cafe will also present. Come early to sign up for the demos in the breakout rooms (PC to PC communications, screen/graphics sharing/resource sharing/file transfer/LAN interconnection)



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