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## PRELIMINARY PROGRAM NACIS XVII

### *The Seventeenth Annual Meeting of the North American Cartographic Information Society*

Visit our program web site at <http://leardo.lib.uwm.edu>

**Oct. 1-4, 1997**  
**Lexington, Kentucky**

**WEDNESDAY, OCTOBER 1, 1997**

**3:00 - 5:30 p.m.**  
**NACIS BOARD MEETING**

**3:00 - 7:30 p.m.**  
**REGISTRATION**

**7:30 - 9:00 p.m.**  
**OPENING SESSION**

Keynote Speaker: Karl Raitz, University of Kentucky  
*Kentucky's Place and Patterns*

**9:00 - 11:00 p.m.**  
**POSTER SESSION/EXHIBITS AND RECEPTION**  
Organizer: Donna Schenstrom, Univ of Wisconsin - Milwaukee

**THURSDAY, OCTOBER 2, 1997**

**8:00 - noon**  
**POSTER SESSION/EXHIBITS**  
Organizer: Donna Schenstrom,  
Univ of Wisconsin - Milwaukee

**8:30 - 10:00 a.m.**

**A. PLENARY SESSION PANEL DISCUSSION:**  
**SOFTWARE FOR DESIGNING PUBLICATION-QUALITY MAPS:**  
**WHERE ARE WE NOW & WHAT**  
**CAN WE HOPE FOR?**

Organizer and chair, Anne E. Gibson, Clark Univ.  
Participants: David DiBiase, The Pennsylvania State Univ.; Mark  
Mattson, Temple Univ.; Charlie Frye, ESRI;  
and others.

**10:30 - 12:00 a.m.**

**B. PAPER SESSION**  
**DESIGNING MAPS WITH TODAY'S TECHNOLOGIES**

*Producing high-quality maps from GIS data:*  
*the Water Resources Atlas of Florida;*  
James R. Anderson, Jr. & Louis Cross, Florida State Univ.

*Problems of cartographic design in GIS-T;*  
R. Gordon Kennedy, Washington State DOT

*Using Adobe Acrobat PDF technology to support multiple*  
*map designs, map formats, & media*  
Scott C. Wilcox, U.S. Bureau of the Census

## C. PAPER SESSION

## THEORETICAL ISSUES IN CARTOGRAPHY &amp; COGNITION

*Cartographic metaphors for browsing very large data archives;*

Barbara P. Buttenfield, University of Colorado

*An examination of various neural network models for use in geographic visualization;*

David K. Patton, Slippery Rock Univ. of Pennsylvania

*Criteria of formalization of the process of feature selection;*

Georg Gartner, University of Technology Vienna

12:30 - 2:00 p.m.

## LUNCHEON AND ANNUAL BUSINESS MEETING

2:00 - 6:00 p.m.

## FIELD TRIPS AND TOURS

• *Kentucky Natural Resources & Environmental Protection Cabinet's GIS Branch, Frankfort* •

The oldest GIS agency in state government will demonstrate some of its recent applications and conduct a tour of the office (includes a visit to the Kentucky Vietnam War Memorial).

• *PlanGraphics, Inc., Frankfort* •

A leading international consultant and systems integrator of geographic information systems and information technology. PlanGraphics' headquarters is in Frankfort, with regional offices located in Maryland, Texas, Colorado, Arizona, and the Middle East (includes a visit to the Kentucky Vietnam War Memorial).

• *Labrot & Graham bourbon distillery* •

Labrot & Graham has been restored to its 1840s operating condition and produces bourbon using the original Scottish "pot still" method.

• *Self-guided walking tour of downtown Lexington* •

7:30 - 9:00 p.m.

*Map Collectors' Show and Tell*

An informal gathering where collectors of maps of all sorts are invited to discuss and show examples (maybe even negotiate some trades?) of their collections with similarly-addicted souls. Hosted by Pat Gilmartin, Univ. of South Carolina.

FRIDAY, OCTOBER 3, 1997

8:00 - noon

POSTER SESSION / EXHIBITS

Organizer: Donna Schenstrom, Univ. of Wisconsin - Milwaukee

8:15 a.m. - 9:30 a.m.

## D. PANEL DISCUSSION

REVISE & RESUBMIT: THE FUTURE OF CARTOGRAPHIC RESEARCH PUBLICATIONS

Organizer and chair, Cynthia A. Brewer, The Pennsylvania State University

## E. PANEL DISCUSSION

IS THE VIRTUAL MAP LIBRARY IN SIGHT?

Organizer and chair: James O. Minton, University of Tennessee - Knoxville. Participants: Christopher Baruth, AGS Collection; Denise Stephens, University of Virginia - Charlottesville; John Sutherland, University of Georgia.

10:00 - 12:00 a.m.

## F. PAPER SESSION

MAP PRODUCTION AND DESIGN ISSUES

*The UO InfoGraphics Lab experiment: an organic approach to cartographic problem-solving and research facility development;*

James E. Meacham, University of Oregon

*Staircase locks 3-D model;*

Claudia James and Joseph W. Stoll, University of Akron

*Abstracting reality: making guidebook maps;*

Ren Vasiliev, Geneseo, NY

*Rapid transit system maps;*

Dennis McClendon, Chicago CartoGraphics

## G. PAPER SESSION

INTERACTIVE SOFTWARE IN THE CLASSROOM

*The virtual internship: an application of the narrative form in computer-assisted learning;*

David DiBiase, The Pennsylvania State University

*An interactive multimedia geography lesson for dyslexic students;*

Alison E. Philpotts, Michigan State University

*Cartography, GIS and the Web;*

Jeremy Crampton, George Mason University

*Perspectives on integrating interactive cartography into an introductory human geography course;*

Charles P. Rader, University of Wisconsin - River Falls

12:00 - 1:30 p.m.

LUNCH BREAK

*Editorial Board Meeting, Cartographic Perspectives*

1:30 - 3:00 p.m.

## H. PAPER SESSION

MAPPING ON THE WORLD WIDE WEB

*Interaction, animation, multimedia, visualization, and the Web: mapping out a "New Cartography;"*

Michael P. Peterson, University of Nebraska - Omaha

*VRML: three-dimensional mapping on the Web;*  
James M. Swanson, University of Nebraska -Omaha

*Shocking the map: using Shockwave to create interactive maps for the World Wide Web;*  
Rex Cammack, Southwest Missouri State University

#### I. PAPER SESSION

##### EVALUATING CARTOGRAPHIC ELEMENTS

*Revisiting the poly-centered orthographic world projection: changes and revisions, and the importance of shape;*  
Bordon D. Dent, Georgia State University

*Visualizing flow lines through time: a comparison between animated and chess maps;*  
Harry Johnson & Elisabeth Nelson, San Diego State Univ.

*An evaluation of motion in the recall of landmarks from an animated map display;*  
Keith Rice & Aaron Weier, Univ. of Wisc. Stevens Point

3:30 - 5:00 p.m.

#### J. PAPER SESSION

##### PRODUCING MAPS WITH TODAY'S TECHNOLOGIES

*Constructing surface cartograms using ArcInfo;*  
Nikolas H. Huffman and David A. J. Ripley,  
The Pennsylvania State University

*Combining raster imagery and vector data to produce geologic maps;*  
B. J. Stiff, Illinois State Geological Survey

*GPS/GIS integrated systems to benefit all phases of aircraft navigation;*  
Ronald M. Bolton, NOAA

#### K. PAPER SESSION

##### CARTOGRAPHY: PEDAGOGY & ANALYTICAL APPLICATIONS

*Lessons from past masters: a pedagogical tribute to the late Robert C. Kingsbury and John C. Sherman;*  
Peter R. Galvin, Indiana University Southeast

*Virtual cartography instruction: current status and developments;*  
Paul S. Anderson, Illinois State University

*Cartography of disturbed landscapes in regions;*  
Felix N. Ryansky, Far-Eastern Branch of Russian Academy of Sciences

#### L. POSTSCRIPT MAPPING ROUNDTABLE.

Organizer and chair, Dennis McClendon,  
Chicago CartoGraphics.

3:30 - 5:30 p.m.

NACIS BOARD MEETING

6:30 - 10:00 p.m.

#### ANNUAL NACIS BANQUET

Guest Speaker, John Pickles, University of Kentucky

SATURDAY, OCTOBER 4, 1997

9:30 - 11:30 a.m.

#### M. PANEL DISCUSSION

##### MAPPING ON THE WEB:

##### THE INTERNATIONAL DIMENSION

Organizer and chair: Michael Peterson, University of Nebraska - Omaha. Participants: William Cartwright, Royal Melbourne Institute of Technology; Georg Gartner, Technical University - Vienna; Michael Peterson, University of Nebraska - Omaha

#### N. PAPER SESSION

##### MAPPING THE WORLD FOR CHILDREN

*An analysis of pre-school children's mapping abilities in a familiar environment;*  
Amy Lobben, Michigan State University

*American images of the world: nineteenth century school atlases;*  
Jeffrey Patton, University of North Carolina - Greensboro

*Searching for maps that bridge reality and thought in geographic education;*  
Henry W. Castner, Pittsboro NC

*The ICA/Petchenik Children's Map Competition: exploring ways of linking it to the curriculum;*  
Henry W. Castner, Pittsboro NC

#### WORKSHOPS

8:30 - noon

*Photoshop f/x for Cartographers*  
Tom Patterson, National Park Service

8:30 a.m. - 4:30 p.m.

*Thematic and Interactive Mapping with ArcView*  
Charlie Frye, Environmental Systems Research Institute

#### SATURDAY AFTERNOON ACTIVITIES

• Keeneland Race Course • Kentucky Horse Park •  
• Shaker Village of Pleasant Hill •

### Hotel Information

NACIS XVII will be held at the  
Radisson Plaza Hotel, Lexington, KY  
The hotel is located at 369 W. Vine Street.

Reservations can be made by calling the hotel at (606) 231-9000 or Radisson reservations at 1-800-333-3333. Be sure to specify that you are attending the NACIS Conference.

• Room rates: \$99 for single or double •