

**CURRICULUM VITAE
CHARLES J. KAZILEK**

PRESENT POSITION

Senior Research Professional
School of Life Sciences
Arizona State University
Tempe, Arizona 85287-4501

EDUCATION

1992 Master of Natural Science, Department of Zoology, Arizona State University.
1983 Bachelor of Fine Arts, School of Art, Arizona State University.

AREAS OF SPECIALIZATION

Research and educational communication expertise including the following specialties:

Microcomputers including: hardware and software instrument interfacing with micro-computers.

Web development hypertext markup language (HTML), Javascript, and web graphics.

Electron and light microscopy including such techniques as: ultra-rapid freezing, freeze fracture, thin sectioning, critical point drying, scanning-laser confocal microscopy, scanning light macrography and general light microscopy.

Photographic, Digital imaging, and illustrative scientific documentation including: preparation of photographic plates for publication, illustrative drawings, slide, and film presentations.

preK-12 science content development including creative interactive activities.

PROFESSIONAL EMPLOYMENT

2005 - Senior Research Professional/ Director of Technology Integration & Outreach
1998 - 2005 Senior Research Professional/ Manager of the Life Sciences Visualization Group,
 Technical Director of William M. Keck Bioimaging Laboratory, Arizona State
 University School of Life Sciences.
1994 - 1998 Associate Research Professional / Manager of the Life Sciences Visualization
 Group, Arizona State University Department of Zoology.
1987 - 1994 Associate Research Specialist, Arizona State University Department of Zoology.
1984 - 1987 Electronic Technician II, Arizona State University Department of Zoology.
1980 - 1985 Photographer/Producer, Plastic Surgeons Association. Producer of educational films
 and slide presentations.

PROFESSIONAL ACTIVITIES

2001-2002 Artist Residence, Institute for Studies in the Arts, Arizona State University.
1999- Creator/Co-developer *The Paper Project* (<http://lifesciences.asu.edu/paperproject>)
1997- Creator/Developer *Ask a Biologist* K-12 web program (<http://askabiologist.asu.edu>)

AWARDS

- 2006 American Association for the Advancement of Science (AAAS), Southwestern and Rocky Mountain Division (SWARM) *Donald J. Nash Memorial Award*. A judged award presented to the outstanding presentation at the AAAS-SWARM Annual Meeting.
- 2005 Multimedia Educational Resource for Learning and Online Teaching (MERLOT), *2005 Classics Award winner for Teacher Education*, The Paper Project web project.
- 2004 Center for Digital Education - *Digital Education Achievement Awards - DEAA - Integrated/Multi-Focus Application (education) Site*, Ask A Biologist
- 2004 Arizona Technology in Education Alliance - *Exemplary Higher Education Web Site Award*, Ask A Biologist
- 2004 Arizona State University - *President's Award for Innovation*, Ecology Explores Program
- 2003 Arizona State University - *President's Award for Innovation*, Ask A Biologist Web Program
- 1993 Governor's Recognition (Team) Award in the State of Arizona

SERVICE ON INTERDEPARTMENTAL COMMITTEES

- 2005-08 SoLS Information Technology Committee (Chair)
- 2005-08 SoLS Web Development Committee (Chair)
- 2004-05 SoLS Bioimaging Laboratory Director and Manager(s) Search Committee
- 2003-05 SoLS Academic Professional Personnel Committee
- 1998-99 Keck Manager Search Committee
- 1997- W.M. Keck Bioimaging Laboratory committee
- 1996 Life Sciences Media Specialist Search Committee (chairman)
- 1996 Goldwater Bioimaging Laboratory Manager Search Committee (chairman)
- 1994-97 Goldwater Center Biotechnology Facilities Oversight Committee
- 1991-92 Goldwater Center Design Subcommittee (Image Analysis Lab, chairman)
- 1990-91 Life Sciences Academic Professional Unit Peer Review Committee (chairman)
- 1987-92 Goldwater Center Design Subcommittee (Image Analysis Lab)

SERVICE ON UNIVERSITY COMMITTEES

- 2007-09 University Committee on Academic Professional Status (University-wide election).
- 2006-08 University Academic Professional Grievance Committee (University-wide election).
- 2005- K-12 Education Advisory Committee for Ecology Explorers (Part of the Global Institute of Sustainability)
- 2003-05 University Academic Professional Grievance Committee (University-wide election - elected chair in 2005).
- 1996-98 University Academic Professional Promotion and Continuing Status committee.
- 1992-93 Elected co-chair of the A.S.U. Computing Consultants Cooperative.
- 1991-92 Elected co-chair of the A.S.U. Computing Consultants Cooperative.

SERVICE ON REGIONAL & LOCAL COMMITTEES

- 2006-07 President, Arizona Imaging and Microscopy Society
2003- Eighth Annual International Symposium on Avian Endocrinology Local Organizing Committee
1999-03 Arizona Science Center Program Advisory Committee.

TEACHING EXPERIENCE

- 2005, Spring Scientific Data Presentation (BIO 508)
2004, Fall Advanced Topics in Bioimaging Laboratory (BIO 591)
2004, Spring Scientific Data Presentation (BIO 508)
2003, Fall Advanced Topics in Bioimaging Laboratory (BIO 591)
2003, Fall Computer Applications for the Medical Field (BBSC 319), Midwestern University
2003, Spring Scientific Data Presentation (BIO 508)
2002, Fall Advanced Topics in Bioimaging Laboratory (BIO 591)
2002, Fall Computer Applications for the Medical Field (BBSC 319), Midwestern University
2001, Fall Advanced Topics in Bioimaging Laboratory (BIO 591)
2001, Fall Computer Applications for the Medical Field (BBSC 319), Midwestern University
2001, Spring Scientific Data Presentation (BIO 508)
2000, Fall Advanced Topics in Bioimaging Laboratory (BIO 591)
2000, Spring Bioimaging Seminar Course (BS300C), Midwestern University
2000, Spring Scientific Data Presentation (BIO 508)
1999, Spring Scientific Data Presentation (BIO 508)
1998, Fall Advanced Topics in Bioimaging Laboratory (BIO 591)
1997, Fall Scientific Data Presentation (BIO 508)
1995, Spring Scientific Data Presentation (ZOL 508)
1993, Fall Scientific Data Presentation (ZOL 508)
1992, Fall Scientific Data Presentation (ZOL 508)
1991, Fall Scientific Data Presentation (ZOL 508), formally added to university catalogue
1990, Fall Scientific Data Presentation (ZOL 598)
1989, Fall Scientific Data Presentation (ZOL 598)
1988, Fall Scientific Data Presentation (ZOL 598)

OTHER TEACHING / WORKSHOPS

- 2006-2008 Dr. Biology's Imaginative Classroom. Arizona Science Center, Institute for Teaching
2001-2007 Life Science Visualization Workshops
1995-2008 Annual Undergraduate Poster Presentation Workshop

SERVICE ON THESIS COMMITTEES

- 2003-2006 Graduate thesis committee, Kimberly Repp.
1999 Undergraduate honors thesis committee for Rahul Athalye.
1995-1997 Graduate thesis committee for Gail Young.
1995 Undergraduate honors thesis committee for Hamilton Dorian.
1994 Undergraduate honors thesis committee for Melissa Burke.

PUBLICATIONS

A. BOOKS AND BOOK CHAPTERS

- Kazilek, Charles, Kim Cooper, Alan Magid. 2006. Instructor's Manual: Anatomy and Physiology. Martini (Seventh Edition). Benjamin Cummings. 236 pages.
- Pearson, David, C. Barry Knisley, Charles Kazilek. 2005. A Field Guide to the Tiger Beetles of the U.S. and Canada. Oxford University Press. 270 pages.
- Kazilek, Charles and Kim Cooper. 2005. Instructor's Manual: Anatomy and Physiology. Martini. Benjamin Cummings. 244 pages.
- Kazilek, Charles and Kim Cooper. 2004. Instructor's Manual: Fundamentals of Anatomy and Physiology. Martini (Sixth Edition). Benjamin Cummings. 512 pages.
- Valentine, G., Charles Kazilek. 2002. Rediscovering the Familiar: The Interior Aesthetics of Paper. Timeless Paper. Holland Press, 2002. 80-85.
- Kazilek, Charles and Kim Cooper. 2000. Instructor's Manual: Fundamentals of Anatomy and Physiology. Martini (Fifth Edition). Prentice Hall Publishing. 450 pages.
- Kazilek, Charles, Kim Cooper, Lucia Tranel and Alice Mills. 1998. Instructor's Manual: Fundamentals of Anatomy and Physiology. Martini. (Fourth Edition). Prentice Hall Publishing. 464 pages.
- Chandler, D. E., C. J. Merkle, and C. J. Kazilek. 1989. Detection of calcium signals in neutrophils using fluorescent dyes: hyperosmolarity inhibits lysosomal enzyme release and the preceding rise in cytosolic free calcium. Fluorescence Spectroscopy: Biological, Hydrological, and Environmental Applications, M. C. Goldberg, ed., American Chemical Society, Symposium series 383, Chapter 5: 70-83.

B. PAPERS

- Satterlie, Richard A., Tigran P. Norekian, Sheryl Jordan and Charles J. Kazilek. 1995. Serotonergic Modulation of Swimming Speed in the Pteropod Mollusc *Clione limacina*. *Journal of Experimental Biology*. 198: 895-904.
- Racowsky, C., K. V. Baldwin, C. A. Larabell, A. DeMaris and C. J. Kazilek. 1989. Down-regulation of membrana granulosa cell gap junctions is correlated with irreversible commitment to resume meiosis in golden Syrian hamster oocytes. *European J. Cell Biol.* 49:244-251.
- Kazilek, C. J., C. J. Merkle, and D. E. Chandler. 1988. Hyperosmotic media inhibit both exocytosis and calcium signals in formyl-peptide activated neutrophils. *Am. J. Physiol.* 254: C709-C718.
- Chandler, D. E., and C. J. Kazilek. 1987. Calcium signals in neutrophils can be divided into three distinct phases. *Biochim. Biophys. Acta* 931:175-179.
- Chandler, D. E., and C. J. Kazilek. 1986. Extracellular coats on the surface of *Strongylocentrotus purpuratus* eggs: stereo electron microscopy of quick-frozen and deep-etched specimens. *Cell Tiss. Res.* 246:153-161.
- Chandler, D. E., and C. J. Kazilek. 1986. Chemotactic peptide-induced exocytosis in neutrophils: granule fusion patterns depend on the source of messenger calcium. *J. Cell Sci.* 83:293-311.

C. ABSTRACTS

- Racowsky, C., K. V. Baldwin, C. A. Larabell, A. DeMaris and C. J. Kazilek. 1989. Membrana granulosa Cell gap junction integrity and oocyte meiotic status in Golden Syrian hamster. *J. Cell Biol.* 4669: 821a.
- Kazilek, C. J., D. E. Chandler, and C. A. Larabell. 1989. A quick-freeze, deep-etch analysis of the extracellular matrix of *Xenopus laevis* Oocytes before and after meiotic maturation. *J. Cell Biol.* 4657: 819a.
- Chandler, D. E., C. J. Merkle, and C. J. Kazilek. 1987. Signal transduction in neutrophils: the chemotactic peptide-generated calcium signal consists of three distinct phases. *J. Cell Biol.* 56: 13a.
- Kazilek, C. J., C. J. Merkle, and D. E. Chandler. 1987. Detection of calcium signals in neutrophils using fluorescent dyes: hyperosmolarity inhibits lysosomal enzyme release and the preceding rise in cytosolic free calcium. Abstracts of the American Chemical Society 193rd Natl. Meeting, Div. of Environmental Chem., Vol. 27(1), pg. 47.
- Chandler, D. E., and C. J. Kazilek. 1985. The vitelline layer of the sea urchin egg: structural modifications during fertilization as seen in stereo electron micrographs of deep-etched, rotary-shadowed eggs. *J. Cell Biol.* 101: 229a.

D. NON-REFEREED ARTICLES

- Kazilek, Charles. 2007. Zap, Bang, and Empower Your Students with a Comic Book Activity. AzTEA Newsletter.
- Kazilek, C. J. 2007. World Hidden in Paper. Quo Magazine (Chinese Edition), Vol. 2, pg. 8-15.
- Sharp, W. P., C. J. Kazilek. 1991. Scanning Light Microscopy. In Controlling Color Photography, Preston Publications, Chapter 4: pg 31-33.
- Sharp, W. P., C. J. Kazilek. 1990. Scanning Light Microscopy. Darkroom and Creative Camera Techniques. January/February, Vol. 11 (1), pg 43-45.
- Kazilek, C. J., W. P. Sharp. 1989. Parting Shots: Image of the shell *Chama congregata* (conrad) taken with scanning light instrument. Arizona State Research Magazine, Vol. 4 (1), pg. 33.

E. ELECTRONIC PUBLICATIONS

- Kazilek, C.J., Gene Valentine, and Jennifer Tsukayama. 2005. 3D Images: how anaglyphic images work. . Microscopy III: Image Analysis & 3D Reconstruction (CD). Multimedia Knowledge.
- Kazilek, C.J. and Dennis McDaniel. 2004. Guide to Confocal Imaging at Home & in the Classroom. Microscopy II: Image Analysis & 3D Reconstruction (CD). Multimedia Knowledge.
- Kazilek, C.J. and Gene Valentine. 2004. The Paper Project - a new light on paper. Microscopy II: Image Analysis & 3D Reconstruction (CD). Multimedia Knowledge.
- Kazilek, C.J. 1998. Interactive Web Media. Anatomy and Physiology Instructors' Cooperative: What's New. July 26 1998, <http://www.anat-phys.com/whatsnew/archives/july2698.html>.
- Kazilek, Charles and Kim Cooper. 1997, 1998. Anatomy and Physiology Instructors' Cooperative Web Site. Prentice Hall Publishing.
- Kazilek, Charles and Kim Cooper. 1997. Anatomy and Physiology Instructors' Cooperative Interactive Resource Disk. Prentice Hall Publishing.

F. ELECTRONIC PROGRAMS - AUDIO INTERNET RADIO SHOW (PODCAST)

- Kazilek, C.J. (Host). 2008. Vol 33. Ask-a-Biologist: a program about the living world. Wickedly Cool Plants. Guest Scientist Raul Gutierrez. Co-host Taylor Cheatham. Topics: plants, desert plants, carnivorous plants. Length 25:37.
- Kazilek, C.J. (Host). 2008. Vol 32. Ask-a-Biologist: a program about the living world. Spiderwomen Guest Scientists Eileen Hebets and Lisa Taylor. Topics: spiders, communication, mate choice. Length 32:16.
- Kazilek, C.J. (Host). 2008. Vol 31. Ask-a-Biologist: a program about the living world. Spider Man Meets Spider-Man. Guest Scientist Norman Platnick . Topics: spiders, spider-man, silk. Length 28:51.
- Kazilek, C.J. (Host). 2008. Vol 30. Ask-a-Biologist: a program about the living world. Math Biology. Guest Scientists Cassie Pawling and Genevieve Toutain Topics: math, computational biology, fun math tricks. Length 30:53.
- Kazilek, C.J. (Host). 2008. Vol 29. Ask-a-Biologist: a program about the living world. Panda-monium. Guest Scientists Andrew Smith and WEI Fuwen. Topics: Pandas and Conservation. Length 29:52.
- Kazilek, C.J. (Host). 2008. Vol 28. Ask-a-Biologist: a program about the living world. Birds of a Feather. Guest Scientists David Pearson and Cathy Wise. Topics: birds. Length 30:35.
- Kazilek, C.J. (Host). 2008. Vol 27. Ask-a-Biologist: a program about the living world. Hulking Biology . Guest Scientist Gerry McDermott. Topics: cells, x-ray, and synchrotron. Length 31:20.
- Kazilek, C.J. (Host). 2007. Vol 26. Ask-a-Biologist: a program about the living world. Cell CAT Scans. Guest Scientist Carolyn Larabell. Topics: cells, x-rays, tomography. Length 31:56.
- Kazilek, C.J. (Host). 2007. Vol 25. Ask-a-Biologist: a program about the living world. NSDL. Guests Kaye Howe, Carol Minton-Morris, Samantha Katz, Lee Zia. Topics: National Science Digital Library. Length 30:56.
- Kazilek, C.J. (Host). 2007. Vol 24. Ask-a-Biologist: a program about the living world. Bee Movie Maker. Guest Scientist Brian Smith. Topics: bees and bee behavior. Length 43:42.
- Kazilek, C.J. (Host). 2007. Vol 23. Ask-a-Biologist: a program about the living world. Tiny Matter. Guest Scientist Stuart Lindsay. Topics: nanobiology. Length 25:10.
- Kazilek, C.J. (Host). 2007. Vol 22. Ask-a-Biologist: a program about the living world. You Say Dirt, I Say Soil. Guest Scientist Ferran Garcia-Pichel. Topics: microbes and extremeophiles. Length 30:55.
- Kazilek, C.J. (Host). 2007. Vol 21. Ask-a-Biologist: a program about the living world. When Good Cells Go Bad. Guest Scientist Michael Berens. Topics: cells and cancer. Length 30:50.
- Kazilek, C.J. (Host). 2007. Vol 20. Ask-a-Biologist: a program about the living world. Fire and Life. Guest Scientist Stephen Pyne. Topics: grasses and fungi. Length 29:54.
- Kazilek, C.J. (Host). 2007. Vol 19. Ask-a-Biologist: a program about the living world. Watching Grass Grow. Guest Scientist Stan Faeth. Topics: grasses and fungi. Length 24:58.
- Kazilek, C.J. (Host). 2007. Vol 18. Ask-a-Biologist: a program about the living world. Stinging Mystery. Guests Conrad Storad Michael Quinlan. Topic: scorpions. Length 27:59.
- Kazilek, C.J. (Host). 2007. Vol 17. Ask-a-Biologist: a program about the living world. Ant Math. Guest Scientist Stephen Pratt. Topics: ant society and problem solving. Length 24:57.
- Kazilek, C.J. (Host). 2007. Vol 16. Ask-a-Biologist: a program about the living world. Dr. Biology Goes to Washington D.C. Guests: Cheryl Zook (independent film maker), Elizabeth Pennisi (science writer), and Nancy Pelaez (NSF) . Topics: science beyond the scientist. Length 30:20.
- Kazilek, C.J. (Host). 2007. Vol 15. Ask-a-Biologist: a program about the living world. Roses are

Red and Violets are Blue, but Why? Guest Scientist Kevin McGraw. Topics: color and color vision. Length 30:00.

- Kazilek, C.J. (Host). 2007. Vol 14. Ask-a-Biologist: a program about the living world. A Walk on the Wild Side: in search of species. Guest Scientist Quentin Wheeler. Topics: species and taxonomy. Length 21:54.
- Kazilek, C.J. (Host). 2007. Vol 13. Ask-a-Biologist: a program about the living world. Bugs in Films. Guest Scientist Valerie Stout. Topics: podcasting. Length 17:50.
- Kazilek, C.J. (Host). 2007. Vol 12. Ask-a-Biologist: a program about the living world. Stress. Guest Scientist Miles Orchinik. Topics: stress and the brain. Length 30:53.
- Kazilek, C.J. (Host). 2007. Vol 11. Ask-a-Biologist: a program about the living world. Biology Net. Guest Scientist John Alcock. Topics: animal behavior. Length 27:41.
- Kazilek, C.J. (Host). 2007. Vol 10. Ask-a-Biologist: a program about the living world. Casting a Podcast Line. Guest Peggy Coulombe, host of Science Studio. Topics: podcasting. Length 34:42.
- Kazilek, C.J. (Host). 2007. Vol 9. Ask-a-Biologist: a program about the living world. A The Art and Science of Broadcast Journalism . Guests Journalists, Pauline Davies and Robyn Williams, host of The Science Show. Topics: interview process, how to make a good story. Length 34:42.
- Kazilek, C.J. (Host). 2007. Vol 8. Ask-a-Biologist: a program about the living world. A Breath of Fresh Ocean Air . Guest Scientist Susanne Neuer. Topics: ocean, global warming, phytoplankton. Length 29:47.
- Kazilek, C.J. (Host). 2007. Vol 7. Ask-a-Biologist: a program about the living world. Butterflies and Insect Vision . Guest Scientist Ron Rutowski. Topics: insect vision, coloration, music. Length 43:56.
- Kazilek, C.J. (Host). 2007. Vol 6. Ask-a-Biologist: a program about the living world. Keystone Species. Guest Scientist Andrew Smith. Topics: conservation biology, keystone species. Length 30:31.
- Kazilek, C.J. (Host). 2007. Vol 5. Ask-a-Biologist: a program about the living world. Bugs in Space. Guest Scientist, Cheryl Nickerson . Topics: microbes, space travel, bioreactor. Length 26:48.
- Kazilek, C.J. (Host). 2006. Vol 4. Ask-a-Biologist: a program about the living world. The Sounds of Nature . Guest Scientist Pierre Deviche. Topics: Birds, bird songs, and dialects. Length 29:25.
- Kazilek, C.J. (Host). 2006. Vol 3. Ask-a-Biologist: a program about the living world. The Social Nature of Nature. Guest Scientist Bert Hölldobler. Topic: Ants. Length 30:19
- Kazilek, C.J. (Host). 2006. Vol 2. Ask-a-Biologist: a program about the living world. What's the buzz about bees and the bee genome. Guest Scientist Gro Amdam. Topics: Bees and the newly completed bee genome. Length 24:24.
- Kazilek, C.J. (Host). 2006. Vol 1. Ask-a-Biologist: a program about the living world. Tiny Tigers. Guest Scientist David Pearson. Topic: Tiger Beetles. Length 15:06

G. PUBLICATIONS FEATURING ARTICLES & IMAGES

- Gila Monsters. Conrad Storar. Children's Book. Learner Publications. 2008. ISBN 0822578883
- LabAnimal Journal. Volume 36 No. 3, March 2007. Cover
- American Entomologist. Winter 2006. Pages 248, 251.
- CLAS News Magazine. Fall/Winter 2006. Back cover.
- Arizona Republic. Counting Cardinals and Cactus Wrens and Qual. Living Section (section E). February 17, 2004. Pages E1-E3.

Arizona Republic. Who's flying in your 'hood? March 31, 2005.

Arizona Republic. Paper Project Worth a Trip to Museum for Youth. December 24, 2004. East Valley Arts. Page 2.

East Valley Tribune. Web site Offers State Biology Lore. December 5, 2004. Page A3.

CLAS News Magazine. Fall/Winter 2004. Back cover.

Chain Reaction Magazine. Ask a Biologist. Volume 4, Number 1, Spring 2003. Page 33.

ASU Research Magazine. Paper Interiors. Summer 2002. Pages 36-39.

ASU Research Review Video. Paper Project. Channel 8 (local PBS). Number 1102. May 2002

Chain Reaction Magazine. Ask a Biologist. Volume 2, Number 1, Spring 2000. Page 33.

Photographing Minerals, Fossils, and Lapidary Materials. Jeffrey Scovil. Geoscience Press. 1996. Page 63 (Book)

ASU Research Magazine. Fall/Winter 1995. Back cover.

ASU Research Magazine. Through the Looking Glass. Fall/Winter 1995. Pages 24-29.

ASU Research Magazine. Parting Shots. Fall 1993. Page 41.

Beauty Beyond the Eye of the Beholder. Arizona State (Alumni Magazine). Fall 1989. Pages 18-19.

ASU Research Magazine. Parting Shots. Winter 1989. Page 33.

SEMINARS AND PRESENTATIONS

April 17, 2008. Arizona Imaging and Microanalysis Society. Flagstaff, Arizona. "Through the Looking Glass in 3-D: engaging young minds in the classroom and beyond."

March 7, 2008. Arizona Science Center. Adult Night Out - IMAX Theater Lecture Series. Phoenix Arizona. "Journey Inside Paper in 3-D."

February 9, 2008. First Annual Frontiers in Science Conference Series. Iridescence: More than Meets the Eye. Old Main Arizona State University. "Seeing is Believing: Using Color to Capture the Imagination of Students in the Classroom and Online."

November 29, 2007. Arizona Teaching, Learning and Assessment Consortium. ASU Downtown Phoenix Campus, Phoenix Arizona. "Integrating Ask-a-Biologist into the Classroom."

May 12, 2007. Second Annual Colloquium - ASU College of Teacher Education and Leadership. ASU West Campus, Phoenix Arizona. "Ask-a-Biologist: Science Language and ELL activities."

March 12, 2007. Microcomputers in Education Conference. Tempe, Arizona. "Dr. Biology's Imaginative Classroom"

November 28, 2006. Arizona Teaching Learning, and Assessment Consortium. Tempe, Arizona. "Ask a Scientist" Panel Discussion. (Panelist)

November 15, 2006. Arizona Librarians Association Conference. Mesa, Arizona. "Ask a Biologist: Capturing the imagination in the world of life sciences."

September 14, 2006. Paper Discovery Center. Appleton, Wisconsin. "Fiberscapes: Revealing the Beauty and Science of Paper" (Jennifer Tsukayama, coauthor/speaker)

April 7, 2006. Kazilek, Charles J., AAAS-SWARM Annual Meeting. University of Tulsa. Tulsa, Oklahoma. "Fun Flexible Data Sets for Use in K-12 Instruction."

October 21, 2005. Valentine, Gene and Charles Kazilek. Friends of Dard Hunter 2005 Annual Meeting (a conference of hand papermakers). Salt Lake City, Utah. "Looking into Desert Fiber Papers: Confocal Microscapes."

March 16, 2005. Microcomputers in Education Conference. Tempe, Arizona. "Classroom Performance System (CPS): A Catalyst fo Learner-Centered Instruction in Undergraduate Life Sciences Courses." (Patti Thorn, coauthor/speaker)

March 14, 2005. Microcomputers in Education Conference. Tempe, Arizona. Fun and Flexible Data Sets from the Ask a Biologist Program and the Paper Project.”

November 19, 2004. ASU Sneaker Tour presentation and W. M Keck Bioimaging Laboratory tour. “A Simple Question of Art and Science: how a simple scientific question evolved into a multi-discipline collaborative program of art, science and educational outreach.”

March 17, 2004. Microcomputers in Education Conference. Tempe, Arizona. “Dr. Biology’s Pocket Seed Experiment: A Flexible Technology-based Learning Tool to Teach Inquiry.” Workshop. (Elena Ortiz-Barney, coauthor/speaker)

March 15 & 16, 2004. Microcomputers in Education Conference. Tempe, Arizona. “Paper, Paper Everywhere, Let’s Use It to Get Our Students to Think.” (Gene Valentine coauthor/speaker).

February 27, 2004. ASU Sneaker Tour presentation and W. M Keck Bioimaging Laboratory tour. “Synergy Between Art and Science: how a simple scientific question evolved into a multi-discipline collaborative program of art, science and educational outreach.”(Jennifer Tsukayama coauthor/speaker)

November 18, 2003. NASA Center Schools Program - mentor teachers' professional development workshop. Estrella Mountain Community College. Glendale, AZ. “Reaching for the Stars in the Classroom using Ask A Biologist and the Paper Project.

April 23, 2003. Speaker, ASU President’s Enrichment Group. “Linking Art and Science: The Paper Project a multi-discipline project.” (Gene Valentine coauthor/speaker)

April 2, 2003. Speaker, ASU President’s Club. Paper Project: “Paper Interiors multi-discipline dance performance.” (Gene Valentine coauthor/speaker)

March 18 & 19, 2003. Microcomputers in Education Conference. Tempe, Arizona. “The Paper Project: Revealing the Link Between Art, Science and Technology.”

March 13, 2003. Arizona Imaging and Microanalysis Society. Tucson, Arizona. “Through the Fibers: Confocal Images of Handmade Paper Are Fused with Art and Dance.”

December 12, 2002. Speaker, McKemy Middle School. Tempe AZ. “What’s Cool About Paper ?”

September 15, 2002. Great Salt Lake Book Festival. Salt Lake City, UT. “Getting Below the Surfaces of Hand-Made Paper.” (Gene Valentine coauthor/speaker).

February 7, 2002. Panel Discussion - Communicating Science to the Public. ASU Down to Earth Science. Technology and People: keeping a personal touch.

January 12, 2002. Presenter, ASU Down to Earth Science - Saturday Showcase. Ask a Biologist Web Project.

October 18, 2001. Speaker, ASU Web Developers Meeting. Moving Printed Content to the Web.

June 21, 2001. Speaker, Arizona State University Computing Commons Lecture Hall. The Science and Art of Scanning Light Imaging.

June 7, 2001. Speaker, Arizona State University Computing Commons Lecture Hall. Opening lecture for the “Shells of the Desert” exhibit. (William Sharp coauthor/speaker)

May 25, 2001. Speaker, University of Utah Gould Auditorium. Opening lecture for the “Paper Interiors” exhibit.

March 12-13, 2001. Speaker/Workshop, Microcomputers in Education Conference. “Can the Internet Keep a Personal Touch?”

March 3, 2001. Invited Speaker/Workshop, Arizona Game and Fish Department Retreat. “Scientific Data Presentation: tips and techniques.”

December 1, 2000. Presenter, Arcadia Neighborhood Learning Center, “The Secret Life of Biologists and Biology in 3-D.”

November 24, 2000. Speaker, Arizona Science Center. Opening lecture for the “Face of Paper II” exhibit. (Gene Valentine coauthor/speaker)

March, 2000. Presenter SEE ASU: two day open house, “Ask A Biologist Web Project.”

August, 2nd 2000. International Hand Paper Makers and Paper Artists Conference, Chiusi, Italy. Confocal Microscopy and Paper Interiors (Gene Valentine coauthor/speaker).

March, 1999. Presenter SEE ASU: two day open house, "Ask A Biologist Web Project."

November, 1999. Speaker, Arizona State University Computing Commons Lecture Hall. Opening lecture for the "Face of Paper" exhibit.

March, 1998. Presenter SEE ASU: two day open house, "Ask A Biologist Web Project."

March, 1998. Invited Speaker, Arizona Imaging and Microanalysis Society. "ASU Ask A Biologist Web Project: extending virtual contacts."

October, 1997. Presenter, Desert Vista High School, topic of "Cell Biology."

March, 1997. Presenter SEE ASU: two day open house, "Ask A Biologist Web Project."

October, 1997. Speaker/Workshop, State Convention of Arizona Science Teachers Association. "ASU Ask A Biologist Web Project."

May, 1997. Invited Speaker, CLAS Saturday Scholars Lecture, "Bioimaging in the 21st Century."

May, 1996. Presenter, Hidden Hills Elementary Young Scientist's Day, "Scientific Illustrative Photography."

April, 1989. Speaker, 4th Annual Tontozona Conference, "Scanning Light Microscopy: Uses in Biological Applications."

January, 1989. Poster Session, ASCB annual meeting, San Francisco, "A quick-freeze, deep-etch analysis of the extracellular matrix of *Xenopus laevis* Oocytes before and after meiotic maturation."

November, 1987. Poster Session, ASCB annual meeting, St. Louis, "Signal transduction in neutrophils: the chemotactic peptide-generated calcium signal consists of three distinct phases."

November, 1985. Poster Session, ASCB annual meeting, Atlanta, "The vitelline layer of the sea urchin egg: structural modifications during fertilization as seen in stereo electron micrographs of deep-etched, rotary shadowed eggs."

WEB PROJECTS

The Paper Project. 1999- . Research and educational outreach project dealing with the analysis of historic and handmade papers using non-destructive scanning laser confocal microscopy. <http://paperproject.org>

Ask A Biologist. 1997- . An outreach project for K-12 schools. Including question form, biologist profiles, research profiles, borrow a biologist, image gallery, and image guessing game. Web address: <http://askabiologist.asu.edu>

Undergraduate Research Virtual Poster Symposium. 1997-. A virtual version of the annual symposium. Including abstracts and full poster presentations on the web. Web address: <http://lifesciences.asu.edu/ubep2006/>

ASU Life Sciences Web Site. 1996-. Development of the life sciences web server, the web site, and on-line life science class media. Web address: <http://lifesciences.asu.edu/>

GRANTS

2001-2003 Co-PI, NSF - GK-12 Down to Earth Science grant. Three year \$724,000 grant for graduate and undergraduate learning enrichment program.

2001-2002 Institute for Studies in the Arts. \$12,000. Grant for the *Paper Interiors* dance performance project.

1997-99 Co-PI, William M. Keck Foundation. Three year \$750,000 instrument grant.

1996 Internal grant funds from ASU Howard Hughes Program. \$8,000 for web server.

CONSULTING

- 1998-2000 Motorola, Phoenix Corporate Research Laboratories
1997-1999 Prentice Hall Publishing, Biology Division. Anatomy and Physiology web media.
1996-1997 McDonnell Douglas Helicopter/Boeing Aerospace. Scanning-laser confocal microscopy.
1995 Intel Corporation. Scanning-laser confocal microscopy.

SHOWS

- 2008 "Mercy: A Roy Orbison Pilgrimage." Commissioned Piece (Whirligig). January 25 - April 18, 2008.
- 2006-2008 "Nikon Small World Exhibit Tour." Exhibited in 17 cities between December 2006 and January 2008.
- 2006-2007 "Fiberscapes." Paper Discovery Center. Appleton, Wisconsin. September 19th - December 30th, 2006. (Held over by popular demand to May 31, 2007)
- 2005 "Being Human" Arizona State Museum of Anthropology. November 8, 2005 - January 31, 2006.
- 2005 "Jeeper Creepers: Bugs in Art." Arizona Museum for Youth. February 18, 2005 - August 28, 2005.
- 2004 "Herberger Art Walk Juried Exhibition." Arizona State University. November 6, 2004.
- 2004 "Nikon Small World Exhibit Tour." Debut Times Square New York. October 7, 2004. Exhibited in 17 cities between December 2004 and January 2006.
- 2004 "Show of Color." Paper Project Interactive Room Installation. Arizona Museum for Youth. October 7, 2004 - January 28, 2005.
- 2003 "Inaugural Herberger Art Walk Juried Exhibition." Arizona State University. November 1, 2003.
- 2002 "Paper Interiors: a dance exploration of real and virtual dimensions." ASU Drama City. March 14 & 15.
- 2001 "Shells of the Desert." Computing Commons Gallery, Arizona State University. June 1 - July 27.
- 2001 "Paper Interiors." J. Willard Marriott Library Special Collections Gallery, University of Utah. May 17 - July 5.
- 2000-2001 "Face of Paper II." Arizona Science Center, Phoenix Arizona. November 24 - February 15.
- 2000 "A To Z: Art By The Letter" Arizona Museum for Youth, Mesa Arizona, June 16 - January 5.
- 2000 "SCHOOL OF ART: A Curriculum-based Exhibit." Arizona Museum for Youth, Mesa Arizona, February 18 - May 26.
- 1999 "Face of Paper." Computing Commons Gallery, Arizona State University. November 4 - December 17
- 1999 "A New Light on Paper." 27th Conference of the Southern Graphics Council. School of Art, Arizona State University. March 17 - 21
- 1990 "Artifax: A Fax Art Show." Alwun House Gallery, Phoenix Arizona. May 4 - June 3.
- 1988 "5th Exotic Art Invitational Exhibition" Juried show, Alwun House Gallery, Phoenix Arizona. February 26 - March 27.
- 1987 "The Other World: the art of science" In addition to exhibiting, also curated this exhibit. Alwun House Gallery Phoenix, Arizona. March 28 - April 18.

- 1987 "4th Exotic Art Invitational Exhibition." Alwun House Gallery, Phoenix Arizona.
February 14 - 28.
- 1986 "3rd Exotic Art Invitational Exhibition." Alwun House Gallery, Phoenix Arizona.
February 14 - March 14.
- 1984 Arizona Artists Program. Chosen works traveled in a show presented at both Democratic
and Republican Conventions.
- 1984 "80's Photography." Alwun House Gallery, Phoenix Arizona. December 7 - 28.
- 1983 "Triple Focus On Photography." Fine Arts Center of Tempe. September 11 - October 1.