

2005-2004 Publications

Conference Presentations & Publications

Refereed Poster Presentation: **H. Stech, K. Lenz, and G. Host**. "Image Processing Techniques for Calibrating and Testing Canopy Light Interception Models", The 4th International Workshop on Functional-Structural Plant Models June 7-II, 2004, Montpellier, France.

Refereed Conference Proceedings: **G. Host, K. Lenz, and H. Stech**. "Mechanistically-based Functional-Structural Tree Models for Simulating Forest Patch Response to Interacting Environmental Stresses," 4th International Workshop on Functional-Structural Plant Models June 7-II, 2004, Montpellier, France, (C. Godin, et al, editors) 150-153, 2004.

Ronald T. Marchese, Professor of Ancient History and Archaeology, Department of Sociology and Anthropology: Books In Press: "Splendor and Spectacle: The Armenian Orthodox Church Textile Collections of Istanbul," principal author (Qitlembik Ltd., Istanbul) - 2005.

Forthcoming: "Images of the Divine: Sacred Embroideries from the Armenian Patriarchate in Istanbul" **Ronald Marchese** with **M. Breu** in Vivarium in Context, Pozzo Publishers, Vicenza Italy, December, 2005, pp. 1 - 40 plus 61 illustrations).

"The Armenian Patriarchate in Istanbul", **Ronald Marchese** with **M. Breu** in Logos: A Journal of Catholic Thought and Culture, Vol. 7, Number 2 (Spring, 2004), 86 - 100.

Web Page Publications: "Testimonies of Splendor: Religious Textiles from the Armenian Churches of Istanbul, Turkey" **Ronald Marchese** with **M. Breu**, Western Michigan University, Kalamazoo, Michigan http://www.geocities.com/breu_marchese/

Physiol. Genomics (August 2, 2005). doi:10.1152/physiolgenomics.00076.2005 "Digital transcriptome analysis indicates adaptive mechanisms in the heart of a hibernating mammal." **Katharine M Brauchi , Nirish D Dhruv , Eric A Hansel, and Matthew T Andrews** Biology, University of Minnesota Duluth, Duluth, Minnesota, USA Computer Science, University of Minnesota Duluth, Duluth, Minnesota, USA.

George E. Host, Ph.D. Director, Natural Resources GIS laboratory, Natural Resources Research Institute.

Web Page Publication: "Flash Flood for DuluthStreams. Modeling and visualization of urban stream response to rain events" with **Nick Zlonis**, UMD, featuring Flash animation of flash floods <http://www.duluthstreams.org/stormwater/simulation.html>

Poster presented at the annual Geological Society of America meeting: Goodge, J., Finn, C., Damaske, D., Abraham, J., Moeller, H.-D., Anderson, E., Roland, N., **Goldmann, F., Braddock, P.**,

and Rieser, M., 2004, Crustal structure of Ross Orogen revealed by aero magnetics and gravity, Geological Society of America Abstracts with Programs, v. 36, no. 5, p. 495.

Effects of Field Orientation on the Driven Lattice Gas, **Paul D. Siders**, Journal of Statistical Physics, 119(3-4), 861-880, May 2005.

Riker-Coleman, K.E, Gallup, C., Webster, Cheng, H., Burr, G. Potts, D., Silver, E., Wallace, L., Edwards, R.L. Documentation of carbonate platform drowning during MIS 4 in the Huon Gulf, Papua New Guinea, Eos Trans. AGU, v. 85 no. 46, Fall Meet. Suppl., Abstract PPI3A-0585, 2004. Poster presented at annual fall meeting of the American Geophysical Union 13-17 December 2004, San Francisco, CA.

Hansen, V.L., 2005, New observations of crustal plateau surface histories and implications for crustal plateau hypotheses: Lunar and Planetary Science Conference XXVI, 2000.pdf. [conference abstract and poster presentation]

Lang, N.P. and Hansen, V.L., 2005, Venusian channel formation through subsurface processes: Lunar and Planetary Science Conference XXXVI, 2320.pdf. [conference abstract and poster presentation]

McDaniel, K. and Hansen, V.L., 2005, Circular lows, a genetically distinct subset of coronae?: Lunar and Planetary Science Conference XXXVI, 2367.pdf. [conference abstract and poster presentation]

Lang, N .P. and Hansen, V.L., 2005, Geologic Map of Greenaway, V-24, Venus; NASA-USGS Mappers' Meeting, Smithsonian, Washington D. C. [conference abstract and poster presentation]

Hansen, V.L., 2005, Geologic Map of Niobe Planitia, V- 23, Venus; NASA-USGS Mappers' Meeting, Smithsonian, Washington D.C. [conference poster presentation]

Lopez, I., and Hansen, V.L., 2005, Geologic Map of Helen Planitia, V-52, Venus; NASA-USGS Mappers' Meeting, Smithsonian, Washington D. C. [conference poster presentation]

The Measurement of the fluorescence detected circular dichroism (FD CD) from chiral Eu (III) complexes: **James P. Riehl, Gilles Muller, and Françoise C. Muller**: Presented at the 24th Rare Earth Research Conference, Keystone, CO June 26-30, 2005

Robert Appleton, Art + Design, was acknowledged as an "International Great Master of Graphic Design" in February 2005 by Alliance Graphique Internationale. He was asked to submit a monograph to be published later this year.

Anthony Rostvold, Kai Salmela, Robert Appleton, Catherine Ishino, Art + Design. May 27, 2005. Lake Superior Advertising Federation. "Global Communication through Design." Reporting on

recent design presentations and exhibits in Turkey and China featuring works produced in the Viz Lab.

E.T. Brown, R. Braucher, D.L. Bourles, H.D Mooers "Cosmic Ray Exposure Dating of the Western Margin of the Laurentide Ice Sheet: Implications for Ice Flow Reorganization" Proceedings of the 32nd International Geological Congress, Florence, Italy, August 2004.

T. C. Johnson: "The Freshwater Inland Seas of East Africa: Archives of Global Climate Change." This was presented at the Coalition for National Science Funding, congressional presentation in Washington, DC, June 22 2004, showcasing lakes research on behalf of the American Society of Limnology and Oceanography.

Breckenridge, A. and T. C. Johnson. 2005. "Paleohydrology of Lake Agassiz and the Upper Great Lakes from 10,700 to 8,800 cal ybp [9,500-7,900 14C ybpl. " Canadian Quaternary Association Biennial Meeting, Winnipeg, Manitoba.

Gingery, A., Karst, M., and Oursler, M.J. "PI3 Kinase Has Divergent Impacts on Osteoclast Survival Depending on TGF β Levels During Differentiation." In: 26th Annual Meeting of the American Society for Bone and Mineral Research, Seattle, WA 2004, pp M 319. Poster presentation and published abstract.

A. Gingery, M.C. Wilkes, E. B. Leof, M.J. Oursler "TGF β Promotes Survival through Activation of Smad Independent Signaling." In: 27th Annual Meeting of the American Society for Bone and Mineral Research, Nashville, TN 2005. Poster presentation and published abstract.

Douglas Dunham, Computer Sciences. Three of my mathematical art prints were exhibited at the Art Exhibit of the Annual Joint Mathematics Meetings of the AMS and MAA. January 5-8, 2005, Atlanta, Georgia. Currently, (September, 2005) a mathematical mural is being painted in the new Science Visualization and Digital Imaging Lab 22 Center at Manchester College, Indiana. One of my patterns will be the centerpiece for that mural.

Dunham, D. "The Family of 'Circle Limit III' Escher Patterns" in the Art+Math=X International Conference Proceedings, pages 56-60, June, 2005, Boulder, Colorado.

Dunham, D. "H.S.M. Coxeter and Tony Bomford's Colored Hyperbolic Rugs" in the Bridges 2005 Conference Proceedings, pages 497-504, July, 2005, Banff, Canada. ISBN 0-9665201-6-5; ISSN 1099-6702

Rocio Alba, Fernando Rios and Design Workshop Students. "Mobile Autonomous Robotic Vision -aided Intelligent Navigator," Presented at the Techfest, UMD, Duluth, MN, April 1, 2005.

"The Armenian Patriarchate in Istanbul", with **M. Breu** in Logos: A Journal of Catholic Thought and Culture, Vol. 7, Number 2 (Spring, 2004), pp. 86 - 100.

Exhibits

Cecilia Ramón Dia de Muertos en El Colegio, Buenos Aires, Argentina in November 2005

The Viz Lab coordinated a 3D printing demo from NRRI in conjunction with "Contemporary Art & Mathematical Instinct" at the Tweed in Fall 2003. Italian American Festival 2004: The Viz Lab facilitated print production for the associated art show in Palermo, Italy and Duluth.

Catherine Ishino (Art + Design): DVD "WW2: Voices of Remembrances, 12 family stories" oral histories of my relatives' experiences of their internment experience, produced in the Viz Lab has been 'ascended' into the archives of 3 libraries: 1) the Japanese American National Historical Museum, Los Angeles Spring 2005; 2) the Michigan Historical Museum, Lansing, Michigan-February 2005: a) ALSO there was a touch screen kiosk made of my DVD and is on exhibition in their museum now and until the end of summer, with a group exhibition called "Movers and Seekers: Michigan Immigrant Experiences"; 3) Michigan State University's Asian American Center purchased a DVD for their library and archives.

Robert Appleton (Art + Design): Results of my Viz Lab research include acceptance of poster work created there into the San Francisco Museum of Modern Art, print works for my one person show at Tweed in Fall 2003, sound works presented on the design@ umd 2004 website, and the screening of a video documentary created jointly with professor Catherine Ishino at the University of the Arts in Philadelphia in January 2004.

Suz SZUCS (Art + Design), 2004 presented "Road Work: Deer Project" at Soap Factory, Minneapolis, MN; Fotowerk, Flatfile Contemporary, Chicago; Arrowhead Biennial, Duluth Art Institute; "Seven Deadly Sins," Duluth Art Institute, Duluth, MN; "Absence," Flatfile Photography, Chicago; "Perspectives From America," Palermo, Italy

"All Together Now," Art + Design Faculty Exhibition, Tweed Museum of Art October 19-December 19, 2004 This exhibition presented the work (produced in the Viz Lab) of faculty members and graduate students, including **Robert Appleton, Steve Bardolph, Sarah Bauer, Phil Choo, Alyce Coker, Jennifer Gordon, Catherine Ishino, Ida Kumoji, Janice Kmetz, Vicki Lehman, Sandy Pederson, Joellyn Rock, Anthony Rostvold, Peter Stevenson, Eun-Kyung Suh, Mariana Wiesman and Rob Wittig.**

Anthony Rostvold, Kai Salmela, Robert Appleton (Art + Design). Mimer Sinon Guzel Sametlar University, (Fine Arts University) Istanbul, Turkey, May 2-7,2005. Grafist 9 International Graphic Design Seminar. Workshops and Exhibition: "Graphic Projections on Beyoglu" featured works produced in the Viz Lab.

Sarah Chokyi Bauer, (Art + Design) 2004-05, "Above Is Below" two-person, site-specific installation, The Minneapolis Institute of Arts, MN, refereed (catalogue) 2005, the prayingproject, Exit Art, New York City, NY performance, curated.

Performances

Roger Hanna, Guest Scenic Designer. Kiss Me, Kate. UMD Theatre production October 2005

Italian American Festival 2004: video production for the "Big Band Show the Italian American Crooners" was done in the Viz Lab by **Bill Payne, Catherine Ishino and a team of undergraduate student videographers**. The Viz Lab facilitated the musical composition of the original score for "The Secret of the Talking Bird" by Louis Dunoyer de Segonzac, as well as digital images in the set (see Karen Hoffman). Kate Maurer, Dramaturg, recorded and edited "La Traviata" for archival purposes in the Viz Lab. The set for "Guys and Dolls," as well as "La Traviata" were designed by Arden Weaver in the Viz Lab.

Eun-Kyung Suh (Art + Design), created her first screen/set design for a theatrical production from the Visualization and Digital Imaging Laboratory. The title of performance is Lost and Found, which will be performed by Francine Conley, a Minneapolis-based artist and professor at the College of Saint Catherine, St. Paul. "Lost and Found" is a multimedia production that presents a cast of characters who, as the title suggests, have lost something or are themselves somehow displaced. It was performed at the Center for Independent Artists in Minneapolis from April 8 - 17, 2005.

Robert Appleton (Art + Design), arranged for award-winning New York Avant Garde artist/composer Fast Forward to direct his "Feeding Frenzy" in Duluth, November 21, 2004 with the resources and assistance of Viz Lab staff. "Feeding Frenzy-a celebration of food" is a 90 minute event which involves simultaneous activities by 5 chefs, 5 musicians, and 5 waiters. While music is created by the five musicians, five separate food courses are prepared and served to the audience. The actions of the chefs and musicians are amplified to create a sonic landscape and live video of the event is projected on a screen within the space.

Karen Hoffman (Theatre) "The Secret of the Talking Bird": 1. Use of computers in collaboration with students from graphic design, Bret Peterson and Jackie Menth, for production of computer graphic projection images which were projected onto scenery; 2. Use of Proxima projector for the run of "The Secret of the Talking Bird."

Karen Hoffman (Theatre) "Heidi Chronicles": Our student designer, **Emily Bloudek**, used Viz Lab resources to print images that we used for properties design for this Theatre production, Fall 2004. I also used the Viz Lab to help prepare images for entrance into the World Stage Design Exhibition, March, 2005.

Mark Harvey (Theatre Sound Design), Student sound designers using Viz Lab resources for shows: "Twelve Angry Men," "Prometheus Bound," "String," and "The Heidi Chronicles."

Bill Payne (Theatre), "50/50: The American Electoral Divide "-currently being edited with a completion date set for Fall 2005, Sponsored by The American Democracy Project-VCAA, UMD and the SFA. "Raising Children with FASD: A seminar with John Hays "-currently being completed tentative date, Fall 2005. Video Scenery for "Prometheus Bound"-Presented Feb. 10-19,2005 in the Marshall Performing Arts Center, UMD. Video Scenery Library-ongoing, more processing of raw footage for the library to take place during Spring Semester, 2005.

Rudy Perrault (Music). The following DVD concerts have been edited and produced at the Viz Lab lab: "Arabian Nights" ... The UMD Symphony Orchestra performed music of Berlioz, Rimsky-Korsakov, Saint-Saens. Storytellers Julie Della Torre and Elizabeth S. Nordell were also featured on that Concert. This event took place in Weber Music Hall on November 5, 2004.

"A Little night music" ... **The UMD Chamber Orchestra** performed music of Mozart, Jaegerhuber, Shostakovich and D'Rivera. This performance took place in Weber Music Hall on December 3, 2004.

"Gloria" All ensembles from UMD Department of Music performed on a joint concert. The performance took place in Weber Music Hall from the 10th to the 12th of December. This DVD will be used to promote the Music Department at the 2005 MN Music Educators Association Conference in Minneapolis from the 17th to the 19th of February, 2005.

"UMD Chamber Orchestra on Tour." This DVD features the **UMD Chamber Orchestra** on Tour and in their final performance at the Alvord Auditorium in Ashland, Wisconsin. "Haiti Benefit Concert." This DVD features the Friends of Haiti Orchestra (**Jean R. Perrault**, conductor) in their benefit concert at the First Congregational Church of Christ in Appleton, Wisconsin. This performance took place on the 13th of February, 2005.

Films

Bill Payne, Director. Pathways to Understanding: Raising Children with Fetal Alcohol Spectrum Disorder: A Seminar with John Hays. Premiered in Duluth October 2005. National distribution of DVD.

Heaven explores the myth of the artist through the cool, provocative, controlled, and quietly influential world of painter Philip Pearlstein. <http://notmadeinheaven.ubfilms.com>

Justin Rubin, "La Zarabanda"-abstract film produced in Viz Lab. Visual Music Marathon April 28, 2007, Northeastern University, Boston, MA Over 300 works from 33 countries were submitted to the Marathon. Of these, 64, representing 6 hours of programming, were selected for screening. www.music.neu.edu/vmm

"50/50: The American Divide"--**William Payne**, Director, **Zachary Swanson**, Videographer.
Premier Tuesday, March 20th, 2007 at the HHH Institute of Public Affairs, Minneapolis, MN

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