March 13 Ylem Forum
A Practice in Geosomatics
Tuesday, March 13, 8 pm, McBean Theatre, The Exploratorium, 3601 Lyon St., San Francisco
Admission (non-members) $3

Geosomatics®: An approach toward studying both the earth and our physical bodies in concert. A metaphoric play between myth, nature, self, form and pattern. (Geos: earth; soma: body)

Two areas of science that are currently studied as discrete systems are shifting dramatically toward an integrated view: earth systems and the physiology of the human body. This has inspired a practice of studying the two vast fields each within the context of the other. What are the systems we share, in our bodies, with the earth systems? How are we integrated within the cycles, processes and functions that are in perpetual motion within the atmospheric, geologic and oceanic systems of the earth?

David Hoffman, California School of Herbal Studies, Forestville, CA
A sensitivity to life forms emerges from Hoffman's work, as he shows slides of plants and discusses their properties and the spiritual, nutritive, and medicinal connection between plants and animals.

Susan Schreiber, medical technologist. Schreiber shows how the use of vascular ultrasound and Doppler can diagnose the cause of strokes in the carotid arteries bringing blood to the brain. Comparisons between blood flow and of water in rivers will also be made, based on fluid dynamics studies at NASA.

"The Crest of the East Pacific Rise" by poet Betty Roszak. Roszak finds drama in geologic processes and eloquence in the terms that describe them. Her psalm-like poem will be read by three voices to music.

Cellular Automata developed by Rudy Rucker, professor of mathematics, SJU.
Elaborating on the early computer diversion called the "Game of Life", the computer chip designed by Rucker generates the random motion of pixel automata. These "grow" detailed, colorful patterns across the computer screen in real time. Equipment courtesy of Systems Concepts, San Francisco.

Maps and geo-art by artist Trudy Myrrh Reagan.
At intermission Myrrh will demonstrate geomorphology with play dough.

Bring copies of pictures or articles to share and to leave in what can become a collection of geosomatic ideas. Bring your questions, and challenge the speakers.

Program concept by Robin Samelson, instructional designer. You may call her to discuss the topic and get information: (415) 321-4950.

Geosomatics is a Gaia project. 1990.

Upcoming Ylem Events
Mar. 13, 8 pm — Forum, "Geosomatics"
Apr. 8, 3-5 pm — Visit to studio of Marjorie Franklin
Apr. 19, 8 pm — Lecture on Frank Lloyd Wright by Fred Stitt
Apr. 28, 10:15 am — Tour Frank Lloyd Wright exhibit
May 15, 8 pm — Forum
Ylem plans lecture, studio visit

Frank Lloyd Wright and the Future of Architecture, lecture by Fred Stitt, architect and Secretary of Ylem Thurs. Apr. 19, 8 pm

Frank Lloyd invented radical new systems, thinking and problem-solving that created a whole new type of architecture. These systems made Wright the most innovative architectural technologist of his time. Most of his systems and inventions have not been understood or used by other architects or architectural schools, but some are following through and creating another new world of architecture. This lecture will describe Wright’s primary inventions and systems of thought, and show some of his most adventurous young counterparts.

The Exploratorium, 3601 Lyon, S.F. Admission $3

Visit to Interactive sound and visual installation by Marjorie Franklin, Beverly Reiser, and Hans Reiser April 8, 3-5 pm

Life on a Slice: A metaphor for decision making based on information slices. An interactive installation that explores choice making, based on information slices.

When the participant signals a choice, a change occurs. The effect of the choice remains, but they are again offered more choices that stem from and augment the previous choice until the image is completed. The participant sees his/her image on the screen throughout the session. Meanwhile there will be a sampling keyboard providing sound choices. It has storytelling sound images such as footsteps on a floor. The player can spontaneously rearrange the sound images like building blocks to tell different stories. Does a different sequence tell a different story? How much of a story is dependent on the inferences of the participant rather than the sounds themselves? The above is accomplished with an Amiga computer, Deluxe Paint, a live digitizer, video camera, sampling keyboard, etc.

4333 Holden, #54, Emeryville, CA. Take I-80 to Powell St exit or take 580 to West St exit. Info: 415-482-2483 or 415-653-4582.

"Passages," monotype by Patricia M. Tavenner
Contaminación by Trudy Myrrh Reagan

In conversation with Laura Elenes, Professor of Design, University of Mexico.

In November 1988, Trudy Myrrh Reagan was the guest of Laura Elenes, Ylem's member in Mexico City, while she participated in an artist exchange program conducted by Sra. Elenes. This article condenses several days of conversation, and a lecture that accompanied Elenes' computer art exhibit, Contaminación, at the Mexico City Natural History Museum.

Contaminación is the Spanish word for pollution, but it also touches on the subject of cultural contamination here.

Although Mexico City is considered a hardship post for American diplomats because of the poor air quality, the visibility was pretty good as Laura Elenes drove me downtown. We could see tall buildings five miles away, but not the famous volcanos through the brown air. Elenes said, "When I was young and was just returning here from Paris and other European cities in 1964, I said to myself, 'I live in one of the great cities of the world! Look at its parks, historical sites, its boulevards!' At that time the air was clear, and the boulevards were beautifully kept. It has been very sad to watch its decline over the last 20 years. The population, the dirt are completely out of control." During this time it grew to eighteen million people. Yet, not being compressed upward like Manhattan or viciously defaced with graffiti, downtown Mexico City did not stifle. It seemed merely dreary, degrees worse than Los Angeles. Her eyes saw more, anticipating the deterioration to come.

Her multimedia exhibit was composed of elements that deliberately avoided exotic, high-end technology. Computer paintings suggesting skyscrapers were done on an Apple with a rudimentary paint program, and photographed off the computer screen. These were printed on clear acetate film and mounted on gold board for a handsome effect. Looming over the exhibit was a large TV playing her works in a sequence that created an animation, accompanied by a vigorous musical composition appropriately titled Metropolitana a cassette recorder. The progression of images carried a clear message: The present was represented by a series of man-made environments with darkened sky and rain of particulate matter. The next sequence containing a figure pushing outward against a geometric figure signaled that "we made this mess, but we can take control of it." Birds flew across the final images of clean, tree-lined boulevards.

In a lecture at the museum she explained the rationale for using a lowcost, low-resolution system when her position gives her access to better. She wants to demonstrate, she said, that machines that are readily available in their discount stores are creative tools. Well-to-do Mexican parents buy them for kids just to play games when they should be developing their imaginations and taking control of the technology. "High-tech images that bombard us from the TV and computer games are another form of contamination," Elenes said. "They drown out the poetic instinct. The images are so complete, and come at us in such quantity that there is no time to assimilate them, to create one's own view of the world. While reading or looking at a painting we are bringing the context of our own experience to it, interacting with the work, engaging in a creative act. My low-resolution images force me to rely on poetic devices like metaphor, and force others to decode the metaphors and to use images in their own memories to complete the thought. This is a creative act. Creativity is power, the very power we will need to overcome contaminación."

She mentioned another debilitating element in the hi-tech animation: It is an import. No reference is made to the fascinating culture of Mexico (which I found extremely rich and very different), no validation of local efforts. The synthesized images, so clean, so perfect, says "Try and match this!" A subtle attitude of "Why try?" creeps in, a lowering of self-esteem, of evading responsibility. "That we have too much of already."

What she sees as cultural imperialism is a more general problem, I think. Endowed with drawing talent that would have been useful in 1800, I was cowed by the powers of photography, so perfect, so believable. When I had small children I tried to counter the mindless media images pouring into the kids' heads with homemade scrapbooks. At a recent computer conference I asked makers of synthesized images if they saw any dangers in so many images that confuse us about whether they are real or not. Their consensus was that our environment is so media-mediated that no one knows anymore what's real anymore. I left fuming, but you know what? They're right... Contaminación?
Ylem Calendar

Events
Mar. 13 Ylem Forum: "Geosomatics", See page 1
Mar. 15, 7 pm
Letterforms & Illusions demonstration
Ylem member Scott Kim demonstrates his letterforms program at the BMUG meeting.
Physical Sciences lecture hall, UC Berkeley
Mar. 14, 1:59 pm
π Potluck
Celebrate Einstein's birthday! Join Ylem member Larry Shaw in his periodic stunts with the value of π. With your help, lots of it to eat.
Bring π memorabilia. Exploratorium, 3601 Lyon St., S.F.

Mar. 16, 7:30 pm - preview
Mar. 17 - Apr. 8
"Alfred Stieglitz Loves O'Keeffe"
Multi-media theatrical production about two great artists. Old Town Theatre, 50 University, Los Gatos, CA; 408-293-2110
Mar. 17 & 18, 2 pm
Wall of Water Ballet
Choreographer and filmmaker Jo Andres' dances are combined with filmed images projected onto unusual surfaces. Now she presents work-in-progress in the McClain Theater; a film screen that is a 9 X 12' sheet of water. Will she dance right into it? Exploratorium, 3601 Lyon, S.F.; 415-561-0317
Mar. 18, 1:30 pm
Musical History Murals Public Dedication
Community muralist Mike Mosher has been commissioned by the Laguna Honda Hospital to create 8 panels on various aspects of music in San Francisco. Every Body needs art!
Laguna Honda Hospital, 7th floor, 375 Laguna Honda Blvd., S.F.; 415-881-5670
Mar. 30 - Apr. 1
Contemporary Arts Festival
A fine arts show that includes Ylem member Carrie Adell's jewelry based on science images. Brooks Hall, Civic Center, S.F.
Apr. 8, 3-5 pm
Ylem studio visit: Marjorie Franklin
New interactive artwork. See page 2 for details.
Apr. 28, 10:15 am
Ylem Tours the Frank Lloyd Wright Exhibit
After buying our $5 tickets, we will meet at the exhibit hall door to join the docent-led tour of architect Frank Lloyd Wright's life work (also see Exhibit). Info re: all tours: 415-499-3703. Marin Civic Center Exhibit Hall, Civic Center, San Rafael. Exit from Hwy. 101: "N. San Pedro BL - East".

Needs and Offerings
1990 Spring Computer Graphics Tutorial Workshops
- Basic Macintosh Graphics Techniques, Sunday afternoons, Mar. 4 - April 29 (skip 4/15), $225
- Introduction to Macintosh Animation Methods from Hypercard to Video Works/ Director, Mon. evenings, 7-10 pm, Mar. 5 - May 7 (skip 3/18, 4/16), $200.
- HyperCard and SuperCard Project Development, Wed. evenings, 7-10 pm, $200. (Ed. note: This is held in the Berkeley Hills in newly improved studio of Josephine Haveman, the graphic designer who in 1989 brought the Ylem Newsletter into the world of desktop publishing), A/PIX computer art center, PO Box 9063, Berkeley, CA 94709; info: 415-848-3778
(jellyfish)
(in a
coolness)
(without
edges)

The Film-makers Cooperative Catalog #7
This group rents experimental films, many of which will be of interest to viewers following technology in the arts. The "Coop" is one of the few sources for experimental animation, 1980s underground film, computer animation and non-narrative experimental films. 552 pg. Video catalog available also. Film-makers Cooperative, 175 Lexington Ave., NY, 10018

"Chaos" at the Exploratorium
If you have seen/heard/developed anything in relation to chaos, catastrophe, turbulence, fractals, strange attractors that would have relevance to the Exploratorium program, write the museum.
Meetings are being held to explore possibilities, and you may be invited. Contact: L. Kolla, Exploratorium, 3601 Lyon, S.F., CA 94123

Electronic Art Issue, Leonardo
Copies available of supplemental issue published in conjunction with the First International Symposium on Electronic Art (FISEA), 1989, in the Netherlands. An all-star table of contents! $5.00 from: 1442A Walnut #75, Berkeley, CA 94709

Mandelbrot and Julia Sets video
Two hours of colorful motion through a mathematical landscape of fractals created at the Cornell Supercomputing Lab. Includes the popular "Nothing but Zooms" (the Mandelbrot set), Julia sets, Lorenz Attractor, 3D sequences.1/2" VHS, $50.
Documentation, $5. Owners of "Zooms", inquire about big discount. Art Matrix, PO Box 880MJA, Ithaca, NY 14851; 24-hour phone: 1-800-729-3889

Aerial Press
Started in 1981 by mathematician Ralph Abraham, this is the first and best source for books, and software relating to chaos theory. Catalog lists Fraxtoo (that creates the prettiest fractal designs we've seen yet from a software disk). Full Color. Runs on IBM PC/XT/AT/ PS2 compatible,EGA or VGA monitor, DOS 2.0 or higher, 640 K and a hard disk $59. CA residents add $3.70 sales tax. Aerial Press, PO Box 1360, Santa Cruz, CA 95061; 408-425-8819

Kaos, Inc.
An organization much like our own in Chicago dedicated to exploring links between art and science through individual projects. Their first, an exhibit called "Strange Attractors: The Spectacle of Chaos," earned them national attention. Future exhibits on other, equally intriguing subjects are planned. Kevin Magnin, one of its directors, has just joined Ylem, and can be reached at: Kaos, 1440 N. Dayton St. #203, Chicago, IL 60622; 312-915-0892; FAX 312-915-0454

Art Calendar
A national calendar of competitions, jobs, internships, etc. $29/yr. Well worth it! Clearly presented, with articles on the business of art. Art Calendar, PO Box 1048, Great Falls, VA 22068

Artists Need Temporary Residences
Artists around the world come to the Exploratorium in S.F. to do art. The museum seeks donated or inexpensive accommodations from time to time. Info: Gloria Gragg, Exploratorium, 415-561-0317

Earth Day, 1990
April 22: What on Earth will you be doing? Earth Day 1990 needs volunteers to help reorient our global environmental agenda. Earth Day 1990, PO Box AA, Stanley, CA 94309; 415-321-1990

Calendar Items
Continue to send the Ylem Newsletter notices of your shows and activities. Who among you is participating in Pro Arts' East Bay "Open Studio"? Ylem News, 987 Moreno, Palm Alto, CA 94303; 415-858-9593

rain in my mouth —
in the whipping wind gasping —

child touching it,
whispering eyes
Mar. 1 - Apr. 28

Opening reception Mar. 1, 6-9 pm
2nd reception Apr. 5, 6-9 pm

Krypton (Portland, OR)

Krypton is the team of computer artists in Lenzburg, Switzerland who create a loose integration of electronic realism and imagination. Ursula Ulrich, Swiss artist member of Krypton, will be at the receptions.

Abaci Gallery of Computer Art, 312 NW 10th, Portland, OR 97209

Through Mar. 31

Blessed Oblivion (Los Angeles)

Group show of neon and electric art. MONA (Museum of New Art), 704 Traction Ave., L.A., CA 90013; 213-817-1580

Through Apr. 1

Capturing Light

150 years of photography. Includes good stereo section, with apparatus and explanatory demo. The Exploratorium, 3601 Lyon St., S.F.; 415-563-7337

Apr. 4 - May 12

Lecture by artist, Apr. 11, 6:30 pm

Weaving by Sheila O'Hara (New York)

Witty wall-hangings in complex weaves, some calculated by computer. Center for Tapestry Arts, 167 Spring St., NY, NY; 212-431-7500

Apr. 5 - Aug. 25

Kenneth Snelson: The Nature of Structure (Wash. DC)

Snelson, famous for sculptures based on tensegrity, shows his "Portrait of the Atom," from his 30-year inquiry into how electrons behave around the nucleus. Includes sculptures small and large, computer graphics and more. National Academy of Sciences, 2101 Constitution Ave. NW, Washington, DC

Through Apr. 18

Shoe-Field

Intriguing installation piece by Ylem artist Sonya Rapoport explores the relation between raw data and "knowledge." It analyzes and displays graphically peoples' responses about their shoes. Also on view is Rapoport's collection of her own shoes with their accompanying analysis. On site is a computer with a program that tells you how you rate if you answer the shoe questions, giving you a "shoe-psychic reading." On view during business hours at Cadence Design Systems, 555 River Oaks Parkway, San Jose, CA

Through Apr. 29

Holograms by William J. Molteni, Jr.

An important retrospective by a holography pioneer, he invented one of the two means for making holograms that move, using movie footage. At Polaroid Corp. he conducted research on the world's most advanced imaging display techniques. He currently consults with the M.I.T. Media Lab. His personal artistic projects include a drawing in 3-D using software he wrote.

Holos Gallery, 1792 Haight St., S.F., CA 94117; 415-221-4717

Through May 13

In the Realm of Ideas, Frank Lloyd Wright

The grand old man of American modern architecture continues to surprise us. Exhibit of 100 works being shown inside the Civic Center building designed by him features a full-scale model of the 1955 "Usonian House" to explore. See Events for special Ylem activities. Marin Civic Center, San Rafael, CA: 415-459-5843. Exit off Hwy 101 at "N. San Pedro Rd. — East"

Through May 13

Alexander: Retrospective Show (Santa Ana, CA)

60 works, incl. 26 holograms and holographic installations. Travelling show was also seen in Brazil and Chile, and will tour U.S. museums. Modern Museum of Art, Santa Ana, CA. Info: Alexander, 212-333-8848

Through May 30

Equus/Underwater (Chicago)

Holography and laser projection are used as a method of storytelling in a large installation by Ylem members Nancy Gorgione and Greg Cherry. Also on view is "Artmaps," by Donna Van Dijk. County Offices, 701 Ocean St., 5th fl., Santa Cruz

Hawks on preceding page by Rod Whitlock


Deadline Mar. 17

Djerassi Foundation Artists in Residence


Deadline Apr. 2

Computer Graphic Educators Grants

ACM SIGGRAPH offers 25 grants to computer graphics educators in beginning, updating, or strengthening computer graphics courses or programs. Grant includes full participation in SIGGRAPH '90 in Dallas Aug. 6-10. Info: G. Scott Owen, Mathematics and Computer Science, Georgia State University, Atlanta, GA 30303; 404-651-2247; matgso@gsuvm.bitnet

Deadline Apr. 5

Earthday 1990 Mail Art

Andrew Goldberg Gallery, San Jose, CA. Any mailable art (return with SASE). No fee. PROS: send SASE to Laura Landgon, 221 Hawthorne Ave., #8, Palo Alto, 94301

Deadline Apr. 15

Expression/Oppression: Global Awareness

"As some curtains rise around the world, other curtains are drawn tighter. Global awareness in the age of mass media - is it expression or oppression you are experiencing?" 4 x 8 inches, all media. No returns, no fee, documentation to all entrants. Send it to Carrie Galbraith, Acad. of Art College, 625 Sutter St., San Francisco, CA 94102

Deadline May 15

Prix Ars Electronica

Austrian computer arts contest, no fee. Art, animation, music, interactive art. Large cash prizes. PROS: Rachel Carpenter, U.S. rep., 82 Queue Vista, Novato, CA 94947; 415-892-8254

Deadline May 31
Riddle of the Atom by Kenneth Snelson

To me it has always seemed reasonable for an artist to try solving the riddle of the atom, how the electrons move and interact to carve out its space. It is a three-dimensional sculptural problem. Science declares itself to have abandoned that quest six decades ago with the advent of the uncertainty principle. The great physicist Max Born put it this way: "... what lies within the limits (of the uncertainty principle) is knowable ... What lies beyond the dry tracts of metaphysics, we willingly leave to speculative philosophy." Aren't artists, perhaps, the last of the speculative philosophers as well as metaphysicians?

Science's decision, back in the 1920s, meant simply that humanity's efforts to deduce what an atom might "look like" if we were able to see one (a puzzle inherited from the Greek philosophers of twenty-five hundred years ago) was to be set aside forever. The whole issue, very hot in the 1920s and '30s, is now considered a dead one. As an artist who believes that all creatures and structures—everything—ought to be visualizable, I find the puzzle of picturing the atom irresistible.

I became interested in the subject in 1960 out of fascination with structures of all kinds. The model I've produced is an artist's model and it looks different from the familiar, statistical, charge cloud which many people find disquieting on questions of logic alone. Unlike many who say we should not expect the atom to make sense, I have faith in reason where structures are concerned and believe that the atom should make as much sense as any other assembly forces in the universe. After all, atoms—objects composed of forces—were here long before mathematical abstractions appeared.

My atom is an eclectic picture based on ideas that had been proposed before: Heisenberg's principle succeeded in turning people away from such models. What I've done is to reconstruct the parts in a different order. I think that finally we are dealing with something like the fable of the blind men and the elephant. Incorporated in my atomic architecture is the familiar circular matter-wave orbit of the Niels Bohr-Louis de Broglie picture (1913-1923) which revealed the electron to have a "matter-wave" character and also required that it hold its flight path to a constant altitude as it moved around the nucleus—except when it was giving off or taking in energy. My picture modifies the Bohr-de Broglie image by allowing the electrons to maintain their orbits not only in equatorial great circle paths but in halo positions as well. This is where I run into most objections because people still consider the electron to perform like a tiny planet revolving around its nuclear "sun".

Another quality necessary in order for the atom to make sense: the de Broglie electron's matter-waves must be thought of as real and functional, not merely as abstractions. If matter-waves are real, then they ought to be endowed with the most elemental property of matter: solidity. In other words, the orbital path of each electron would occupy space, thereby keeping other matter waves out.

In my picture of an atom, the electrons do not ricochet randomly, but rather they serve to fill up the atom's space. Each shell is a sphere of structural symmetry. When a pattern is filled, like individual tiles completing a mosaic, the next electron begins another shell, and so on.

For the past 3 years I've been using a Silicon Graphics computer with Wavefront software to create images for this long-running, open-ended, art work which I call "Portrait of an Atom." In some future time, if we ever are able to see the atom's electrons performing their unique choreography, that is, if science discovers an unexpected end-run around the limitations of the uncertainty principle, I'm convinced that we'll get a view of atoms much like those in my computer pictures.
**Book Reviews**

An exhibition, Kenneth Snelson, The Nature of Structure, which travelled from the New York Academy of Sciences to the California Museum of Science and Industry last year, will open this year on April 5th at the National Academy of Sciences in Washington D.C. The show has models in various media as well as drawings, photographs, sculptures and computer pictures.

A 60-page Catalog complete with text and pictures is available for $12 (incl. postage and handling).

Address all mail to Kenneth Snelson, 140 Sullivan St., N.Y., N.Y. 10012.

Also, on June 6, 1990 (see local listings) there will be a Smithsonian World TV program titled Quantum Universe in which I have a few moments to talk about my atom and show computer pictures.

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**Motion Motion: Kinetic Art**, by Jim Jenkins and Dave Quick, Gibbs Smith, 1989 (paper $14.95)

**Laurence M. Gartel: A Cybernetic Romance**, Gibbs Smith, 1989 (paper $14.95)

Peregrine Smith Books (PO Box 667 Layton, Utah 84041) has recently published these books as part of their "The Future is Now" Series.

Motion Motion documents recent kinetic art works with 75 photographs (55 in color). This book proves that kinetic art is alive and well, albeit a bit more eccentric than the heady days of the 1960's. The book takes the position that the "movement" is now more concerned with content and human response than with simply showing off new technology — the downfall of the movement in the 1960's.

Laurence M. Gartel's high energy, somewhat whimsical, images are produced using video effects, color computer graphics and Macintosh graphics. Although the intense colors in this catalog begin to fatigue the eye, the individual images are, as Nam June Paik states, "fresh, electric, running against the grain of commercial art."

Both books are 64 pages long and their large format (10x14) allows room for large, detailed photographs. These books are welcome additions to the growing art-and-technology literature.

—Reviewed by Chris Yewell

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The editor of this giant opus, chemist Istvan Hargittai, has accomplished an amazing task. He has found authors with new things to say about symmetry.

Volume 2 covers much of the same ground as the first volume (published in 1986), but manages to extend the discussion to new areas (robotics, economics, medical sciences) and deepen understanding in other areas (crystallography, art, physics). The 2 volumes now contain the work of scientists and artists from 23 countries.

The study of symmetry has for some time been seen as an interdisciplinary tool that applies to art, science, and mathematics, but only fairly recently has it been connected to the world of physics.

The pivotal role of symmetry in modern physics can be traced to Albert Einstein and his 1905 paper introducing special relativity. Before then physics laws were more often framed in terms of conservation laws.

In the contemporary arts strict symmetries are normally viewed as devices for the decorative arts which need to be avoided or utilized in such a way as to avoid being seen as perceptually superficial. The authors in this book clearly demonstrate that symmetry coming from the sciences and mathematics can be used quite profitably in the arts and possibly even play some sort of role in the social sciences (see B.P. Fabricant's article about gambling, the stock market, consumer markets and the role of government in symmetric markets).

I can recommend this new volume to all those interested in interdisciplinary approaches to knowledge and those interested solely in computer graphics, particle physics or topology. The closing article by Istvan Hargittai entitled "The Joy of Symmetry" gives us a glimpse of where Dr. Hargittai is headed — providing us with companions to the "The Joy of Cooking." In the meantime Dr. Hargittai is editing a new journal entitled "Symmetry," of course. He can be reached at the Hungarian Academy of Sciences, Eotvos University, Budapest VIII, Puskin utca 11-13, PO Box 117, H-1431, Hungary.

—Reviewed by Roger Malina, executive editor, Leonardo.

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Breeze in me making the gently crashing waves

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*Photo by Rod Willmot"
Please send a membership application and sample newsletter to (me) (my friends) at:

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Membership is $25 per year. Students $15. Send to Ylem, PO Box 749, Orinda, CA 94563.

This is your newsletter!!!
Please continue to send notices of events, needs, opportunities, exhibitions and talks and art on a Mac disk or that will reproduce well by blow copy machine. Written material accompanying artwork on same subject is welcome. Deadline: 20th of each month.

Ylem Newsletter
967 Moreno
Palo Alto, CA 94303 (415) 856-9593


Get your copy of the YLEM VIDEO. Features 26 artists.
1/2" format $24., members $12. Mark Briggs, 3601 Kelso Ct., San Jose, CA 95127

YLEM
Artists Using Science and Technology
P.O. Box 749, Orinda, CA 94563

April Newsletter

Ylem: Artists Using Science and Technology is a non-profit organization.
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