

Welcome to the seventh issue of ESRI Archaeology and GIS News, a newsletter for and about the ESRI Archaeology and GIS User Community.

You are receiving ESRI Archaeology and GIS News because you are involved in archaeological GIS activities, or related fields and interests.

This newsletter is used only to distribute information about the group.

Please use the ONLINE DISCUSSION FORUM on the site for GIS/Archaeology discussions.

To subscribe, unsubscribe, or change your e-mail address, respond to:

bbooth@esri.com

### Top News

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1. ESRI User Conference 2001 Archaeology Highlights.
2. ArcGIS 8.1 Service Pack 1 is Now Released.
3. More Links of Interest
4. Journal of Cave and Karst Studies GIS Issue call for papers.
5. Do You Manage Archaeological Sites With a GIS?
6. Notices of Conferences

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### (1) ESRI User Conference 2001 Archaeology Highlights.

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Approximately 11,500 people attended the 21st ESRI User Conference in San Diego in July. The User Conference featured many workshops and papers on a variety of topics. Of particular interest to Archaeology users were the following sessions in the Ecology, Archaeology, and Conservation track:

GIS at the Archaeological Site

Analyzing & Predicting Archaeological Sites

GIS in Historic Preservation

Historical Landscape Change Analysis

A searchable directory of current papers and other activities can be found at: <http://gis.esri.com/uc2001/agenda/index.cfm>

It's not too early to plan to attend or participate in next year's User Conference. For information and to submit papers visit:

<http://www.esri.com/events/uc/index.html>

More information on the ESRI User Conference can be found at:

<http://www.esri.com/events/uc/index.html>

At the conference, 53 people joined the ESRI Archaeology User Interest Group. Many also attended a lunch hour meeting of the group. Lisa Pierce raised the possibility of members of the group contributing to a Geodatabase data model for Archaeology and Historic Preservation.

If you would like to contribute to this effort, you may be interested in reviewing the Hydrology data model.

Contact Lisa Pierce ([lpierce@esri.com](mailto:lpierce@esri.com)) with your mailing address to request a copy of the Hydro data model on CD for review.

A thread has been set up on the Archaeology User Interest Group Discussion Forum for discussion of a GIS data model for Archaeology and Historic Preservation.

<http://forums.esri.com/forums/Index.cfm?CFApp=87>

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(2) ArcGIS 8.1 Service Pack 1 is now released.

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ArcGIS 8.1 Service Pack 1 is now released.

SP1 is available to existing ArcGIS users from the ArcOnline 'downloads' section. [http://arconline.esri.com/arconline/downloads/ao\\_/SP1.cfm?PID=1](http://arconline.esri.com/arconline/downloads/ao_/SP1.cfm?PID=1)

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(3) More Links of Interest

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GIS/Archaeology Links Wanted – Please send links, scripts, fonts, suggestions, etc. to [bbooth@esri.com](mailto:bbooth@esri.com), thanks!

Green Spring Unit and GIS at Colonial NHP

<http://www.nps.gov/colo/grnspg/gspg1.htm>

Dr. Mark Aldenderfer interviewed on GIS in Archaeology:

<http://www.gisdevelopment.net/interview/ev028.htm>

Other GIS/Archaeology articles indexed on same site:

<http://www.gisdevelopment.net/application/archaeology/index.htm>

New Jersey Historic Preservation Office

<http://www.state.nj.us/dep/hpo/1identify/gis.htm>

[http://www.state.nj.us/dep/hpo/1identify/gis\\_pilot/index.htm](http://www.state.nj.us/dep/hpo/1identify/gis_pilot/index.htm)

Essex register historic/archaeological

<http://www.essexcc.gov.uk/planningandenvironment/historicbuildings/record/what.html>

Scripts:

Distances and Bearings between Features with Common Attribute Values, (v. 1.1)

<http://gis.esri.com/arcscripsts/details.cfm?CFGRIDKEY=9C7F2CEE-ACFA-11D4-943600508B0CB419>

Nearest Features, with Distances and Bearings (v. 3.4)

<http://gis.esri.com/arcscripsts/details.cfm?CFGRIDKEY=9EBF960F-55D1-11D4-943100508B0CB419>

Identify Features Within Distance

<http://gis.esri.com/arcscripts/details.cfm?CFGRIDKEY=453B5250-2720-11D5-943E00508B0CB419>

Polygon theme creation from point theme

<http://gis.esri.com/arcscripts/details.cfm?CFGRIDKEY=285192884>

Grid creation (graphics)

<http://gis.esri.com/arcscripts/details.cfm?CFGRIDKEY=2B4E0737-B972-11D4-943700508B0CB419>

Convert graphics to shapes

<http://gis.esri.com/arcscripts/details.cfm?CFGRIDKEY=1884684694>

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(4) Journal of Cave and Karst Studies  
Special GIS Issue Call for Papers.

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Journal of Cave and Karst Studies GIS Issue

The Journal of Cave and Karst Studies is planning a special GIS issue, scheduled for publication in early 2002. The Journal of Cave and Karst Studies is a refereed, multidisciplinary journal devoted to cave and karst research, and is a publication of the National Speleological Society. The Journal is published 3 times each year. Submissions are now being solicited, and authors may indicate interest or send review copies of submissions (3 copies if hardcopy) to:

Bernie Szukalski, GIS Issue Guest Editor: [bszukalski@esri.com](mailto:bszukalski@esri.com)  
ESRI  
380 New York Street  
Redlands, CA 92373

Louise Hose, Editor: [hose@chapman.edu](mailto:hose@chapman.edu)  
Department of Environmental and Chemical Sciences  
Chapman University  
1 University Drive  
Orange, CA 92866-1005

Papers dealing with any aspect of the application of GIS in cave or karst mapping, research, management, and analysis are welcomed. Please note: the deadline for review copies of manuscripts is September 15.

Guidelines for authors can be found at:  
<http://www.caves.org/pub/journal/Guide.htm>

For more information on the National Speleological Society visit:

<http://www.caves.org>

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(5) Do you manage Archaeological sites with a GIS?

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In order to promote communication between organizations managing archaeological sites with GIS (\*at the landscape and site levels), I've posted the relevant web links that I've found. If you would like to add your organization to this list (or remove it), please contact Bob Booth ([bbooth@esri.com](mailto:bbooth@esri.com)).

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(6) Notices of conferences

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- a) The 7th International Conference on Virtual Systems and MultiMedia
- b) XIVth Congress of the International Union of Prehistoric and Protohistoric Sciences
- c) Archaeologie und Computer
- d) Call for Papers: Chacmool 2001 - An Odyssey of Space
- e) Arthur M. Sackler Colloquium of the National Academy of Sciences

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a) The 7th International Conference on Virtual Systems and MultiMedia

—————FINAL CALL FOR PAPERS—————

The International Society on Virtual Systems  
and MultiMedia and  
The Center for Visualization Design,  
University of California Berkeley presents

The 7th International Conference on  
Virtual Systems and MultiMedia  
VSMM 2001

ENHANCED REALITIES:  
Augmented and Unplugged  
<http://www.vsmm.org/vsmm2001>

25-27 October 2001  
University of California, Berkeley, USA

VIRTUAL HERITAGE COLLOQUIUM  
23-24 October, San Francisco, USA

HOSTS:  
UCB Center for Design Visualization  
International Society on VSMM

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UPDATES <http://www.vsmm.org/vsmm2001>

— NEW VSMM2001 WEBSITE NOW ONLINE

— Author Paper deadline extended until 25 June 2001

— Can't finish your paper in time? Submit an abstract

— New Special Session: Electronic Cultural Atlas Initiative

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#### AUTHOR SCHEDULE

Paper Deadline 25 June 2001

Acceptance Notification 3 August 2001

Manuscript Submission 3 Sept 2001

VSMM Conference: 25-27 October 2001

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#### SPECIAL SESSION ON ECAI: NETWORKED DIGITAL RESEARCH RESOURCES

The Electronic Cultural Atlas Initiative ([www.ecai.org](http://www.ecai.org)) is creating an infrastructure for data discovery by time and location. The paradigm of the historical atlas, showing spatial and temporal relationships among cultural data, and the digital library model of networked distributed resources, together define within ECAI a new approach to collaborative scholarly research. Using time-enabled Geographic Information Systems, ECAI-affiliated research projects are creating interoperable data layers that can be retrieved from globally distributed servers for display on a map-based interface. Data layers can be further linked to text, images, audio, video, or other resources. The ECAI Special Session will foreground speakers on key issues concerning potential for GIS resources in the humanities, such as Virtual Reality and Internet GIS. Presentations by major ECAI-affiliated projects demonstrate the breadth and suppleness of the ECAI infrastructure. Project walk-through sessions, as well as demo sessions by ECAI members, demonstrate the basic ECAI IT architecture and the wide range of technological approaches that individual projects have adapted to the varied demands of humanities research.

#### VIRTUAL HERITAGE

This year will showcase the most innovative work in the field, including new imaging and modeling techniques, large scale terrain modeling, geo-temporal 3D databases, remote sensing and GIS for culture, laser scanning and data capture, object and image restoration and modeling, virtual reality for museums, kiosks and site explanations. Papers accepted will cover a range from technical tools and techniques, to actual site environments that use new techniques for historical re-enactment, storytelling or site reconstruction. Heritage, museum, and cultural officials working with technology are encouraged to submit case studies.

#### SPECIAL VIRTUAL HERITAGE COLLOQUIUM [23-24 October]

sponsored by the Virtual Heritage Network [<http://www.virtualheritage.net>]

For 3 consecutive years VSMM has brought together researchers from around the globe focused on the new field of Virtual Heritage. In response to user demand, a special Colloquium will be held immediately prior to the full conference to debate, explore, and begin to address issues including: international standards and metadata, funding and collaboration, and application of emerging technology. Due to high demand and the need to keep the discussion focused, space will be limited to 25 attendees. To facilitate a productive and

fruitful Colloquium, we hope to select a diverse international cross section of professionals, government officials, and academics from the spectrum of preservation, heritage, culture, museum, computing technology and new media. A short online form will be made available for those wishing to apply to reserve a slot.

- ARCHITECTURAL

Papers exploring advances in applied 3D design and prototyping in the architectural field (as distinct from 3D CAD and CAE), from applications of image-based modeling and rendering, to 3D scanning, applications of Web3D in architectural design and training, virtual design, and the issues of virtual 'placemaking'.

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b) The XIVth Congress of the International Union of Prehistoric and Protohistoric Sciences will be held September 2-8, 2001, in Liège, Belgium.

<http://www.ulg.ac.be/prehist/uispp-home.html>

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c) Dear colleagues,

It is time to plan our next workshop "Archaeologie und Computer. The fifth workshop was great, 140 people from 17 countries. The publications of Workshop 1-4 are now available (3, 4 only on CD-Rom). You can order it:

<mailto:phoibos@webmail.at>

The 6th Workshop "Archaeologie und Computer" will take place  
——November 5th and 6th, 2001 in the Town-hall of Vienna, Austria——

Since now you have the possibility for registration under the email on the bottom of this mail

Submission of abstracts until April 27th 2001

Information about acceptance of your paper until May 18th 2001

Deadline of registration until October 20th 2001

The lesson should be 25 min long and show the output of your work or the development of applications.

Many greetings from Austria

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d) Chacmool 2001 - An Odyssey of Space

November 14th - 18th 2001

Rosza Centre, University of Calgary, Calgary, Alberta, Canada

This is a theme we can have a lot of fun with and which will bring out endless interesting topics. A few potential sessions we have thought of are as follows:

How space is defined - boundaries, enclosures

How space is used - traditional ways in which space is divided into households and communities, as well as working and living space

Public space - plazas, courtyards, domestic vs public, gender utilization

Landscapes - systems such as fields, irrigation etc.  
Archaeoastronomy - Nazca, medicine wheels, Stonehenge etc.  
The Cosmos - space as defined for ideological purposes - how did ancient peoples map out space  
Mapping space - remote sensing, GIS and GPS  
Sacred space - perceptions of space, creation myths, use of space for  
Ceremonials Ancient maritime utilization of space - underwater archaeology, marine archaeology  
The temporalization of space - the relationship between space and time  
Geoarchaeology  
Spatial analysis - history and theory, trends, future  
Ethnographic studies of space  
Spatial data management within CRM  
More ideas, session proposals etc. are welcomed! Or if you want to run with one of the above suggestions, please contact us!

#### Deadlines

Submission of session topics January 15, 2001  
Submission of paper abstracts February 15, 2001  
Send Abstracts to: 2001 Conference Committee, Department of  
Archaeology, University of Calgary, Calgary AB T2N 1N4, Canada; or FAX  
us at 403-282-9567, or email us at [cjcluney@ucalgary.ca](mailto:cjcluney@ucalgary.ca)  
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Phone: 403-220-7131 FAX: 403-282-9567

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e) The Arthur M. Sackler Colloquium of the National Academy of Sciences on “Adaptive Agents, Intelligence and Emergent Human Organization: Capturing Complexity through Agent-Based Modeling” will begin on the evening of Thursday, October 4 and will continue through Friday and Saturday, October 5-6, 2001 at the Arnold & Mabel Beckman Center in Irvine, CA.

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