1996 MOST INNOVATIVE

NEW PRODUCTS AWARDS

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The UCSD Program in Technology and Entrepreneurship

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SAN DIEGO BUSINESS JOURNAL

SPECIAL THANKS TO

Satellite Video
Productions, Inc.

TELEVIDEO
San Diego

Awards Ceremony Lunch

Hyatt Regency, La Jolla • Thursday, December 5, 1996

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COOLEY GODWARD LLP is a leader in legal representation of high-technology and life sciences companies. Equally adept at representing a two-person start-up as it is acting as counsel to billion dollar public companies, the firm provides cutting edge representation of its clients in venture backed financing, public offerings, mergers and acquisitions, strategic alliances, corporate partnerships, and intellectual property counseling. Clients include QUALCOMM, Tylan General, Presto Studios, TriTeal, and Isis Pharmaceuticals.

IMPERIAL BANK is the ninth largest business bank in California with assets of over $3 billion. San Diego regional manager Jed Harris and his dedicated team of experienced and innovative business bankers focus solely on providing financial services to middle market businesses, technology companies, and entrepreneurs. With offices in California's major business centers, Imperial Bank specializes in industry niches representing the state's major growth markets including telecommunications, biotech, biomed, electronics, software, entertainment, and international trade. Imperial's growth continues with the recent opening of new offices in Boston, Austin, and Phoenix.

JOHNSON & HIGGINS is the world's largest privately held insurance brokerage and benefits consulting firm. With more than 15,000 employees in more than 250 cities and 65 countries, the firm's reputation is built on professionalism and its objective to meet the specific, often unique requirements of the organizations they serve. Johnson & Higgins delivers a team of quality professionals who are dedicated to serving the emerging industries in our region with specialists from health care to software and life sciences to telecommunications.

THE PRICE WATERHOUSE TECHNOLOGY INDUSTRY GROUP offers the knowledge and experience needed to help companies solve complex business problems. They assist companies using resources such as the well-respected Software Industry Business Practices survey, their own Technology Forecast, and EMC Technology Forecast, computers and peripherals benchmarking study, and the FDA survey, among others. With 53,000 professionals in 434 offices in 1 19 countries and territories, Price Waterhouse is able to provide top quality services, whatever the assignment.

THE SAN DIEGO BUSINESS JOURNAL, read by more than 70,000 executives every week, is the region's leading weekly business publication. With a focus on the local market, the Business Journal is committed to providing local executives with news and information they can use to help their businesses grow and prosper. The Business Journal also publishes directories and business guides on topics such as marketing, management, and high technology, along with their annual Book of Lists.

Special Thanks To:

Satellite Video. Your video is important to you. And what's important to us is that you are comfortable with the production process from beginning to end. SVP is your collaborator. And we operate our production house as a team. When you bring a project to us, you, in effect, become a member of the team. SVP is an established leader among quality video production providers. We offer the latest in cutting-edge video technology in modern, 9,000 square-foot, fully equipped facilities. And our talented staff with more than 15 years experience to produce a product that works for you.

Televideo San Diego, since 1976, has been accurately identifying business communications requirements and creating innovative solutions that exceed their customers' cost, performance and scheduling expectations. Whether your business requires video teleconferencing, computer-based editing, a complete corporate multimedia facility or a broadcast studio, Televideo can meet your specific requirements. The video projector was donated by Televideo.

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1996 MOST INNOVATIVE NEW PRODUCTS AWARDS

INTRODUCTION

The Most Innovative New Products Awards competition was established in 1988 to focus attention on the tremendous amount of technological innovation taking place within San Diego's high-tech community. Today's awards ceremony marks the ninth year of the competition. Both large and small companies are recognized today, and all of the finalists and nominees are to be commended for their efforts in developing products which represent technological breakthroughs.
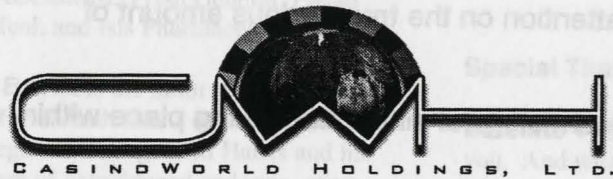
ENTERTAINMENT & LEISURE

CASINOWORLD HOLDINGS, LTD.

GOLDWIN GOLF
AVDP™>System

GRYPHON™

CASINOWORLD HOLDINGS, INC.
The client/server platform system offers an online casino's customers a real-time, interactive experience allowing players from different locations where gaming is legal to play a wide variety of games in a virtual reality environment available on a private Intranet or over the Internet.

COLUMBUS RESEARCH, INC.
Health Track is a Windows-based application. Health Track contains a personal diary, entry screens for storing information on health and nutrition, including user-defined traits, reports and graphs that allow users to compile and compare fitness results, and a glossary of terms for reference purposes. Columbia Research is unaware of any similar comprehensive product available to date.

ELECTRICITI, INC.
PowerGrid Journal is a hybrid paper and electronic technical journal integrating the World Wide Web and traditional four-color paper publishing. PowerGrid Journal reviews applications of network technology, presenting state-of-the-art research, essays and commentary by the world's leading scholars and researchers. Included with each paper journal is one month of unlimited access to the ElectriCiti Internet service.

GOLDWIN GOLF
The AVDP™>System is precision engineering of a golf club to a level that until now has simply not been possible. It is a finely tuned system of balancing the weight of the major components of the club to create maximum performance with minimum swing effort, and it is unique to Goldwin™ Golf.

GREYSTONE TECHNOLOGY, INC.
The MagBall Entertainment System is a turn-key virtual reality hardware and software package that integrates the Andromeda Virtual Reality Platform with MagBall, the Revolution of Sport. The system features: MagBall, a futuristic interactive game of competition made possible through exciting, real-time 3D graphics; networked Andromeda pods for interactivity between players; sensory immersion without isolation; simple joystick controls; a high-resolution display system; and high fidelity stereo sound.

GRYPHON SOFTWARE CORP.
A brick building software program for kids of all ages, Gryphon Bricks includes both a kids and an adult interface on one CD-ROM. With over 300 brick styles and a palette of 12 colors, users can build structures, create dinosaurs or design concept cars — anything they can imagine.

INTEGRATED AUDIO SOLUTIONS
The SPA500 is an extremely high-performance tri-amplified (optionally quad-amplified) loud speaker system with features that are so revolutionary that it redefines the standards for sound reinforcement. The SPA500 is a fully integrated speaker system featuring three built-in amplifiers, a 28 band graphic equalizer, a four way active crossover, an embedded micro processor, a low-cost serial communications network interface, and various I/O connections on the rear panel. The system is controlled by a PC running Windows 3.11, Windows 95, or Windows NT. An optional approach greatly increases overall system performance, reduces setup and tear-down time, increases system reliability, provides remote control and monitoring of up to 250 units, and provides, for the first time ever, a practical solution to a tri- or quad-amplified system.

INTERNATIONAL SPACE ENTERPRISE
Planet Surface Explorers is an interactive robotic system featuring prototype planetary rovers and a computer control system developed by NASA for space missions. Rovers, in simulated planetary landscapes, are telerobotically controlled from futuristic control stations which display video from rover cameras and data from scientific instruments carried by the rover.

MEDIA MINDS
Computer software to take digitized photos from scanners, digital cameras or an source and transform them into exciting albums for business or consumers. Assemble an album using the thousands of dazzling background, stylish frames, and fun sounds; plus, add your own audio annotations to make product catalogs, team photos, vacation albums and more! Then print your albums on color or b/w printers, share with others using the free view or put them on the Internet using the WebAlbum feature. This product will compel the movement to digital photography by working seamlessly with digital cameras and color printers giving users unmatched control and features for working with digital photos. This is the first software program which allows users to create free-form albums complete with photos, text, audio and video. Albums can also be shared via the World Wide Web or via a free viewer program.

PRESTO STUDIOS, INC.
"Buried in Time" is the epic sequel to the critically acclaimed CD-ROM time travel adventure The Journeyman Project. Falsely accused of altering history, you, as Agent 5 of the Temporal Security Agency, must travel the ages - unearthing clues and escaping mortal danger to unravel a chilling conspiracy. "Buried in Time's" three CD-ROMs contain hour-upon-hour of engrossing gameplay, breathtaking full-motion 3D settings, seamlessly integrated live-action video, challenging puzzles, and an incredible soundtrack.

SPORTELL, INC.
The new Sportell system delivers full motion video messaging, electronic yellow pages and customer service notices of events not currently available at ski and golf resorts. Retail sporting goods customers will be able to view product descriptions and demonstrations as well as purchase goods not sold on site. The customer will also be able to view real-time video of resort choices and reserve travel packages.

WINTRISS ENGINEERING CORP.
The OPSIS 5000L Vision System is the bullet sensing system for the True Fire interactive firing system, which is a product of Advanced Interactive Systems, Inc. The PC-based OPSIS 5000L Vision System is configured with two 5000 pixel charge-coupled device (CCD) line scan cameras, the DUET 4000S Digital Signal Processing Board, a power supply for the cameras, and lighting. Both the CCD cameras and the DSP board were engineered and manufactured by Wintriss Engineering. The enclosed data sheets provide additional information for the camera and DSP board.

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GENERAL BUSINESS

@

ATCOM/INFO

EPIC Solutions

SCS

AMERICAN DIGITAL NETWORK

American Digital Network's InterComm service is the one and only complete turn-key consulting service which provides businesses with streamlined corporate communications by integrating new advanced products and technologies that are being developed in the computer, telecommunications, and Internet industries into their existing network infrastructure.

APTEX SOFTWARE, INC.

VITAL ResourceMiner™ is the first electronic solution using artificial intelligence to align curriculum by correlating instructional materials and assessments with state and national standards. Educational publishers and school districts can obtain more accurate and objective results in a fraction of the time taken by manual methods. Educators can individualize instruction by matching individual student needs to relevant instructional resources. VITAL ResourceMiner (TM) is capable of correlating foreign language text to English objectives, enhances professional development through research, and helps administrators do regulatory research by correlating queries with standards and regulations.

ATCOM/INFO

The ATCOM cyberbooth provides users with fast and easy access to E-mail, the World Wide Web, multimedia presentations, Internet news groups, ticketing services, information about local attractions and events and targeted advertising. These fast and easy-to-use kiosks are located in the high-traffic and high-wait areas for business travelers such as convention centers, airports and hotels. A hotel-room solution provides fast and easy access to e-mail and the Internet as well as Microsoft Office Suite -- Excel, Word, and Powerpoint.

CAREMED CORP.

Med Profile is a computerized medical information system that will transform a medical office into a more effective, paperless, profitable, organized and optimal one. It is a very comprehensive software system that reduces overhead significantly and increases income ethically.

ENCAD, INC.

The NovaJet Pro50 prints 49.6 inches wide by over 150 feet. Its motorized media feed and take-up system winds finished images onto a separate take-up spool. The factory-integrated extended ink system contains four 500 ml reservoirs of ink, refillable during printing operations with no worry of ink cartridges running out in the middle of print jobs. This printer is well suited for imposition proofing, large murals, signs, posters, banners and digital photography.

EPIC SOLUTIONS

Epic Solutions recently answered a challenge on the softer side of public safety. Managing inmates and tending children in a protected environment are similar — the technique is just more gentle. We have modified our HOLD'em prison management program for San Diego A.B. and Jesse Polinsky Children's Center, creating HUG'em.

GREEN FLASH SYSTEMS

Web Garage is an original research/surveyed database directory of 4,000 automotive businesses in San Diego County. Consumers choose repair shops by three different goegraphic searches, car type, repair services desired, days of operation, credit cards & shuttle services.

GUARDIAN PROGRAM, INC.

Guardian Program's "Video Record Management System" will accomplish the following: (1) deter child and elderly abuse and neglect; (2) protect care providers from false accusations and ruined reputations; (3) increase security, and lower the threats of vandalism crime; (4) reduce liabilities and insurance and (5) be a system that pays for itself.

HEALTHCARE INFORMATION SYSTEMS

CO/MED is a pocket-sized, power-efficient, handheld computer, navigating a medical expression, object-oriented data base. When combined with patient information, at the point of care, legally correct charts and analyzable data are produced for export to existing systems. CO/MED economically and unobtrusively optimizes health care.

HIGHTEXT INTERACTIVE, INC.

A new and expanded version of Statistics CrashCourse, Statistics v. 2.0 covers the basics of statistics, including more advanced topics such as ANOVAs and Student t-tests. The course also contains a valuable bonus: a limited edition of Jandel's popular statistical analysis software, used by scientists, researchers and business professionals around the globe for data analysis — and it's free!

HORIZONS TECHNOLOGY, INC.

THE Bagel is an economical way to distribute marketing information, sales information, products, technical support and evaluation products all at the same time. It is a CD-ROM for distribution to potential customers that contains information on products, demonstrations of products, and products in a locked format. It allows the customer to link back to the software producer to purchase and unlock software via the WWW, and communicate to the producer via E-mail.

LIGHTSPAN PARTNERSHIP

Lightspan expands the learning opportunities of America's children by extending the school's learning environment into the home. Lightspan's innovative reading/language arts and mathematics software for children in grades K-6 is used in the school and in student homes. It is the first software available to schools that effectively creates a school-home connection which fosters parent, student and teacher involvement, communication and successful application of skills and knowledge.

REMEDIA

This CD-ROM includes interviews with experts working to save endangered animals and habitats and up-to-date information on numbers of many endangered species, as well as reasons they are endangered. Movies show many of the animals in their native habitat. Includes a searchable database of endangered and threatened animals as well as project work for students, and maps of the world's major biomes and discussion of their features and wildlife.

HIGH-TECH ELECTRONICS

SCS CORP.
SCS' I-2 System features flexible, durable identification labels that hold 1K of secure, permanent, read/write memory. The I-2 System enables simultaneous programming and scanning of labels, costs as little as $.50 per unit and is currently used for inventory control, security tags, textile rental/cleaning, ski lift tickets and even sushi plates.

SMARTEK EDUCATIONAL TECHNOLOGY, INC.
The CD-ROM multimedia three-dimensional nature of Verbal Impact allows a professional to quickly learn vocabulary in an entertaining way. The content is Johnson O'Connor Research Foundation-based with over 60 years of research and 750,000 Americans tested. Learning Latin, Greek or other root origins of words through a synonym method allows for one of the most efficient learning vocabulary software programs ever created. Vocabulary development is an important opportunity for corporate America to upgrade basic communicatin skills, increasing productivity, and improving customer service.

SPUTNIK TRANSLATION SERVICES
Sputnik Translation Services (STS) has created a unique business structure which allows development of high quality products at a low cost and short turn-around times. This business structure, consisting of only one salaried employee, is accomplished through innovative use of the latest technology. STS uses the best translators worldwide by means of the Internet, and provides worldwide client access through the WWW. STS assists customers in communicating directly with international clients (lowering their communication costs) through modification of Internet connection, allowing foreign language readability. STS equipment is compatible with any system used by the customer, and STS uses the latest in scanner technology (including Optical Character Recognition software), machine-aided software tools, graphics software, foreign language spelling checkers and elecronic dictionaries. STS has configured AutoCAD to allow keyboard text input in any language, and provides customers with electronic file output compatible with any CAD software application.

STRATEGY RESOURCE GROUP
ScoreCarding is a measurably guided method for shaping valuable relationships. ScoreCarding helps improve performance and engineer changes with internal and external partners. Guided by software and applying new skills, users of ScoreCarding impact businesses by influencing partners, suppliers and internal work groups to take cost saving and profit generating actions.

AEM, INC.
AEM's P600L Current Limiting Fuse is designed and manufactured specifically for Hi-Rel satellite applications. A thick film construction allows for greater shock and vibration exposure and will not outgas in a vacuum. Exhibiting extremely predictable clear-times (blow times), these fuses give satellite designers greater flexibility for circuit design and assured circuit protection. With an established proven track record, P600L Fuses have been used successfully in satellite applications for over 20 years.

ANDATACO
Enterprise Storage Packaging (ESP) is a revolutionary cable-less enclosure for disk, tape, optical and RAID and is scalable from desktop to data center. Its intelligent microprocessor monitors a system's components and proactively alerts administrators of possible failures with visual, audible, e-mail and web-based alarms. ESP supports UltraSCSI and cools 10,000 RPM drives.

APPLIED DIGITAL ACCESS
The Remote Module is a new T1 Network Interface Network (NIU) that non-intrusively monitors the performance of T1 circuits all day, everyday. This new method of performance monitoring revolutionizes the way service providers manage T1 services. The Remote Module, installed at the network boundaries between the service provider and the end-user provides real-time performance monitoring information, enabling service providers to quickly and conclusively determine where circuit troubles are located.

COMSTREAM CORP.
VSATPlus II is a significant technological advancement that enables emerging and developing countries with no substantial telephone services to quickly, efficiently and economically deploy a telephone infratructure. Previous technologies, such as wirelines and microwave, have been too expensive to deploy due to constraints, such as mountains, desert, and jungle terrain. VSATPlus II, using state-of-the-art digital satellite technology, easily overcomes these obstacles allowing countries to efficiently offer telecommunication services to their people by enabling fast deployment strategies at breakthrough cost structures.

CYMER LASER TECHNOLOGIES
The 5000 series KrF eximer lasers, ELS-5000 and EX-5000, currently incorporated into DUV steppers and scanners by all major microlithography exposure tool manufacturers, are used as exposure radiation sources. These lasers achieved the highest performance levels among all commercially available microlithography lasers; enable semiconductor manufacturers to produce more chips at lower costs; meet safety and design guidelines, including SEMI 51-93 and CE; and can be installed virtually anywhere steppers/ scanners are installed.

ENERGY COMPRESSION RESEARCH
ECR's underlying Light Activated Silicon Switch (LASS) technology is an "enabling technology" which has spawned a family of products. Light is used to switch a semiconductor at speed and power of orders faster than all other methods. Specifically, ECT developed, patented and introduced a family of Pockels cell (optical shutters) with unparalleled performance and compactness which, in turn, has allowed us to develop this family of microlasers. These microlasers are the only sub-nanosecond, pulse-width, Q-switched lasers on the market. It fits in your hand, is jitter free and operates at 5 kHz.

ERISS CORPORATION
The Workforce Information Network (WIN) is a Windows-based, online client-server application that delivers online access to the world of work. It is serving as an electronic infrastructure for public workforce agencies, providing built-in, free internet access, E-mail, teleconferencing, job banks, talent banks and focused information to job seekers, employers, schools and colleges.

HUGHES NETWORK SYSTEMS, INC.
The On-Star system is comprised of GPS (Global Positioning Satellite) technology, cellular telephone communications and 24-hour customer service, which provides a comprehensive range of safety, security, information and convenience features to the driver. The vehicle electronics support: automatic airbag reporting; theft detection and tracking; route guidance; door lock and unlock; vehicle location; digital memo recorder; and handsfree voice-activated cellular telephone.

I-BUS SYSTEMS
The IFTA (Integrated Fault Tolerant Architecture) computer platform is designed to meet the intensive demands of mission-critical applications making it ideal for telephony and communications servers; equipped with hot-swapable power supplies and six front-accessible drive bays, the IFTA platform provides scalable fault tolerance in a PC-compatible chassis.

LAND-5 CORPORATION
The DS200 integrates a high-speed SCSI-to-SCSI RAID controller into the LAND-5 storage enclosure. By incorporating the controller technology into the system, several advantages are gained. The DS200 is fully host independent and does not require any software drivers. It appears to the host as a single SCSI ID on the host bus adapter of your choice. Also, the controller's own fault monitoring circuitry is integrated into he EWS100 systems, allowing EWS100 to monitor controller performance. In addition, the

DS200's RAID incorporates its own processor, freeing the host processor and bus from the management tasks of administrating the RAID functionality.

OVERLAND DATA, INC.
LibraryXpress™, the automated DLT™ tape library system form Overland Data, has established new standards for scaleable storage. It is a truly scaleable library that eliminates the physical limitations of conventional library designs. The LibraryXpress LXB generates an automated storage capacity of up to 400 GB with a data transfer rate of more than 10 GB per hour. Users simply snap on additional modules when required to create a single library of up to multiple terabytes capacity.

PCSI
PCSI's Personal Access Link (PAL) is a multimode phone that operates as a fully functional cellular phone, cellular circuit-switched modem and Cellular Digital Packet Data (CDPD) modem. Users can make and receive phone calls, send and receive messages, access Internet and Intranet information, and use network-based or device-based applications.

PROXIMA CORPORATION
The Desktop Projector™ 9100 is a compact LCD projector designed for the workstation market. It displays high-resolution PC, Macintosh and workstation images that are bright enough to view with the room lights on. Its Fit-to-View® technology allows full-screen viewing of images from 640x480 to 1280x1024.

PROXIMA CORPORATION
The MediaExpress™ electronic presentation system is an option with Proxima projectors that allows you to present computer images without being attached to a computer. You simply save your presentation as an Adobe® PDF (Portable Document Format) file onto a disk, and insert the disk into the projector.

SAIC
SAIC and UCR have developed HIPROTECT II for use in the preservation of remote archaeological sites. The system combines UCR's expertise in surveying and preparation of archaeological sites with SAIC's remote telemetry unit (RTU). The RTU integrates a wide variety of covert sensors to detect, display, and record intrusion.

SPACE ELECTRONICS
RAD-PAK™ is a line of space radiation hardened microcircuits for spacecraft application which utilizes integral radiation shielded packages. RAD-COAT™ offers space programs the ability to fly lightweight survivable electronics without the cost of traditional radiation hardening. Stresses are minimal, and substantially less than an axial leaded capacitor. RAD-PAK™ incorporates proprietary radiation shielding materials into custom high-rel packages to increase total-dose survivability of commercially available parts. These special high-Z alloys provide shielding, yet are capable of passing all MIL-M-38510 and MIL-STD-883 standards for reliability and quality. Standard products include microprocessors and peripherals, SRAM, E^2PROM, and gate arrays.

SPACE ELECTRONICS
Latchup Protection Technology Microelectronics Family allows space programs to use state-of-the-art commercial devices by using an innovative protection and packaging technique. Latchup Protection Technology (LPT™) allows: A/D converter to latchup; monitors power supply currents; limits power supply currents; provides power supply shutdown at a preselect current limit; and provides a preset time period to allow single-event induced latchup paths to dissipate and automatically return the power supply to original voltage. This product represents a major cost reduction and an 80% decrease in size over previous space technologies.

TV/COM INTERNATIONAL, INC.
TV/COM's QPSK features patented variable-rate technology that combines the functions of three chips into a single ASIC and includes a consumer-grade tuner that improves signal acquisition by up to 50 percent. The QPSK Receiver can be used in consumer satellite set-top boxes and commercial digital satellite decoders. This represents an important element in the cost reduction trends necessary to bring digital satelllite communications into households around the world.

TV/COM INTERNATIONAL, INC.
TV/COM's Quadrature Amplitude Modulated (QAM) cable receiver provides 256 QAM throughput at the same cost as the standard 64 QAM implementation. The QAM receiver is a circuit board designed to be incorporated into both consumer cable set-top boxes and commercial digital cable decoders. Featuring variable-rate technology that combines the functions of two chips into a single ASIC, 256 QAM throughput allows 30 percent more data transmission over 64 QAM in the same channel bandwidth. TV/COM has moved ahead of its competitors by implementing 256 QAM as a standard capability.

LIFE SCIENCES

GEN-PROBE

IRORI
QUANTUM
MICROCHEMISTRY

M®

Mycogen

CARDIODYNAMICS

The BioZ System is a noninvasive hemodynamic monitor that operates under the principal of Thoracic Electrical Bioimpedance (TEB). It only requires the application of 4 dual electrodes to operate. CardioDynamics uses sophisticated proprietary Digital Signal Processing technology to measure and calculate twelve physiological hemodynamic parameters. These parameters are: Cardiac Output, Stoke Volume, Preload, Index of Contractility, Accleration Index, Afterload, Left Cardiac Work, Systolic Time Ratio, Thoracic Fluid Content, Heart Rate, Pre-Ejection Period, Ventricular Ejection Time.

DESIGNDESIGN, INC./ QUANTUM DESIGN

designDESIGN's rejuvenation of the MPMS XL focuses on ease-of-use. The redesigned housing, with flip-down panels and removable top, facilitates easy service, maintenance, and trouble-shooting, while encasing advanced magnetrometric technology. The redesign has also spawned a strong family identity and an expanded international appeal for Quantum Design.

GEN-PROBE

Gen-Probe's Amplified MTD test uses ground-breaking genetic probe technology which includes its patented Transcription Mediated Amplification (TMA) system. This testing system enables a laboratory to detect as little as one cell of tuberculosis from a specimen by isolating a specific part of the Mycobacterium tuberculosis genetic information and multiplying it a billion-fold. The overall sensitivity of the assay is 95.5 percent and its specificity is 100 percent, which provides the physician with excellent information to aid in the diagnosis of tuberculosis.

INVITROGEN CORPORATION

The FliTrx Random Peptide Display Library is the latest innovation for the study of protein-protein interactions. Unlike phage display, it utilized the bacterial flagellin and thioredoxin genes to display random dodecamer peptides on the surface of E. coli. Antibody-antigen recognition, receptor-ligand binding, and enzyme-substrate specificity can be characterized using a simple panning protocol.

IRORI

The AccuTag-100 Combinatorial Chemistry System was introduced in June of 1996 and is already in use at 19 pharmaceutical companies providing research scientists with more new drug candidates faster, in higher purity, and in greater quantity than ever possible before. The key advantages of the system are that it accelerates the drug discovery process, provides large numbers of new experimental compounds rapidly, provides large quantities of each experimental compound for screening as potential new drugs, and provides experimental compounds as discrete individuals rather than complex mixtures.

KINETIKOS MEDICAL INC. (KMI)

The Universal Total Wrist is a new-generation implant which provides an innovative alternative to wrist fusion. It preserves the patient's wrist motion and demonstrates consistent pain reduction while allowing the patient to perform everyday tasks arthritis may have prevented them from doing previously.

LASER DIAGNOSTIC TECHNOLOGIES, INC.

The AngioScan uses a low-power laser beam to scan across the human retina in order to obtain real-time, digital ICG angiograms of the retinal vasculature. The sensitive laser scanning optics allow the system to be used on undilated eyes, avoiding the discomfort and added risk of eye drops, and reducing the amount of dye needed by 50-75%. This results in lower cost, less risk, and higher patient comfort. The AngioScan's proprietary dual detection system allows the simultaneous acquisition of the angiographic image and the retinal image, providing important advantages over older technologies.

MEDICAL DEVICE TECHNOLOGIES

The new Personal Alarm System (PAS) from Medical Device Technologies provides a missing link in sterile barriers. This new device give healthcare professionals and their patients an added margin of safety against the transmission of fluid-borne pathogens like HIV, Hepatitis B, and straphylococcus aureus. The PAS consists of the alarm unit, a neck chain and a patient lead. If gloves are becoming saturated or are leaking, the PAS delivers a vibrating signal. The more serious the breakdown in protection, the stronger the alarm. Battery powered, the PAS will not interfere with medical equipment or affect established surgical protocols.

MYCOGEN CORPORATION

NatureGard™ seed contains synthetic copies of Bacillus thuringiensis bacterial genes that encode for production of a protein toxic to European corn borer, a major corn pest. The transgenic plants need no corn borer insecticide treatment yet suffer virtually no damage.

NOVATEC LASER SYSTEMS, INC.

Novatec's LightBlade™2 is the world's first solid-state refractive laser performing surface photorefractive keratectomy (PRK) today. The system is capable of performing all PRK procedures including myopia, Hyperopia and astigmatism, by surface PRK or LASIK. The automated eye tracker, with rapid response time and a large tracking zone of 10mm diameter and the computerized beam scanning delivery offers enhanced flexibility, 12 mm optic zone, centration predictability and accuracy.

ORTHORX, INC.

The OnTrack knee brace system is indicated for patients with patellofemoral malalignment, patella dysfunction and chondromalacia patella. This is a five-part system consisting of a neoprene cuff, neoprene strap, tape patches, activator and video-based home exercise program. This is the only brace radiographically proven, through research clinical trials, to realign the patella. The home exercise program strengthens the medial quadriceps muscle (VMO), thereby keeping the patella aligned, and helps eliminate lateral tracking of the patella. By using this system, patellofemoral pain can be moderated, allowing performance of a home based execise program. Patient compliance is optimized by provision of the exercise video tape. With patella pain eliminated, patients are able to return to work-related and athletic activities. Use of this brace may provide long-term relief of patellofemoral pain, thereby eliminating the need for surgery. Thirty-two tape patches are included with the initial OnTrack system. As the patient continues use of the brace, additional tape patches need only to be purchased.

QUIDEL CORPORATION

The QuickVue One-Step H. Pylori Test is an immunoassay intended for the rapid, qualitative detection of IgG antibodies to Helicobacter pylori in serum, plasma and whole blood as an aid in the diagnosis of H. pylori infection in patients with clinical signs and symptoms of gastrointestinal disease. H. pylori is responsible for 80% of the five million ulcers in the U.S., is implicated in chronic gastritis, and is recognized by the World Health Organization (W.H.O.) as a Class 1 carcinogen that increases a person's risk of developing stomach cancer. The QuickVue One-Step H. Pylori Test allows for immediate diagnosis and effective theapeutic intervention to help avoid expensive invasive procedures, recurrence of peptic ulcer disease, and increased risk of stomach cancer.

RECOMBINANT BIOCATALYSIS, INC.

CloneZyme libraries are groupings of 5 to 10 novel recombiant enzymes (proteins) which are useful for chemical synthesis and industrial processes. Customers use these screening kits to identify novel enzymatic activities when used with their specific substrates. These enzymes can be customized for demanding industrial applications through directed evolution (DirectEvolution). The enzymes are derived from organisms from extreme environments worldwide whose nucleic acids have been cloned and screened for specific novel enzymatic activities.

SUTTER CORPORATION

The unique design of the WaveFlex C-F-T hand CPM (Continuous Passive Motion) device includes four finger actuators that move each finger individually, mimicking the way a therapist would move a patient's finger. Unlike old technology which uses a single drive bar to move all four fingers, the WaveFlex C-F-T allows each finger to follow its own natural path of motion into a full composite fist. This includes tucking the DIP (distal interphalangeal joint) into a true fist, which no single drive bar device on the market can do.

VIA MEDICAL CORP.

VIA's Blood Chemistry Monitoring system is the next generation in Point of Care (POC) testing — uniquely solving the problems and enhancing the advantages. The VIA system will become an intregral monitoring component enabling timely theraputic intervention, linked into a common information system. The System consists of a monitor, a disposable electrochemical sensor module, an I.V. set and infusible calibration fluid bag. The sensor module is attached to either the intravenous or intra-arterial catheter on the patient. When a measurement cycle is initiated, the following steps are performed automatically: the sensors are calibrated, the monitor's pump reverses direction and gently draws blood into the I.V. tubing to cover the sensors, the measurements are taken and the monitor reinfuses the blood back into the patient. Results are displayed and printed approximately one minute after the initiation of the sample cycle. The sensors are exposed to blood for only brief periods, and are cleansed and recalibrated between every measurement. The System can provide automatic sampling both at preset intervals and on demand.
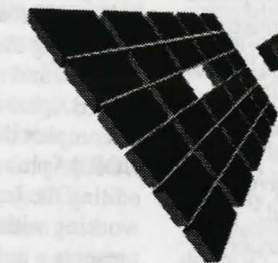
SOFTWARE

ACUCOBOL, INC.

ACUCOBOL®-GT unites Acucobol's powerful native graphical user interface with open-systems portability across over 600 platforms for character-based and graphical environments. ACUCOBOL®-GT allows the programmer to add floating windows and graphical controls to applications using COBOL extensions consistent with traditional COBOL syntax and methodologies, without learning a new language. ACUCOBOL®-GT transcends other COBOL compilers by providing built-in GUI support, allowing COBOL programs to run as native GUI programs without learning a new language.
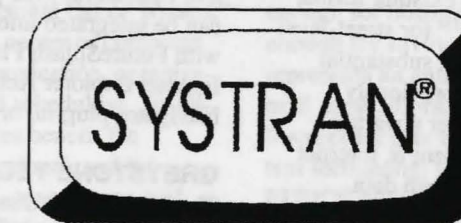
APPLIED DIGITAL ACCESS

Sectionalizer eliminates unnecessary dispatches to a reported trouble location and significantly reduces operating expenses by automatically identifying the location of problems in a telephone company's network and automatically closing the trouble reports on high-speed data circuits that are caused by problems outside of the network. The key to Sectionalizer's performance is its expert systems software technology. This software analyzes data from T3AS systems and Remote Module network interface units allowing Sectionalizer to automatically determine where the cause of degradation is in the network. Sectionalizer then informs the local telephone company whether the problem lies in its network or not. This information is extremely valuable to telephone companies since the majority of all reported problems on high-speed data circuits are not in the telephone company's network. Sectionalizer eliminates 78% of repair dispatches for high-speed data communications circuits and reduces the average time to repair these circuits by 40%. Since a typical dispatch costs $175, the cost savings realized by telephone companies through the use of Sectionalizer are quite significant.

FINALISTS

APTEX

SYSTRAN® Software, Inc.

WRIGHT STRATEGIES

APTEX SOFTWARE, INC.

Convectis frees companies from the labor-intensive indexing of digitized data, enabling them to build powerful corporate knowledge bases which enhance mission-critical decisions and processes. It is an intelligent, next-generation solution for the complex problem of categorizing, summarizing and routing high-volume, real-time document streams. Convectis is the first solution to apply patented "Content Mining" technologies, incorporating neural networking and artificial intelligence.

CARDIFF SOFTWARE

Teleform 5 collects data via fax/scanner into leading databases, using powerful Tri-CR™ technology for the highest-level accuracy in handprint, OCR, OMR, and barcode recognition. Version 5 supports Windows 95, processes existing forms, and offers TrueAddress™ for street-level address validation. It is a substantial advance over what was previously available because no other program combines fax, scan, modem & Internet technologies to capture form data.

ENERACTION, INC.

FenSpec™ takes difficult to obtain technical building product data in static form in numerous formats and transforms it into significantly more useful dynamic information. It provides design and specifying professionals an easy-to-use but powerful search and retrieval software tool, saving the user time, dramatically improving the user's ability to compare products based on performance, and educating the user on fenestration products through resources included, such as a Glossary and Efficient Glazing Systems Guide.

EXPERSOFT CORP.

CORBAplus is a comprehensive implementation of the Object Management's Groups CORBA 2.0 specification. With a unique approach to distributed object computing that includes asynchronous requests and multi-threaded support, CORBAplus simplifies the development of complex distributed applications. CORBAplus also delivers visual tools for editing the Interface Repository and working with OLE objects. This product presents a unique approach to distributed object computing by enhancing the emerging distributed object standard (CORBA) with asynchronous request mechanisms and multi-threaded support.

FUTUREWAVE SOFTWARE, INC.

FutureSplash Animator lets Web page designers and developers create small, fast, vector-based animations and interactive buttons for Web pages. Animations can be integrated into HTML Web pages with FutureSplash Player as a control for Internet Explorer ActiveX, a Netscape Navigator plug-in, or a GIF animation.

GREYSTONE TECHNOLOGY, INC.

The Real-Time Advanced Graphic Environment (RAGE™)/Virtual Unmmaned Air Vehicle (VUAV) application provides a realistic, immersive, virtual world visualization used by the military to allow UAV operators to participate in theater training exercises without actually having to launch the UAVs. RAGE not only accepts data from over 8000 sources to render and display entities in 3D in the virtual world but RAGE also allows an operator to move through the virtual environment and adopt any point of view in the environment — pilot, tanker, foot soldier or God's-eye-view of the environment. Most useful for the UAV application is RAGE's ability to simultaneously model the UAV sensor view, for reconnaissance coverage, and a 'stealth' world view for the UAVs position in the battlespace. RAGE can be used live or in playback mode for mission debriefs.

HORIZONS TECHNOLOGY, INC.

Power!Video is the highest quality, software-only video compression and playback product available for both the PC and Macintosh. Compression times are three to five times faster than Cinepak and up to ten times faster than Indeo or MPEG1, enabling many features in digital video and multimedia applications not previously possible. Power!Video uses interframe compression techniques so you have truly random access to every frame. Due to its highly efficient design, Power!Video offers full-screen, full-motion video on MAC and PC software — no added hardware is needed. Power!Video compresses and displays every frame of video much like motion JPEG hardware-based video. Power!Video integrates seamlessly with common video editing software products such as Terran's MovieCleaner Pro, Ulead's MediaStudio Pro, or Adobe's Premiere as an additional codec option.

INTERVU INC.

InterVu's mission is to deliver video and other multimedia data over the Internet that is faster, cheaper and has higher quality than existing solutions. In the 9/95 to 9/96 time period InterVU developed and delivered the MPEG Video Player that functions as a plug-in to Netscape Navigator. The Player serves as the front end (i.e. the end user's component) of the InterVU video delivery service. Users benefit from the Player because the video file can be downloaded, they can see the first frame of the video before it is downloaded to decide whether to view it, and they can play it back at the originally recorded quality without having to re-download it. The overall benefits are reduced Internet bandwidth and less wasted user time because the user can terminate the downloading prior to the end of the video, and can play the entire video back from local hard disk storage.

MICROVISION DEVELOPMENT

WebExpress opens the door for virtually anyone to create pages for the World Wide Web by providing visual page design with the simplicity of a word processor, through results which look just as they will in a web browser, and by eliminating the need for an understanding of the underpinnings of HTML coding. Previously, in order to create documents for the World Wide Web, it required a substantial learning curve or programming knowledge of HTML. Even then, it would require switching from an editor to a browser, and back again, to obtain the desired results. WebExpress solves both of these problems by enhancing productivity and enriching the experience, while allowing users of all skill levels to leverage the World Wide Web.

MOLECULAR SIMULATIONS INC.

WebLab™ is a new environment that will link scientific applications to established Web server technologies. WebLab will allow you to run scientific programs through browsers such as Netscape Navigator™. You interact with browser pages to guide computations and information retrieval on servers that could be in the next room, at another site within your organization, or anywhere on an accessible public or private network. WebLab allows you to rotate, translate, scale, and label 3D graphical models of molecules, macromolecules, and crystals. You can view these models in a wide variety of informative graphical representations, place images of them in other software applications and activate editing of the images from within these applications. The power of WebLab Viewer lies in its ability to interact with and modify these molecular images while they are embedded within the other applications.

MORRIS-VANCE & ASSOCIATES/ CYKIC SOFTWARE

The HYPE-IT Server provides the complete environment needed to produce the most sophisticated web site possible in today's competitive Internet market. Unique among all other servers, HYPE-IT provides not only the basic Internet service drivers, but also includes a complete relational database development environment for quick and easy CGI programming. This is in addition to an administrator system menu that supports an HTML editor, comprehensive connection tracking reports/graphs and much more. This is the only fully integrated database interactive World Wide Web server, web developer and administrator with database applications that run on client/server.

MULTISOURCE

DataCom 2000, "Personal Office Wizard," is designed to be the center of computer activity for all communication, organization, information and scheduling. Its all-encompassing features benefit the individual, the professional, and the manager in business, government, and education, raising efficiency and productivity. It especially enables individuals and smaller enterprises to compete on a larger scale. Other computer programs are directly accessible from within DataCom 2000, which operates in a Windows environments and also on networks. DataCom replaces the personal information manager (PIM), setting a higher standard and creating a new software category, the Personal Office Wizard (POW).

NEOCOR TECH LLC

The Neocor MT Suite translates Japanese text into English and vice-versa. Neocor software provides the complete Japanese communications solution in one box by operating on English versions of MS Windows. Americans can finally translate, display, and print Japanese documents, articles and E-mail from the comfort of an English system. It is also the only bio-directional Japanese translation suite that also runs on Windows 95.

QUALCOMM

Eudora software is used by over 10 million people worldwide. Eudora Pro includes powerful mail management tools to help you organize your E-mail and ensure reliable attachment delivery. Eudora Pro v3.0 for Macintosh is simple enough for first-time users, reliable enough for businesses, and powerful enough for savvy users. Eudora Pro v3.0 represents an entirely new concept in E-mail applications, incorporating powerful features such as improved filtering, rich text formatting, active url links, and EUDORA's exclusive plug-in application technology, Extended Messaging Services API (EMS API) which allows customers to plug in third-party applications to extend the capabilities of Eudora. These new features provide E-mail users with the utmost in E-mail flexibility, organization, management, and Internet access.

SYSTRAN SOFTWARE, INC.

SYSTRAN PROfessional for Windows brings SYSTRAN Software, Inc.'s 28-year experience in developing mainframe machine translation programs to the PC. With a Pentium processor, a user can translate text at more than 600 pages per hour. The company offers natural language machine translation software in 13 language pairs with six more available soon. SSI has been able to access 28 years-worth of mainframe dictionary building and offer it to PC users. SSI maintains large, multi-target language dictionaries that contain a total of more than 2.5 million entries in 16 different languages. Other companies' translation dictionaries and linguistic technology are primitive by comparison.

TRITEAL CORP.

TED™ 4.1 allows users, system administrators and developers to easily access applications, data and network resources from a common, intuitive operating environment across most leading platform uses in the enterprise client/server market. TED operates across more than 26 leading platforms, including IBM, Sun, HP, Microsoft Windows, Macintosh, and X terminals. TED includes features such as an integrated web browser, fax tool, E-mail, group calendar, file and application manager, and much more.

VISTA INFORMATION SOLUTIONS

STARVIEW™ is the complete environmental information reporting tool for your desktop. StarView reports concise review of environmental risk associated with a specific property and its surrounding area. StarView combines Microsoft Windows with VISTA's risk management report system featuring the most comprehensive and current environmental hazard database in the nation. StarView gives the customers complete control of what type of report they want, how many they want and when they want it.

WRIGHT STRATEGIES

The FormLogic® Solution extends the power of your enterprise systems to the hands of field-based workers. From rapid development and deployment of applications, to administration and management of mobile users, FormLogic enables existing enterprise information systems to be extended using handheld computing devices (HCDs) operating on various platforms.

PREVIOUS WINNERS

1995: Environmental Technologies: San Diego Gas & Electric—Endangered Species Program; General Business: Azron Incorporated—Electronic Medical Records System; High-Tech Electronics: Pacific Communication Sciences, Inc. (PCSI)—Personal Handyphone System Digital Cordless Chip Set; Life Sciences: Gensia—GenESA®; Software: TriTeal—TriTeal Enterprise Desktop.

1994: Environmental Technologies: Malek Incorporated—Caustic Regeneration Membrane Process; "X" category (now General Business): Strain Monitor Systems, Inc.—Smart Material Strain Monitor; High-Tech Electronics: Quantum Magnetics—Quantum Magnetics Contraband Detector; Life Sciences: Science Applications International Corporation—Acustar™ I Advanced Surgical Navigation System developed in conjunction with the Codman Division of Johnson & Johnson Professional; Software: Tudor Publishing—Assessment Management System™.

1993: Biotechnology/Biomedical: Laser Diagnostic Technologies, Inc.—Nerve Fiber Analyzer; High-Tech Electronics: QUALCOMM, Inc.—CD-7000 Hand-Held Portable Phone; Software: HNC, Inc.—Falcon™; "X": Gamma-Metrics, Inc.—Toxic Chemical Analyzer.

1992: Biotechnology/Biomedical: Biosite Diagnostics—Triage™ Panel for Abused Drugs; High-Tech Electronics: Applied Digital Access, Inc.—T3AS Performance Monitoring and Test System; Software: Simpact Associates, Inc.—Remark! for Windows; "X": VORAD Safety Systems, Inc.—VORAD Safety Management System.

1991: Biotechnology/Biomedical: Stratagene—Big Blue Mouse Mutagenesis Assay; High-Tech Electronics: Proxima Corporation—Cyclops and Ovation; Software: HNC, Inc.—Database Mining Workstation; "X": American Innovision—OmniChrome-9.

1990: Biotechnology/Biomedical: Stratagene—ImmunoZap™ Technology; High-Tech Electronics and "X": Biomagnetic Technologies Inc.—Magnes®; Software: HNC, Inc.—ExploreNet and IDEPT.

1989: Biotechnology/Biomedical: Pyxis Corporation—Medstation System; High-Tech Electronics: ComStream Corporation—MicroStar Satellite Data Terminal; Other: Quantum Materials—Aqua Clean Solder Paste.

1988: Biotechnology/Biomedical: Mycogen Corporation—M-One™ BioInsecticide; High-Tech Electronics: Cymer Laser Technologies—Series CX Excimer Laser; Other: Athens Corporation—Piranha Piranha Reprocessor.

SELECTION COMMITTEE

1996 MOST INNOVATIVE
NEW PRODUCTS AWARDS