

elements based on either unique values or a user-controlled value range.

- Automated scale conversion from native co-ordinate system to various traditional scales.
- JAMBuddy export replaced with new pdfPLUS export.
- Correction of several legacy problems with previous versions.

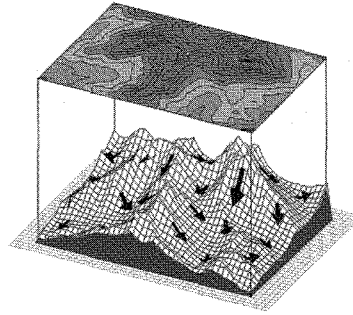
For further information please contact Avenza at (905) 639-3330, [info@avenza.com](mailto:info@avenza.com) or visit the company's website at <http://www.avenza.com>

### Surfer® Version 7 Golden Software, Inc.

Golden Software, Inc. announces the release of Surfer(r) version 7, a contouring and 3D mapping software package with variogram modeling capabilities. Surfer is a 32-bit program and operates under Windows 95/98, NT 4.0, or higher. It accurately transforms XYZ data into contour, wireframe, vector, image, shaded relief, base, and post maps.

Vector maps are a new map type in Surfer. They instantly show the orientation and inclination of a slope with scaled vectors. Referring to the seven map types available in Surfer, combined with the ability to overlay different map types, Patrick Madison, the President of Golden Software, says that Surfer "has proven to be very versatile in the customization of data presentation."

New, sophisticated gridding filters in Surfer allow the user to accurately grid XYZ data and to easily exclude unwanted or duplicate data when creating grid files. Variogram modeling has been added to help spatially assess the data and to choose the most accurate gridding method for the specific data. A report of gridding parameters and statistics is automati-



Create and overlay any number of maps in Surfer. In this example, a vector map is overlaid on a 3D wireframe map with a contour map.

cally generated when data are gridded.

Surfer 7 supports more file formats. The list of export options in Surfer now includes SHP, PNG, and 3D DXF file formats. Use USGS SDTS DEM and DLG files in their native formats in Surfer. SDTS DEM files are treated as any other grid file and any grid operation can be performed on the SDTS DEM file.

The new macro system makes the automation of repetitive tasks easier and more versatile in Surfer. Use Visual Basic, C++, Perl, or any ActiveX Automation compatible language to write scripts. Other improvements to the user interface include an object manager, tabbed dialog boxes, and floating toolbars.

A free, full working demo is available on the web page. Contact Golden Software for more information on Surfer version 7.

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## NACIS news

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**PRELIMINARY PROGRAM NACIS XIX**  
*The Nineteenth Annual Meeting of the  
North American Cartographic Information Society*  
*www.nacis.org*

**October 20-23, 1999**  
**Williamsburg, Virginia**

**WEDNESDAY, OCTOBER 20**

**REGISTRATION**  
2:00-7:30 PM

**NACIS BOARD MEETING**  
3:00-5:30 PM

**OPENING SESSION (SPEAKER TO BE ANNOUNCED)**  
7:30-9:00 PM

**POSTER SESSION/ EXHIBITS/RECEPTION**  
9:00-11:00 pm

**THURSDAY, OCTOBER 21**

**Session A HISTORICAL CARTOGRAPHY I**  
8:00-10:00 am

*"A Countrie so Faire" The Mapping of Colonial Virginia*  
Richard Stephenson, Winchester, Virginia

*From Battle Plans to Tourist Maps: The Role of the Federal  
Government in Preserving the Cartographic Heritage of the  
Williamsburg-Yorktown Area*  
Ronald Grim, Library of Congress

*The Promotional Cartography of Captain John Smith*  
John H. Long, The Newberry Library, Chicago

**Session B CARTOGRAPHIC METHOD AND THEORY**  
8:00-10:00 am

*The Basic-level of Cartographic Maps*  
David K. Patton and Anthony B. Spehar, Slippery Rock Univ.

*Visual Perception of Oriented Point Symbols for Mapping*  
Maureen Ann Kelley, San Jose State University

*Color Schemes for Visualizing Climatological and Other  
Continuous Data*

Aileen R. Buckley, Patrick J. Bartlein, and  
Adam Light, University of Oregon

*Feeling it Out: The Use of Haptic Visualization for Exploratory  
Geographical Analysis*

Amy L. Griffin, Dept. of Geography, Pennsylvania State Univ.

**Session C HISTORICAL CARTOGRAPHY II**  
10:30 am-Noon

*Out of bounds, Mapping Over the Edge-A Look at the English  
View of the Middle Atlantic Colonies*  
Alice C. Hudson, Map Division, NYPL