New Media Fellowships 2005 Project Cover Form

YOUR NAME HERE

Joel Slayton

Title

The Analogous Landscape

Genre

New Media

Applicant's Role in Production

Artist/Director

Production Format

Installation

Brief Project Description (do not exceed space given below)

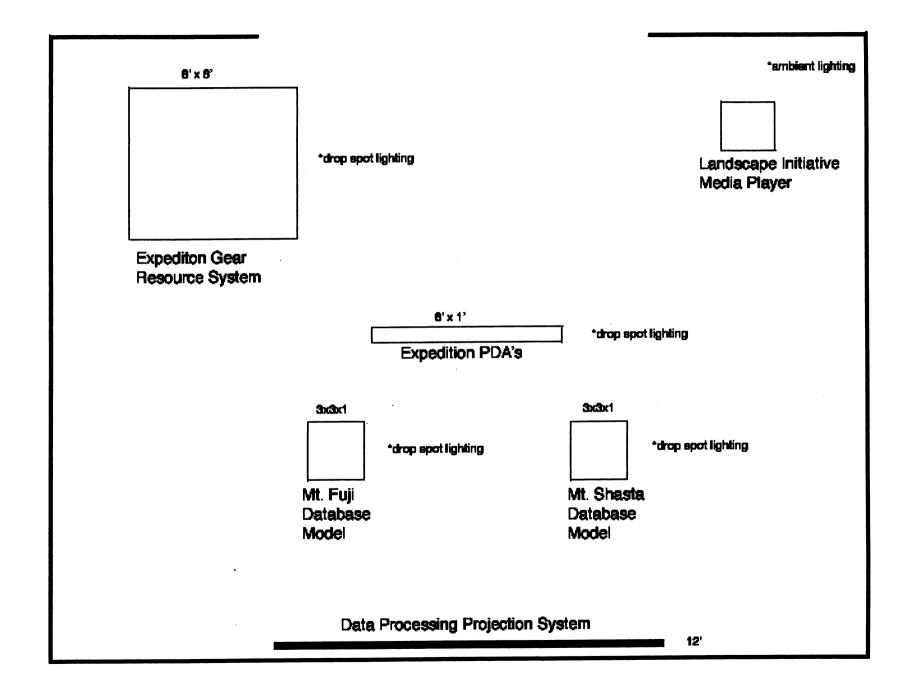
The Analogous Landscape project merges adventure sports, art, and information technology. The centerpiece of the project is the climbing of ten high altitude volcanoes around the Pacific Rim-Ring of Fire. An evolving media installation is associated with the expeditions that integrates sculpture, data visualization and environmental mapping. It is my intention is to examine the changing conception of landscape as mediated by information technology. The Analogous Landscape project presents an experience of land as defined by human interaction with databases, networks and interfaces. This is a work in progress.

The Analogous Landscape project will be realized as an extended performance/installation of exhibitions realized over the next five years. The dramatic challenge of the climbing ten high altitude volcanic mountains is intended as a test of skill, determination and team cooperation. Although the selected volcances share many topographical characteristics they differ significantly in the specificities of their actual terrain, longitude and latitude and weather considerations, all factors that influence the strategy and resources for each expedition. The first two volcances in the expedition series are Mt. Shasta located in the Cascade Range of California and Mt. Fuji, the tallest mountain in Japan. Expeditions to these have been completed.

The conceptual objective involves not only the performative nature of the expeditions but also development of software that can inference by analogy best path scenarios. This will be accomplished through an analysis of GPS and Digital Elevation Mapping data. As *The Analogous Landscape* project evolves, an increasingly accurate prediction process will be used to mediate path navigation enacted by the expedition team. I will lead both the expedition/research team and the software development team.

The media installation series will include database sculptures produced directly from Digital Elevation Models using a CNC fabrication system. These forms will be presented along with video projection of the real time data processing of the inference algorithm represented in three dimensions. The installation also will feature the expedition equipment, personal resources (packs, clothing, food), and the PDA's and GPS units from each team member. A network art component will be realized as a rich media platform for the presentation of all expedition documentation.

In a world in which exploration of geographies have limits; traversing the land under computer instruction opens up new possibilities. *The Analogous Landscape* project embraces a potentiality of new media to re-inform our sense of presence and perception of the land.



New Media Fellowships 2005 Sample Work Form

Check One:	<u>X</u>	Sample Work
		Supplemental

YOUR NAME HERE

Joel Slayton

If you are sending more than one sample, please copy this page. Sample(s) must be cued: indicate how long each sample should be viewed for a COMBINED viewing time of no more than 10 minutes. If slides are included in this application, please list the title and year of the work on this form.

Title C5		
Year 1999-2004		
Fechnical Information navigation and social netwo	•	pping exploring issues of
Original Format Software Web Installation Other	Format Submitted for Viewing Software Web VHS Other PowerPoint	Preferred OS Windows _X Mac Unix Other
·	er only if sample work is in Web format) (if more	than one please list them below
Browser requirement(s) _		
Plug-in requirement(s)		
_ This sample requires bro	adband connection (fast Internet connecti	on)
_ A local copy of the sample	e work has been included with the applica	ation
PowerPoint Presentation: C3 presented in sequence of applion of application of application and the Power of t	or Viewing: Three separate work samp 5, Lost Chihuahua and Panamint Launch at proximately 3 slides per project. A separate Point Icon on the CD labeled Work Sample 1. Advance through slides using the arrow 1.	t Lucky Jim Wash. They are te Sample Work Form is submitte es. Click on the slide show icon in

In 1996 I created a long-term artwork called the C5 Corporation. It has been the centerpiece of my artistic practice. C5 is an experiment in collaboration systems design. The intention of this endeavor was to

(use an additional sheet if necessary)

Description of Work

enable a new form of authorial identity to not only challenge traditional conceptions of arts function but to also enable a form of cultural production informed by the blurred boundaries of art, research and business practice. C5 makes no distinction between the research ambitions of business or art. C5 is not ironic. It is not a commentary or political action. It is simply the necessary means to an end. For C5 theory is product.

Presented here are 3 examples in the lineage of C5 production. Each is built upon the technical and conceptual platform of its predecessor.

Slide 1: Radio controlled Surveillance Probes. A project using algorithmic surveillance strategies to map public spaces.

Slide 2: 16 Sessions. An exploration of the relationship of virtual and physical space. Use of physical motion tracking to create visual maps that are used as paths through the virtual space of the internet.

Slide 3: SoftSub. A data mining screen saver that depicts the organizational style of a client computer. A web site component enables comparative analysis between users.

New Media Fellowships 2005 Sample Work Form

Check One:	<u>X</u>	Sample Work
		_Supplemental

YOUR NAME HERE

Joel Slayton

If you are sending more than one sample, please copy this page. Sample(s) must be cued: indicate how long each sample should be viewed for a COMBINED viewing time of no more than 10 minutes. If slides are included in this application, please list the title and year of the work on this form.

Title Lo	ost Chihuahua	
Year 20	003	
Technical Information	New media performance/public	art and site installation.
Original Format Software Web Installation Other	Format Submitted for Viewing Software Web VHS Other PowerPoint	Preferred OS Windows _X Mac Unix Other
Web Information (ans	wer only if sample work is in Web format)	
URL	(if more	than one please list them below)
Plug-in requirement(s) _ This sample requires br	roadband connection (fast Internet connection)	on)
PowerPoint Presentation: Operated in sequence of appresented in Sequence of approximately for each. Click on the Power	For Viewing: Three separate work samp C5, Lost Chihuahua and Panamint Launch at pproximately 3 slides per project. A separate erPoint Icon on the CD labeled Work Sample www. Advance through slides using the arrow I	Lucky Jim Wash. They are the Sample Work Form is submitted as. Click on the slide show icon in
Description of Work	(use an additional sheet if nec	essary)

In 2003 a created a rock band called, Lost Chihuahua with the sole purpose of playing one major concert. Non of the members was a musician and nearly all played no instruments. I negotiated with the Las Vegas Motor Speedway, the larges NASCAR track in the Western United States, to permit Lost Chihuahua to

peform during the filming of a made for television pilot called the Wedding Game which featured unusual weddings. The concert took place during the Richard Petty Driving School Time Trials.

Slide 1: Lost Chihuahua at the Las Vegas Motor Speedway

Slide 2: Lost Chihuahua Logo and Performance Staging

Slide 3: Lost Chihuahua performs Graham Parsons' Oh-Las Vegas 5 minute video. Click on

image to start or stop, arrow key to advance to next frame.

New Media	Fellowships
2005 Sample	Work Form

Check One:	<u>X</u>	Sample Work
		Supplemental

YOUR NAME HERE

Joel Slayton

If you are sending more than one sample, please copy this page. Sample(s) must be cued: indicate how long each sample should be viewed for a COMBINED viewing time of no more than 10 minutes. If slides are included in this application, please list the title and year of the work on this form.

Title	Panamint La	aunch at Lucky Jim Wash	
Year	2002		
Technical Inf	formation	Crazy Rocketry	
Original Form Software Web Installation Other Web Informati		Format Submitted for Viewing Software Web VHS Other PowerPoint r only if sample work is in Web format)	Preferred OS Windows _X_ Mac Unix Other
URL		(if more	than one please list them below)
Plug-in requ	uirement(s)	dband connection (fast Internet connecti	
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PowerPoint Prepresented in se for each. Click	esentation: <i>C5,</i> equence of app on the PowerF	or Viewing: Three separate work samp Lost Chihuahua and Panamint Launch at roximately 3 slides per project. A separat Point Icon on the CD labeled Work Sample Advance through slides using the arrow I	Lucky Jim Wash. They are the Sample Work Form is submitted as. Click on the slide show icon in
Description	of Work	(use an additional sheet if nec	essary)

In 2003 I organize a group of artists to conduct a social insertion site work on the border of the U.S. China Naval Weapons Research Station in southern California near Death Valley. A team of artists under my coordination launched a series of custom designed rocket experiments into the military airspace. The combination of desert, explosions, alcohol, cameras and out of control rocketry experiments resulted in a

high stakes game of performance art as confrontation. Each rocket launch was pre-planned, tested and documented.

Slide 1: Panamint Launch at Lucky Jim Wash. Joel Slayton Artist with Maypole experiment. 4

rockets are simultaneously launched while tethered by thin wire cable to a 30ft high pole.

Slide 2: Trajectory Test in to China Lad Naval Weapons Station.

Slide 3: Misc. Images: Rocket Bar, Swarming Bifurcation Mass launch of Kotex rockets, high

altitude Black Beauties, and myself and daughter getting ready to shot rockets out of the

sky with a 12 gauge pump shotgun.

New Media Fellowships 2005 Sample Work Form

Check One:	_	Sample Work
	<u>X</u> _	Supplemental

YOUR NAME HERE

Joel Slayton

If you are sending more than one sample, please copy this page. Sample(s) must be cued: indicate how long each sample should be viewed for a COMBINED viewing time of no more than 10 minutes. If slides are included in this application, please list the title and year of the work on this form.

Title Analogous Lands	scapes	
Year 2003-4		
Technical Information Gl Installation	PS/3D Mapping, CNC Sculptural Forn	ns, Video Projecton, Media
Original Format Software Web Installation Other Web Information (answe	Format Submitted for Viewing Software Web VHS Other PowerPoint r only if sample work is in Web format)	Preferred OS Windows _X_ Mac Unix Other
, LIDI	·	than one please list them below)
Browser requirement(s)		
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A local copy of the sample	work has been included with the applica	tion
PowerPoint presentation. Clid	or Viewing: This is a single work sample or the PowerPoint Icon on the CD label left of the window. Advance through slide:	led Work_Samples. Click on the
Description of Work	(use an additional sheet if necessity	essary)

The Analogous Landscape project merges adventure sports, art, and information technology. The centerpiece of the project is the climbing of ten high altitude volcanoes around the Pacific Rim-Ring of Fire. An evolving media installation associated with the expedition integrates sculpture, data visualization, video projection and environmental mapping.

The work samples presented here demonstrate significant progress on the proposed project submitted for the New Media Fellowships.

Slide 1: -The Analogous Landscape Project

-Illustration: Data topography Mt. Shasta California.

Slide 2: -Pacific Rim of Fire

Slide 3: -Expedition Team Geo-Cached Field Mediation

Slide 4: -Computer Mediated Software

Slide 5: -Digital Elevation Mapping of Terrain and GPS Modeling

Slide 6: -GPS Path and 3D Modeling

Slide 7: -Computer Mediated Expeditions

Slide 8: -Mt. Shasta Expedition

Slide 9: -Refined Models for Computer Fabrication of Database Sculpture

Slide 10: -Installation Configuration

Artist Statement

Joel Slayton

I am an artist, writer and researcher. My career began in the mid 1970's as a fine art post-graduate at the MIT Visible Language Workshop (VLW). The VLW was one of seven divisions that would in the early 80's evolve into the prestigious Media Lab. My experience at MIT was very rich in terms of the opportunity to engage with leading thinkers and practioners in engineering and science. It also afforded an opportunity to work directly with hybrid artists from diverse backgrounds who shared an interest in computing technology. My tenure at MIT also coincided with that unique moment in the history of computing when experimental investigations ushered forth a new generation of visualization tools and interactive processes.

On a personal level, it was a formative time aesthetically, technically and conceptually. What I consider to be the foundations of art practice involving information theory, artificial intelligence and networks were incubated. In retrospect, I find it not coincidental that the emergence of my orientation to art practice ran parallel with new formulations spawned by post-modern theoretical frameworks. It was a condition that I now appreciate in more full detail. Indeed, I was a lucky young man whose practice and philosophy would be shaped by such a significant time and environment that emerged a generation of innovation and creativity involving computing and art.

In the present, I see myself as an artist who works with collaboration systems, social networks and cooperative models. I have made a very distinct attempt to break down the Renaissance ideal of the heroic lone artist. In my world to be an artist requires working intentionally with people normally outside the art world, such as scientists, business owners, sports enthusiast, bureaucrats, venture capitalist, politicians and the public. My work has focused on producing art as an engagement with collaborative systems of cultural production. Informed by research and theoretical investigations regarding the nature of social software, my artistic production centers on issues of emerging knowledge from what I call 'big data'. That is, data that has a threshold of complexity so as to be very difficult to fully appreciate or understand, such as that found in extremely large databases. In such systems we can look for social manifestations of data in the form of interfaces, software, databases and networks. These are the media of my artistic practice. I am also very concerned with the relationship of virtual to real experience.

I believe that our conception of software is ever changing. Our expectations continue to shift as new mechanisms of human to machine interaction and machine-to-machine interaction are devised. New hybrid forms of software are just now beginning to emerge that rely on distributed functionality and cooperative systems design. Such ambition for information technology sets squarely within a discourse

Project Narrative: The Analogous Landscape

Joel Slayton

Description

In 2002, I initiated *The Analogous Landscape* project to investigate how information technology influences our understanding and experience of the land. *The Analogous Landscape* examines the changing conception of landscape as defined by an aesthetics of representation to one informed by database, networks and interface.

Defining the nature of resemblance between things that are otherwise unlike is the conceptual focus of *The Analogous Landscape*. Following in the tradition of monumental works by environmental artists Robert Smithson, Michael Heizer and Richard Long, and informed by research orientation of the Helen Meyer Harrison and Newton Harrison, *The Analogous Landscape* is an ambitious interaction and engagement with the landscape.

Beginning with a training expedition of Mt. Whitney in California (the highest peak in the continental United States) I have began the preparation for defining a process to climb ten of high altitude volcances around the Pacific Rim's-Ring of Fire. The project will result in a series of evolving installations. A network art component will be realized as a rich media platform for the presentation of all expedition documentation *The Analogous Landscape* project will be realized over the next five years. A pre-view installation of *The Analogous Landscape* project was featured at the Museo National de Belle Arte at the II International Art Biennial Buenos Aires in November of 2002. The first exhibition in the series will open at San Francisco Camerawork in May of 2005. An exhibition is scheduled for ISEA2006 Symposium (International Symposium of Electronic Art) in San Jose California. I am currently exploring other venues in Japan, Singapore, Indonesia, the Philippines, New Zealand and NYC.

At the heart of *The Analogous Landscape* project is the development of an inference technique that can be used for navigation of terrains of similar characteristic. At question is whether a computational process can be determined that will guide navigation based on previous experience in an environment of similar, but different, characteristic. Inference procedures are a common form of knowledge engineering and data mining that often use the concept of analogy for emerging useful information from complex forms of data. For *The Analogous Landscape* the issue is whether an expedition scenario can be transposed by analogy from one location to an *Other* based on analysis of path data?

Although the selected volcanoes share many topographical characteristics they differ significantly in the specificities of their actual terrain, longitude and latitude and weather considerations, all factors that influence the strategy and resources for each expedition. To better understand the relationship of path and navigation, I

propose to gather GPS data from each climb and to analyze it within an accurate three dimensional model of the landscape in order to characterize the factors that define path structure and human performance. The idea is to emerge increasingly accurate predictive software that can be used to mediate the actual expeditions. The software will be improved with the successive climbs as the expedition/research team that I will lead enacts it.

Landscape as Performance

The expedition/research team will draw on members from a collaborative arts group called C5 that specializes in information visualization, of which I am founder. My role will be to direct and lead the team in all facets of operations including appropriate technical training for high altitude data collection and documentation. As director of the expeditions I am responsibility for the safety of all participants. Altitude range is between 12,000 and 16,000 feet. Some volcanoes are active and the terrain itself presents a serious danger. The adventure sport factor of the expeditions is very much an element in the performance orientation of the artwork.

The Analogous Landscapes expedition team will collect GPS path data that will be computer modeled and integrated with a detailed topographic 3D database of each volcano. This database will be created from satellite and space shuttle Digital Elevation Mapping (DEM). GPS track logs can then be visualized within an accurate computer model of the landscape. A database of photographic, video, sound and text files from the ten expeditions will be attached to this database to enable an interactive media player platform for the Web.

Installation Description

The initial installation that will premier at San Francisco Camerawork in May 2005 will feature two CNC computer fabricated sculptural forms representing the first two volcances in the series; Mt Shasta, a 14,162 ft. mountain in the Cascade Range of North America and Mt Fuji, the tallest mountain in Japan at 12395 ft. The sculptures will be produced directly from the DEM/GPS database. I consider these to be database sculptures that depict the actualities of terrain accurate to 10 meters. The sculptures will be produced in Aluminum at approximately 3x'3'x1'. A computer generated LCD projection (ceiling mounted) of the algorithmic processing of GPS and topographic data is displayed on wall at a distance to the sculptures. Immediately adjacent to this display are the expedition team members PDA's (6-8) encased within an acrylic case. Each PDA cycles through a set of drawings and text messages composed by the team member while on the expedition. A stylized presentation of climbing gear, packs, boots, food supplies and safety equipment is arranged on the floor as a system of resources. Additional sculptural models will be added with each successive expedition in the forthcoming exhibitions. The computer-fabricated models, PDA display and projection video is separated to form an isolated experience for the viewer. The entire area of the installation is approximately 1200-1500 sq. ft.

Entrance to the installation will include a projected video display of the network art media player interface.

Here the audience can explore the rich media documentation from the expeditions through an interface that

uses GPS track logs to signify time and location in order to retrieve and view photographs, video, sound and text resources.

Installation aesthetics are simple and highly formal. The space is conceptualized as an opportunity for the audiences to both contemplate the details of the mapping and processing and to view the entire structure as an elaborate land art enterprise. It is therefore necessary to make it accessible at both a viewing distance where the entirety of the project can be understood and close up in order to appreciate the individual models, information displayed on the PDA's and the items comprising the expedition resources.

Feasibility

I am confident in my organizational skills to design and implement installation/performance works of large scale and to manage the necessary collaborators, resources and budgets. My past work has often focused on designing systems as artworks that have involved complex media resources and were informed by contemporary information science issues and methods. I often work with other individuals to orchestrate their involvement and contribution. In fact it would be impossible to achieve the works in any other way.

Summary

The shifting tectonic plates of the Pacific Rim-Ring of Fire contain regions of complex cultural identities shaped by imperialism, globalization and post-modernization. Each of the ten volcanoes included in *The Analogous Landscapes* project is associated with unique culture whose forms of ritual, exploration, mapping and navigational representations are unique. *The Analogous Landscape* project is committed to exploring an alternative to those descriptions. My objective is to address the land as expeditionary experience influenced by information mediation. I continue to ask myself how does one experience the landscape as a factor of database logic?

Budget

Analogous Landscapes Joel Slayton

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$\Lambda \alpha \alpha$	110	1101	70 th 10	/ 'AAta
ALD I	111	11511	allve	Costs

	Telephone		300
	Mail and Shipping		200
Travel		8 trips at 900	7,200
Accon	nmodations	8 trips @400	3,200
:			
Exped	ition Resources		3,900
	Food	800	
	Gear	1000	
	Rentals	500	
	Guides	1600	
	Fees		
GPS	Replacements	2 at 380	760
CNC F	-abrication	10 @ \$1250	12,500
Metal	Foundry	10 @ \$250	2,500
Displa	y Cases	10 @ \$120	1,200
LCD V	ídeo Projector		3,240
Total			35,000

Ioel Slayton

ACADEMIC

Professor of Art, Digital Media Art, School of Art and Design,

San Jose State University. 1985-Present

Director, CADRE Laboratory for New Media, School of Art and Design,

San Jose State University. 1988-Present

Visiting Assistant Professor, Center for Information and Communication

Studies, California State University, Chico. 1984-85

Coordinator, Visible Language Workshop, School of

Architecture, Massachusetts Institute of Technology. 1977-82

EDUCATION

Post Graduate, MIT VLW, Cambridge, 1976-1977

MA Photography and Cinema, Ohio State University 1976 BA Photography and Cinema, Ohio State University 1974

CURRENT **PROFESSIONAL** Chair, International Symposium of Electronic Arts 2006 + Pacific Rim New Media Summit

Board of Governors, Leonardo/International Society of Electronic Arts

Chair and Editor, Leonardo MIT Press Book Series

Board of Directors, ZeroOne, Art and Technology Network Executive Editor, SWITCH, On-Line Journal of New Media Discourse

Airport Master Plan Steering Committee, Office of Cultural Affairs San Jose, CA Nominated 2003 World Technology Awards, World Technology Network

RESEARCH **ART FOCUS** Social Software, Networks and Information Visualization Collaborative Systems, Site Works, Public Art, Performance

C5 CORPORATION www.c5corp.com

President and Founder, C5 Corporation

Established in 1998.

C5 Corporation explores the hybrid boundaries of art, business and research. It is the primary

focus of my artistic, scholarly and creative activity.

C5 EXHIBITIONS

The Landscape initiatives, San Francisco Camerawork, May 2005

2004 Landscape Initiatives, International Symposium on Interactive Media Design, Istanbul, Turkey

2003

2002

1:1, Whitney Biennale, Whitney Museum of American Art, New York City

SoftSub, Refresh: Art of the Screen Saver, Tate Museum, London.

2001

SoftSub, BorderHack Festival, Tijuana, Mexico.

YouDdon't See That You Don't See, Digital Secrets Symposium, Arizona State University

1:1, The New Museum, Altoids, NYC

SoftSub, Refresh: Art of the Screen Saver, Cantor Center for Visual Arts, Stanford Univ.

SoftSub, Arts Entertainment Network, Walker Art Center, Minneapolis, MN

SoftSub, Ars Electronica, Linz Austria

1:1, New Langton Arts, San Francisco, CA

1998

16 Sessions, Shock of the View, Walker Art Center, Minneapolis, MN

RCSP Project, ACM Siggraph, Orlando Florida
Field Mediation on Mingling Theory, The Tech Museum, of Innovation Gala, San Jose CA

Field Mediation on Data, San Jose Museum of Art, San Jose CA

EXHIBITIONS PERFORMANCE INSTALLATION 2004

Lost Chihuahua: CD release

SetexNfavoritos, Network Exhibition of Favorite Sites, San Paulo, Brazil

2003

Lost Chihuahua: Lost Chihuahua at the Las Vegeas Motor Speedway

The Analogous Landscape, Museo de BelleArtes, II International Bienale Buenos-Aires

2002

The Wedding Game, Las Vegas Motor Speedway, Las Vegas Nevada Profiling the Presidents, Auckland University of Technology, Auckland New Zealand

2001

Cogitate, site specific performance, Cunningham Communications, Palo Alto, CA The Chemistry of FEAR, Ford Ord Military Chapel, Monterey, CA

2000

High Touch/High Tech, Kala Institute, Berkeley CA
Profiling the Presidents, Novell Silicon Valley Conference Center, San Jose, CA

1999

Alternating Currents: American Art in the Age of Technology, San Jose Museum of Art in collaboration with the Whitney Museum of American Art, San Jose CA

1998

Alternating Currents: American Art in the Age of Technology, San Jose Museum of Art in collaboration with the Whitney Museum of American Art, San Jose CA

1997

Telepresent Surveillance, http://surveil. sjsu.edu

CADRESV1, A Prototype Satellite Design, http://cadre.sjsu.edu/CADRESV1

Landscape Painting As Counter-Surveillance of Area51, http://cadre.sjsu.edu/area210

Telepresent Surveillance, International Symposium on Electronic Arts, School of the Art Institute of Chicago, Chicago II.

1996

Telepresent Surveillance, Art as Signal, Inside the Loop., The Krannert Museum of Art, IL Pixel Perfect, San Jose Museum of Art, San Jose CA Elastic Visions, March Hicks Art Center, Bucks Community College, Newtown PA Elastic Visions, The Art Center, Portsmouth, VA dotCom Gallery, Connections: An on-line exhibition of digital artists, NY NY

1995

Pullit: An Audience Interactive Browser for the Internet, Digit ATM High Bandwidth Concert, Digital Media Institute, San Jose State University/CSU Monterey Elastic Visions, Erie Art Museum, Erie PA Elastic Visions, Catherine Smith Gallery, Appalachian State University, Boone, NC California Arts Council Digital Artists, Holmes Fine Art Gallery, San Jose CA.

1994

CONDUITS, A site specific media performance work, The city of Palo Alto Centennial -Celebration, Palo Alto, California Elastic Visions,, Zoller Gallery, School of Visual Arts, Penn State, University Park, PA Elastic Visions,, Erie Art Museum, Erie, PA Instant Memories: Artist Polaroid's, Redding Art Museum, Redding, California

1993

The Third Annual Santa Fe Computer Graphics Art Show, Hand Gallery, Sante Fe, NM Computer Artists, Mission College, San Jose, California

1992

DoWhatDo, A site specific multimedia performance work, San Jose Institute of Contemporary Art and the City of San Jose, San Jose, California

Computer Art From the Western States,, Brigham City Museum-Gallery, Brigham City, Utah Truth or Dare, Images Center for Photography, Cincinnati, Ohio

1991

Invisible Site, George Coates Performance Works, Visual Coordinator, ACM Siggraph Electronic Theater, University of Nevada Las Vegas

The Computer Art Show, New Mexico State University Art Gallery, Las Cruces, New Mexico Infinite Illusions The Smithsonian Institute, Washington D.C.

Virtual Memories, Ansel Adams Center, Friends of Photography, San Francisco, California

1990

98.6 FM, A collaboration with the Tandy Beal Dance Company, Mayer Theater,

Santa Clara University, Santa Clara, California The Architecture of Catastrophic Change, George Coates Performance Works, Visual Coordinator, San Francisco, CA Flux 90,, Muskengon Museum of Art, Muskengon, Michigan
Electronic Expressions, Allegheny College Art Gallery, Allegheny, Pennsylvania
Structured Influences,, Craft Alliance, Saint Louis, Missouri Border Axes: San Jose Connection, San Jose Institute of Contemporary Art, San Jose, California Xherone 1.3, Triton Museum of Art, Santa Clara, California

1989

Electronic Print, Aronfilini Gallery, Bristol, England
Digitized Images, Orange Coast College Art Gallery, Los Angeles, California
Distinguished Artists Forum, San Francisco State University, San Francisco, California HAND, Center for Art, Media and Technology, Utrecht Academy for the Arts, Holland

1988

Detour, California State University Summer Arts, Cal Poly, San Louis Obisbo, California Digital Portraits, Frieghtdoor Gallery, Santa Clara University, Santa Clara, California Human Animal Relationships, Gorman Museum, University of California Davis, California

Detour, San Jose Museum of Art, San Jose, California, 1988 Art in the Computer Age, Everson Museum of Art, Brooklyn, New York traveling Itinerary: IBM Gallery of Science and Art, New York, New York Cincinnati Contemporary Arts Center, Cincinnati, Ohio The Dayton Art Institute, Dayton, Ohio

Is there Art, US Sprint Teleconferencing Center, Slayton, Truckenbrod, Klinkowstein, Simulations/Dissimulations, School of the Art Institute of Chicago, Chicago, Illinois Artist in the Computer Age, MIT Technology Museum, Cambridge, Massachusetts Computer Artists in Germany, Galerie Der Kuenstler, Munich, Germany ACM Sigrraph Traveling Exhibition, CSU Los Angeles Fine Arts Gallery, California

Musik und Film, Theaterahaus Stuttgart, Stuttgart, Germany
Electronic and Other Real Musics, American Music Week, San Jose State University, California Xherone, Durban International Film Festival, Durban, South Africa Siggraph Art Exhibition, San Francisco Moscone Center, San Francisco, California Artist in the Computer Age, Owens-Illinois Art Center, Toledo, Ohio Selected Videos, Margaret Fort Trahern Gallery, Austin Peay State University, Memphis, TN New Portraiture, San Jose Institute of Contemporary Art, San Jose, California

1985

Siggraph Art Exhibition, Dallas Convention Center, Dallas, Texas Artists and the Computer II, Louisville Art Gallery, Louisville, Kentucky traveling itinerary:

North Carolina A and T State University, Greensboro, North Carolina Milledgeville Allied Arts, Milledgeville, Georgia Children's Museum, OakRidge, Tennessee Chattahoochee Valley Art Association, La Grange, Georgia

Creative Arts Guild, Dalton, Georgia
Stillman College, Tuscaloosa, Alabama
Augusta College, Augusta, Georgia
Georgia State University Art Gallery, Altanta, Georgia Western KY University, Bowling Green, Kentucky

Masur Museum, Monroe, Louisiana Singing Pines Museum Boca Raton, Florida

Selected Works, Computer Arts Institute, San Rafael, California Alternative Process and Contemporary Issue Photography, 3rd Floor Gallery, Oakland, CA Light Masters, Somar Gallery San Francisco, San Francisco, California

Artists and Computers: A New Collaboration, San Francisco State University, California Maestros de la Luz, Galeria Magali, Mexico City, Mexico traveling itinerary:

Mexico Universidad Iberoamerican, Mexico City, Mexico
Centro de Investigacion Y Docencia Econmicas, Mexico City, Mexico
Galeria do Arte, Universidad Autonoma Metropolica, Izxtapalapa, Mexico

CADRE 84, San Jose Institute of Contemporary Art, San Jose, California Art and Technology, Northern Arizona University Art Gallery, Flagstaff, Arizona

1983

New Works, Go Gallery, University of California Los Angeles, Los Angeles, California Artists from the VLW, Gallery of the Fantistik, New York, New York

Northern California Photographic Exhibition, Monterey Peninsula Museum of Art, California

Siggraph Art Exhibition, Boston, Massachusetts The Computer Image, Kennedy Gallery of the Polaroid Corporation, Cambridge, MA Mid-south Small Press Design Exhibition, Margaret Fort Trahern Gallery, Austin Peay State University, Memphis, Tennessee

DATA Network, Kracker and Slayton, Sky Art Conference, MIT, Cambridge, Massachusetts

Computer Art Exhibition, Leigh University Art Gallery, Maryland High Art Technology, Electro Arts Gallery, San Francisco, California traveling itinerary:
Siggraph Art Exhibition, Dallas, Texas

Library of congress, Washington D.C.
Toronto Computer Culture, Toronto, Canada

Computer Art, Institute of New Technical Forms, Darmstadt Germany

Re: Pages, Artists Books, Rhode Island School of Design, Hera Art Gallery, Providence, RI

traveling itinerary: Bradford College Art Gallery, Wakefield, Rhode Island

Bridgeport Museum, Bridgeport, Connecticut Smith College, Boston, Massachusetts University of Massachusetts, Amherst, Massachusetts

Hampshire College, Amherst, Massachusetts
Franklin county Art Council, Greenfield Massachusetts
Southeastern Massachusetts University, N. Darmouth, Massachusetts
Berkshire Museum, Pittsfield, Massachusetts Art Center at Hargate, Concord, New Hampshire University of Southern Maine, Gorham, Maine

US Eye, Winter Olympic Games, Visual Studies Workshop, Rochester New York

traveling itinerary:

Harnett Gallery, University of Rochester, Rochester, New York Erie Public Museum, Erie, Pennsylvania

SUNY at Albany, New York

Myers Fine Art Gallery, SUNY at Plattsburg, New York

PUBLISHED PAPERS

Collaboration Models, Leonardo ISAST Journal, San Francisco 2003

Social Software, Transmediale, Berlin 2001 Social Software, Noema-Tecnologie & Societa, Bolonga Italy 2001

Social Software, Rhizome, New York City 2001

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The Ontology of Organization as System, File 2000, San Paulo, Brazil 2000

The Ontology of Organization as System, Visual 2000 Conference, Mexico City 1999

Re=purpose of Information: Networks as Art, International Symposium on Electronic Arts 1998

Experimental Public Performance and Interactive Installation, The Sixth International

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Design Considerations for Interactive Multi-Media, Gano, Becker, Slayton, National Computer

Graphics Association Proceedings 1989

Towards a New Media Technology, Technological Horizons in Education 1988
Experimental Computer Media, National Computer Graphics Association Proceedings 1988
Making Art On and With Computers, National Computer Graphics Association Proceedings 1987

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EDITORIAL LEONARDO BOOK SERIES **MIT PRESS**

The Language of New Media, Lev Manovich 2000

Metal and Flesh, Technology Takes Over, Olliver Dyens 2001 Information Arts: Art, Science, Technology and Theory, Steve Wilson 2001 History of Virtual Art and it's Future, Oliver Grau 2002 Windows and Mirrors, Diane Gromola and Jay Bolter Women in Art and Technology, Judy Malloy 2002
Protocal:When Technology Takes Over, Alex Galloway 2003
Beyond Biology, Eduardo Kac
New Media Artists, Frank Popper 2003
At a Distance, Norie Neumark 2004
Digital Performance

Digital Performance, Steve Dixon and Barry Smith 2005 Between Worlds, SETI, Douglas Vackoch 2005 CODE, Michael Century 2005

The Global Genome, Eugene Thacker 2005 Media Ecologies, Mathew Fuller 2006

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SWITCH switch.sjsu.edu

Interface: Software as Cultural Production Collaboration Social Networks **Database** Games Virtual Reality Artificial Life Sound Interactive Narrative Art of the World Wide Web Art and the Military Electronic Gender Network/Art The Interview Issue **Games Database** Institutions Social Networks I Social Networks II Collaboration Interface

PUBLISHED ART CATALOGS

Whitney Biennale, Whitney Museum of American Art 2002 The Age of Dataveillance, Steve Deitz, Camera Work: Journal of Photographic Arts, 1999 ACM Siggraph, Art Exhibition, Orlando, FL 1998 Envisioning Cyberspace: Peter Anders, Abrams, 1998

Dreamland, Phil Patton, Vantage, 1998

Xerox Parc Pair Program, Craig Harris: MIT Press/Leonardo Magazine, 1998

Telepresence and Robotics, Eduardo Kac, The Art Journal, 1998 Art as Signal: Inside the Loop, Krannert Museum of Art, University of Champaign, IL 1996 Telepresent Surveillance, Guy Marsden, Sculpture Magazine, 1996 Elastic Visions, Zoller Gallery School of Visual Arts, Penn. State University, PA 1994 Interactive Art, Educom Review, 1994 DoWhatDo, Leonardo Currents, 1994 LEA, Massachusetts Institute of Technology Press, 1993 VR Anthology, Carnegie Mellon University Press, 1993 VR Anthology, Carnegie Mellon University Press, 1993
Leonardo Fine Art, Science and Technology (FAST) Resource, MIT Press, 1993
CyberArts International, Technologies, Tomorrows Art, Los Angeles, CA 1992
DoWhatDo, Site Specific Multimedia Performance, San Jose CA 1992
Invisible Site, ACM Siggraph, 1992
Confetti, Randal Publishing Company, 1992
Photographic Possibilities, Focal Press, 1992
Mead Portfolio of Computer Artists, Mead Paper Corporation, 1992
Introduction to Multi-Media Design, Prentice Hall, 1992
SIGGRAPH 91 Electronic Theater, Los Vegas, NV 1991 SIGGRAPH 91 Electronic Theater, Los Vegas, NV 1991 Electronic Expressions, Allegheny College, Bowman, Penelec & Megahan Galleries, PA 1991 Flux 90: New Visions in Computer Art, Muskengon Museum of Art, MI 1990 Photography, Scott Foresman, Little Brown, 1990
Electronic Print, Arnofilini Gallery, Bristol, England 1 1989
Dimensions of Interactivity, CADRE Institute, San Jose, CA 1989
Digitized Images, Orange Coast Community College, Los Angeles, CA 1989 The Ninth Durban International Film Festival, University of Natal, South Africa 1988 Art In the Computer Age, Everson Museum of Art 1987 Artists in the Computer Age, Owns-Illinois Art Center, Toledo OH 1987 Silicon Valley Festival of Electronic Art, San Jose, CA 1987 Discoveries in Literature, Scott Foresman, 1987 Tage Fur Neue Musik, Musik Und Film, TheaterHaus, Stuttgart 1986 Bilder Images Digital, Computer Artists in Germany, Galerie Der Kuenstler, Munich, 1986 The Artist and the Computer, Louisville Art Gallery, KY 1986 Photography and the American Imagination, Harry Abrams Publisher, 1985 CADRE Conference, San Jose, CA1984
Creative Computer Graphics, Cambridge University Press, 1984
Digital Portfolio, Computer Graphics World, Penwell, 1983 Re:Pages, An Exhibition of Hand Made Books, Hera Foundation, RISD, Providence, RI 1982
Copy Art, Lambert Tegengosch, Oce-Nederland 198, Utrecht, Holland 1982
The Computer Image, The Polaroid Corporation, Addison Wesley, 1982
American Institute of Graphic Arts Annua, 1982

One Hundred and Thirty Years of Ohio Photography, Columbus Museum of Art, Columbus, OH 1982

Siggraph Art Show, ACM Siggraph Conference, 1981 Acquaintances, VLW Press, MIT, 1981 Quiver: Notation and Image, Tyler School of Art, Philadelphia, PA 1979

REVIEW BIBLIOGRAPHY

Database of Virtual Art, Humboldt University, Berlin 2003 Crumb, Formal Research, University of Sunderland, England 2003 ArtByte, CADRE Area 51, Tom Vanderbilt, Landscape Painting As Counter Surveillance 1999
ArtByte, C5/Sputnik. Mindtrends 1999
Afterlaage, Vol 27 No 3, Building a Better Hothouse, Simon Niedenthal, Rochester, NY 1999 C5. Interview with Sputnik, Mary McGuiness, NY, NY 1998
C5. Interview with Wired Magazine, San Francisco 1998
C5. Interview with Artbyte, NY, NY 1998 C5, Interview with SJ Mercury News, Chris Nolan, San Jose CA 1998 Interview with 51 Mercury News, Chris Nolari, 5an Jose CA 1996
Interview with Joel Slayton, Studio Notes, Mike Vitale, Benicia, CA 1997
Telepresent Surveillance, Leonardo Electronic Almanac, MIT Press, Cambridge, MA 1997
SJMA Exhibition: Nam June Paik, KQED Public Radio, Peter Jon Schuler, San Francisco, CA 1996 Telepresent Surveillance, Words on Works, Judy Molloy, Tucson, AZ 1995 Elastic Visions, Erie News Supplement, Showcase: Karen Merkle, Erie PA 1995 Conduits, San Jose Mercury News, Danielle Trosussant, San Jose, CA 1994 The Lure of Pixels, Sante Fe Reporter, Diane Armitage, Sante Fe, NM 1993 DoWhatDo, Art Week, San Francisco, CA 1992 DoWhatDo, Macworld, Ann Garrison, San Francisco, CA 1992 DoWhatDo, New Media Age, San Francisco, CA 1992
DoWhatDo, YLEM, Artists Using Science and Technology, Trudy Reagan, Orinda, CA 1992
DoWhatDo, Leonardo Currents, Craig Harris, ISAST, Berkeley, CA 1992 Those Who Can Do What, San Jose Mercury News, Katherine Maclay, San Jose, CA 1992 DoWhat DoWhat, Metro, Ann Elliot Sherman, San Jose, CA 1992 DoWhatDo does Downtown, City Times, Arts, Anne Gelhaus, San Jose, CA 1992 After Hours in San Jose, San Jose Mercury News, Leigh Weimers, San Jose, CA 1992
DoWhatDo: a Techno Drive-In, KQED Public Radio, "Peter Jon Schuller, San Francisco, CA 1992
Techno-Theater, New Media Age, San Francisco, CA 1991
Virtual Memories: New Electronic Photography, Art Week, Jenkins, San Francisco, CA 1991 Virtual Memories: New Electronic Photography, Art Week, Jenkins, San Francisco, CA 1991 Virtual Memories: New Electronic Photography, ReView, Mandell, San Francisco, CA 1991 Computers in the Photography Lab, San Francisco Examiner, Russell Baker, SF, CA 1991 Artists Portrait, Leonardo Magazine, Bill Castell, Berkeley, CA 1991
The Future of Cinema, The Film Journal, 2 part interview, Brill, NY 1990
Xheronel.2, Triton Museum of Art, Santa Clara Tribune, Nash, Santa Clara, CA 1989
Digitized Images, Los Angeles Times, Vickie Krasel, Los Angeles, CA 1989
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Computer Art Special, Channel 54, Malone, San Jose, CA 1989
NCCA Arts Conference, San Jose Mercury News, an Jose CA NCGA Arts Conference, San Jose Mercury News, an Jose, CA Lets Get Digital, AfterImage, Visual Studies Workshop, Rochester, NY1989 Xherone, West German National Television, Stuttgart, Germany 1987 Artful Computing, Science News, Raloff, New York, Washington D.C. 1986 Computer Artists and Research, CBC, Robin Christmas, Toronto, Canada 1984

PRESENTATIONS

ISEA2006 Panel: GPS as Art, Helsinki 2004 San Francisco Art Institute, Art+ Technology Lecture Series 2004 Keynote Address, A Week with the Masters, Toons Animation Division, India 2003 Fellowship, Auckland University of Technology, Auckland New Zealand 2002 Invited Keynote: Interactive Arena Lecture Series, Canadian Film Centre, Toronto, Canada 2002 Panel: *Social Software*, Transmediale, Berlin Germany 2001 Panel: Pedagogy 4.0 is in Beta: Teaching in the New Media Studio College Art Association, Chicago 2001 Panel: Art and the Entrepreneur, GroundZero/The Kitchen, Palo Alto, CA 2000
Panel: New Media Mavericks, High Tech/Hi Touch Symposium, Kala Institute, Berkeley, CA 1999
Lecture: Systems Discourse, San Jose Museum of Art, San Jose, CA 1998
Lecture: Telepresence and Robotics, Ylenisorita, San Francisci Exploratorium 1997 Panel: Art as Signal: Inside the Loop, University of IL. Champaign-Urbana 1995 Lecture: Experimental Performance and Media Installation, ISEA, Montreal, Canada 1995 Visiting Artist: Department of Conceptual Design, San Francisco State University, CA 1995 Artist in Residence: PAIR Program, XeroxParc Research Center, Palo Alto, CA 1994
Visiting Artist:, Mesa College, Phoenix, AZ 1994
Visiting Artist:, Art and Technology Program, School of the Art Institute of Chicago, IL 1993
Panel: Making Megamedia, International CyberArts Conference, Pasadena, CA 1992
Panel: International Interactive Communication Society, Education Special Interest, SF, CA 1992
Visiting Artist, Department of Art and Art History, UCD, Davis, CA 1992
Lecture: The Making of DoWhatDa San Iose Institute of Contemporary Art. San Iose CA 1992 Lecture: The Making of DoWhat Do, San Jose Institute of Contemporary Art, San Jose, CA 1992
Panel: Virtual Reality and the Arts, San Francisco Exploratorium, San Francisco CA 1992
Panel: Artists Experimentation With Interactive Multi-Media, MacWorld, San Francisco, CA 1992 Visiting Artist: University Art Galleries, New Mexico State University, Las Cruces NM 1991 Visiting Artist: California College of Arts and Crafts, Oakland, CA 1991 Visiting Artist: Dept. Conceptual Design, San Francisco State University, San Francisco, CA 1991

Panel: On The Bleeding Edge of Interactive Performance, International CyberArts Conference, Los Angeles, CA 1990 Visiting Artist: Oberlin College, Oberlin, OH 1990 Panel: The Impact of Computers on the Arts, SPE Western Regional Conference, Los Angeles, CA Lecture: Triton Museum of Art, Santa Clara, CA 1989 Panel: The Dimensions of Interactivity, NCGA Annual Conference, Anaheim, CA 1989 Visiting Artist: Mills College, Oakland, CA 1989 Artist in Residence, California State University Bakersfield, CA 1988

Lecture: Interactive Virtual Environments, First International Symposium on Electronic Art, Center for Art, Media And Technology of the Utrecht Academy of Arts, Holland 1988

Panel: Computer Graphics and the Changing Methodology for Artists and Designers, ACM Siggraph Conference on Computer Graphics and Interactive Techniques, GA 1988

Panel: Arts in the Year 2020, San Jose State University, San Jose, CA 1988

Panel: YLEM, San Francisco Exploratorium, San Francisco, CA 1988

Panel: Experimental Computer Media, NCCA Appual Conference, Los Appuals CA 1988 Panel: Experimental Computer Media, NCGA Annual Conference, Los Angeles, CA 1988 Lecture: The Interactive Image, Learning Environments, Appealing to the Senses, Simulations/Dissimulations Conference, Chicago Museum of Science and Industry, IL 1987 Panel: Digital Photography and Interactive Media, Society for Photographic Education, Mid West Regional Conference, Los Angeles, CA 1987 Panel: The Literacy of New Media Technology, Art and Design Conference, School of the Art Institute of Chicago, Chicago, IL 1987
Panel: Computers and Photography, Society for Photographic Education Annual Conference, San Diego, CA 1987 Lecture: The Making of XHERONE, Tage fur Neue Musik: Musik und Film, TheaterHaus Stuttgart, Panel: Computer Arts, Mid America CAA Conference, Memphis State University 1986 Panel: Making Art On and With Computers, NCGA Annual Conference, Los Angeles, CA 1986 Panel: Art and Research, Association for Computer Aided Design and Education Conference, Sheridan College, Toronto, Canada 1986
Visiting Artist: Explorations 2, Austin Peay State University, Memphis, TN 1986
Panel: Digital Art, Ninth Annual Colloquium on Empirical Aesthetics, UCSC, Santa Cruz, CA 1985
Panel: Computers and Art, Santa Rosa Junior College, Santa Rosa, CA 1985
Panel: New Art/New Perception, NCGA Annual Conference, Anaheim, CA 1985
Lecture: Digital Imaging, CADRE Conference, Mission College, San Jose, CA 1985
Lecture: Creatization and the Computer, International Summer Institute on Tele-Communications and Lecture: Creativity and the Computer, International Summer Institute on Tele-Communications and New Information Media, California State University Chico, CA 1984
Panel: Computers and Art, NCGA Annual Conference, Los Angeles, CA 1984
Computer Art Workshop: Visual Studies Workshop, Summer Session, Rochester, NY
Lecture: Computers and Creativity, Northern Arizona State University, Flagstaff AZ 1984 Lecture: Computer Imaging, Western Education and Computing Conference, San Francisco, CA 1983
Lecture: Computers, Color and Form, Harvard University Environmental Design, Cambridge, MA
Lecture: Alternative Imaging, MIT Summer Session, Cambridge, MA 1982
Lecture: Art and Technology, Boston Visual Artists Union, Cambridge, MA 1082

CONSULTANCY RESIDENCY CURATION

Adobe Headquarters Public Art Review Panel, San Jose 2003
Curatorial, Vigil of Planetary NetArt, Chairetmetal.com 2001
California Arts Council Grant Review, Media Arts 2000
Consultant on Curriculum, College of Arts and Sciences, CSUB, 1998
Cultural Equity Grants Organizations Panel, City of San Francisco, 1997
Cultural Equity Grants Media Panel, City of San Francisco, 1996
Consultant, Omron Office Systems Research, Facial Recognition Software 1996
Guest Curator, Art and Technology Exhibition, Holmes Gallery, San Jose 1995
Artist in Residence, PAIR Program, XEROX Parc, Palo Alto, California 1993
Panel Jurist, Art and Technology Artist Grants, Santa Clara Arts Council 1993
Consultant, Computers in the Arts Program, UCSC 1992
Consultant, Computers in the Curriculum, San Jose Unified School District 1992
Board of Directors, Arias Compass Projects, Los Angeles 1990-1992
Consultant, California Alliance for Art Education 1989
Conference Director, The Dimensions of Interactivity, NCGA 1989
Executive Committee, NCGA Arts Section 1988-1989
Artist in Residence, Stellar Computer, Santa Clara, California 1988
Consultant, Computers in the Curricula, NJ Board of Higher Education 1988
Exhibition Jury, SUN Gallery, Hayward California 1988
Computer Graphics Workshop, CSU Professional Development Program 1988
Artist in Residence, NASA Ames Research Center 1987
Program Coordinator, The Computer Image, CSU Summer Arts 1987
Exhibitions Coordinator, Silicon Valley Festival of Electronic Arts 1986
Program Coordinator, International Summer Institute on Telecommunications and New Information Media, California State University, Chico 1984
Program Consultant, CADRE 84 Conference, San Jose State University 1984
Artist in Residence, Grinnell Systems, San Jose, CA 1983
Program Coordinator, Computers and Other Tools, MIT Summer Session 1981
Program Coordinator, Computers and Other Tools, MIT Summer Session 1981

SJSU IRA, CADRE Artist in Residence/Switch Journal 42,500 2002 Silicon Graphics, RE2 donation, \$150,000 2002 Graduate Studies and Research Award, SJSU \$2000 2000 SJSU IRA, CADRE Artist in Residence/Switch Journal \$34,500 2000 SJSU IR CADRE Artist in Residence/Switch Journal \$34,500 1999 SJSU IRA CADRE Artist in Residence Program \$34,000 1998 SJSU IRA CADRE Artist in Residence Program \$34,000 1998
SJSU IRA CADRE Virtual Reality Laboratory \$32,000 1997
SJSU RA, VR/High bandwidth Networking, \$32,000 1996
CSU Lottery Grant, Networked Exhibitions Program, \$32,000 1996
Silicon Graphics Inc., Workstations for VRML development. \$30,000 1996
Alias/Wavefront SGI, Campus Partner Agreement, software licensing, \$1,000,000 1995
SJSU IRA, Virtual Reality Laboratory, \$34,000 1995
CSU Lottery Research Funds, Digital Video, \$1500 1994
Arts Commission, CONDUITS, City of Palo Alto Centennial, \$20,000, 1994
Corporate Sponsorship of CONDUITS: \$300,00 1994
Silicon Graphics Inc. Riverview Systems Group -Silicon Graphics Inc. Riverview Systems Group. -Supermac Technologies Pacific Bell -Xerox Parc Frys Electronics SJSU Instructional Resources Award, SWITCH the on-line Electronic Journal of the CADRE Institute, San Jose State University, \$32,150 1994 SJSU IRA, Virtual Reality Laboratory Project, San Jose State University, \$39,000 1993 California State University Faculty Research Award, Video Disk Production, \$5000 1993 NEA Project Grant: DoWhatDo, A site specific multimedia performance sponsored by the San Jose Institute of Contemporary Art \$15,000 1992 Corporate Sponsorship of DoWhatDo: \$350,000 1992 Software Systems Inc., MultiGen Software Grant for Virtual Reality Research, \$130,000 1992 SJSU IRA CADRE Student Exhibitions Program, \$40,000 1992 Certificate of Appreciation, Smithsonian Institute, Recognition of Exceptional Service 1990 Alias Research, Software Grant for 3D Modeling and Computer Animation, \$480,000 1990 CSU Lottery Grant, Digital Video Editing System, \$48,000 1990
Meritorious Performance and Professional Promise Award, San Jose State University 1989 Chancellors Distinguished Artists Forum, San Francisco State University 1989 Sun Microsystems, Computer Donation, \$120,000 19898
CSU Lottery Grant, Distinguished Visiting Artists and Scholars Lecture Series, \$2000 1988
CSU Lottery Grant, Video Disk Design Workstation, \$30,000 1988 California State University Summer Arts Program, \$20,000 1988 Crystal Graphics, Software Grant for Computer Animation, \$25,000 1987 CSU Lottery Grant, Distinguished Visiting Artists and Scholars Lecture Series, \$7,000 1987 Meritorious Performance and Professional Promise Award, San Jose State University, \$2000 1986 San Jose Fine Arts Commission, CADRE Performance Series, \$5000 1986 Dean's Faculty Recognition Award, California State University Chico Commodore Computer Ltd., Equipment Grant, \$5000 1983 American Institute of Graphic Arts: Design Leadership Award to VLW/MIT 1982 The Polaroid Corporation, Digital Portfolio Commission 1981

CURRICULUM

Graduate Coordinator MFA Program in Digital Media Arts

Graduate Seminar in Digital Media Art Undergraduate Seminar in Digital Media Art Art as System The Human Machine Interface Introduction to Digital Media Advanced Projects in Digital Media Art