

Welcome to the eighth 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

1. ESRI Archaeology Web Page Updated
2. Deadline for ESRI User Conference Paper Submissions Nov. 16
3. More Links of Interest
4. Do You Manage Archaeological Sites With a GIS?
5. Notices of Conferences

(1) ESRI Archaeology Web Page Updated

The ESRI Archaeology web page has been updated!

- 1) More sites added to the “Organizations Managing Archaeological Sites with GIS” page. If you have a site you’d like to add to (or remove from) this page, please contact Bob Booth (bbooth@esri.com)
- 2) More links to free ArcView extensions and scripts on the “Tools, Utilities, and Other Software page” that may be of use for archaeological research.
- 3) More links to GIS references that may be of interest.
- 4) Slideshow on GIS for Archaeologists.

(2) Deadline for ESRI User Conference Paper Submissions Nov. 16

The deadline to submit abstracts for the 2002 ESRI International User Conference is November 16, 2001.

Information and submission forms are at www.esri.com/uc

The conference will be held July 8-12, 2002, at the San Diego Convention Center in San Diego, California, USA.

Other User Conference Dates to Remember:

Student Assistantship Application Submission Deadline: April 12, 2002

Software Applications Fair Submission Request Deadline: May 1, 2002

Conference Registration Deadline: May 10, 2002

Map Gallery Submission Deadline: May 16, 2002

Activities Registration Deadline: June 3, 2002

Education User Conference (EdUC): July 5-7, 2002

Preconference Seminars: July 6-7, 2002

(3) More Links of Interest

GIS/Archaeology Links Wanted – Please send links, scripts, fonts, suggestions, etc. to bbooth@esri.com, thanks!

Potomac Corridor Historic Resources IMS:

Connecting Past and Present

Jacquelyn M. Strager and Dan Bonenberger

<http://www.esri.com/library/userconf/proc01/professional/papers/pap674/p674.htm>

Field Testing ARC GRID-Based Archaeological

Probability Models in Jordan

Gary L. Christopherson, Tisha K. Entz

<http://www.esri.com/library/userconf/proc01/professional/papers/pap405/p405.htm>

GIS in Archaeology at Historic St. Mary's City, Maryland (Abstract)

Silas D. Hurry, Jonathan K. Linn, Andy Maracini

<http://www.esri.com/library/userconf/proc01/professional/abstracts/a671.html>

Old to New: State Historical Society of Wisconsin GIS Project

Authors: Anita J. Temple, James Cory, & Puneet Kishor, of GeoAnalytics, Inc.

<http://www.esri.com/library/userconf/proc01/professional/papers/pap299/p299.htm>

Organizing Archaeological Geophysical Survey and Surface Mapping Data in ArcView (Abstract)

Nicholas Tripcevich, Arleen Garcia, Nathan M Craig, Elizabeth Klarich, George Herbst

<http://www.esri.com/library/userconf/proc01/professional/abstracts/a287.html>

Using ArcView for Estimating Volume at Stratigraphically Complex Archaeological Sites (Abstract)

Mark S Aldenderfer, Nathan M. Craig

<http://www.esri.com/library/userconf/proc01/professional/abstracts/a286.html>

Using GIS to Model and Predict Likely Archaeological Sites

Christopher Ohm Clement, Sahadeb De, Robin Wilson Klot.

<http://www.esri.com/library/userconf/proc01/professional/papers/pap651/p651.htm>

What's Eligible Here?

Edith H. Konopka, Kinney E. Clark, and Lyna L. Wiggins

<http://www.esri.com/library/userconf/proc01/professional/papers/pap398/p398.htm>

World Heritage Sites and GIS

<http://www.eng-h.gov.uk/cas/whs/shenge.htm>

Dúchas: Heritage Data Access site. The Heritage Service, Ireland

<http://www.heritagedata.ie/>

Mn/Model Statewide Archaeological Predictive Model
<http://www.mnmodel.dot.state.mn.us/index.html>

Managing Archaeological Surveys through
Geospatial Information
by David Ketz, CEO, The 106 Group
<http://www.106group.com/PDF/pipeline%20article%202.PDF>

THE ROUGH CILICIA ARCHAEOLOGICAL SURVEY PROJECT
<http://pasture.ecn.purdue.edu/~rauhn/>

There are 2 ArcView extensions near the end of Professor Olivera's
web page at the University of Texas: one called vector11.avx and one called raster10.avx.
They do things like clip / mosaic / resample grids and shape files, add xy coordinates to tables, make
Theissen polygons, and more.
<http://www.ce.utexas.edu/prof/olivera/header.htm>

COORDINATE GRID MAKER EXTENSION - 2.240 UPDATE
<http://gis.esri.com/arcscripts/details.cfm?CFGRIDKEY=952359416>

CrimeStat spatial statistics program:
Ned Levine, CrimeStat: A Spatial Statistics Program for the Analysis of Crime Incident Locations (v 1.1).
Ned Levine & Associates, Annandale, VA, and the National Institute of Justice, Washington, DC. July
2000.
<http://www.icpsr.umich.edu/NACJD/crimestat.html>

Slideshow: GIS for Archaeologists
<http://www.esri.com/industries/archaeology/ArchGIS.htm>

Building a Geographic Information System of Ancient Maya Settlement
<http://mayagis.smv.org/>

Digital Archaeology 2001: GIS-Based Excavations in Jordan
Thomas E. Levy, James D. Anderson, Mark Waggoner, Neil Smith, Adolfo Muniz and Russell B. Adams
http://weber.ucsd.edu/Depts/Anthro/classes/tlevy/Class/Ang121/SAA_Article_5_2001.pdf

J. Patrick Moore (1988)
Building a Baseball Stadium Using GIS
<http://www.integralgis.com/P336.HTML>

Mapping the Minoan Living Surface Using
GPR, GPS and GIS
By Wayne Geary & Patrick Moore (1999)
<http://www.integralgis.com/santorini.PDF>

Historic Environment Information Resources Network
www.britarch.ac.uk/HEIRNET

Measuring the Facing Aspect of Archaeological Sites: Traditional and GIS Methods Compared (Summary of Poster Presented at the Society for American Archaeology Meetings, Philadelphia, Pennsylvania. 6 April 2000)

<http://www.geocities.com/amickels/saa2k/main.html>

FISH conference See October section of list:

<http://www.jiscmail.ac.uk/lists/fish.html>

CIDOC Conceptual Reference Model

<http://cidoc.ics.forth.gr/index.html>

Avenue Dialog to VBA Form

<http://gis.esri.com/arcscripts/details.cfm?CFGRIDKEY=E1A98D29-B3AB-11D5-944B00508B0CB419>

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

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).

(5) Notices of conferences

- a) FISH e-conference conference (See October section of list)
- b) The 7th International Conference on Virtual Systems and MultiMedia
- c) Archaeologie und Computer
- d) Call for Papers: Chacmool 2001 - An Odyssey of Space
- e) PNC 2001 Interim Conference in Guadalajara, December 2- 4
- f) SAA Symposium, March 20-24, 2002

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a) FISH conference: See October section of list:

<http://www.jiscmail.ac.uk/lists/fish.html>

Forum on Information Standards in Heritage e-conference

“Adding Power to Place - linking database content and GIS standards in the cultural heritage sector”

A free e-conference from FISH, the Forum on Information Standards in Heritage. Launches on the FISH discussion list Monday 1st October 2001. See below for joining details.

'Power of Place', the heritage sector review published by the UK government in 2000, emphasised the contribution of the historic environment to a sense of place and belonging. The understanding of this environment resides in text databases maintained by national and local cultural heritage records. Geographic Information Systems (GIS) provide the tools to manage the spatial information that locates and describes this environment. Common approaches are needed to make the best use of both technologies and add the power of understanding to the knowledge of place.

Who is it for?

The e-conference is for anyone and everyone with an interest in the relationship between cultural heritage information and recent GIS and spatial standards developments. Discussion will be of particular relevance to local and national heritage record staff, their software suppliers, and customers.

What will it cover?

The e-conference will bring together contributors from the GIS sector and database managers from the cultural heritage sector. One objective for the discussion is to develop a position statement on how content standards in the heritage sector should make best use of the opportunities offered by GIS. In the longer term the conference will identify issues that need to be addressed in future editions of MIDAS, the manual and standard for monument inventories, and additional terminology standards for inclusion in the INSCRIPTION framework maintained by FISH (see <http://www.inscription.org.uk>).

... You can join in from anywhere in the world, any time you like... and its free.

How it works

The e-conference will use the email discussion list facilities of the National Academic Mailing List service - JISCMail. This is a free text based discussion list accessible to everyone with an email address. No additional technology or experience is necessary. Presentations from speakers will be posted to the FISH discussion list, starting on the

1st October. Additional details and longer presentations will be made available for optional download via the FISH archive. After each presentation there will an opportunity for all subscribers to post responses, and ask questions. For those who wish, 'digest' facilities will make it possible to have all the discussion delivered to them in a single daily email.

Joining instructions

To join the conference, simply email the following two line message to jiscmail@jiscmail.ac.uk. You don't need to put anything in the subject line.

join fish [your name]

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replacing [your name] with your first and last name (without the brackets), and remembering the two hyphen characters on the next line You will get a request to confirm your membership, followed by a welcome message with further information It all starts 1st October 2001 - but join up now to see further announcements.

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b) 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

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

AUTHOR SCHEDULE
Paper Deadline 25 June 2001
Acceptance Notification 3 August 2001
Manuscript Submission 3 Sept 2001
VSMM Conference: 25-27 October 2001

SPECIAL SESSION ON ECAI: NETWORKED DIGITAL RESEARCH RESOURCES

The Electronic Cultural Atlas Initiative (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. Present-

tations 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'.

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

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e) PNC 2001 Interim Conference in Guadalajara, December 2- 4

The Annual PNC Conference features a world-class assortment of digital content presentations showcasing the state of the art in the use of digital technology to support scholarship. PNC, bringing together specialists from around the Pacific Rim, explores issues of information and technology exchange, interdisciplinary

collaboration, and the development of cultural knowledge contexts. In fostering access to digitized data on the Pacific Rim, the PNC serves as a portal for access to digital research. It helps scholars to find the library, archive, and museum materials needed to support both teaching and research. PNC works to build better communications worldwide through its conferences, workshops, and publications.

The Electronic Cultural Atlas Initiative (ECAI), which is participating in the PNC 2001 Interim Conference in Guadalajara, is building a digital research infrastructure to support interoperable data from distributed sources. The humanities and social science projects affiliated with ECAI represent a range of work engaging questions of spatial and temporal relationships. Many are pioneering efforts in the use of Geographic Information Systems (GIS) for historical and cultural material. ECAI encourages proposals for papers on or computer demonstrations of projects drawn from the humanities or social sciences that employ GIS or offer examples of data-rich projects with geo-spatial components

Papers and demonstrations on the following topics will be considered: networking, distance learning, digital museums, digital archives, content analysis, interoperability, metadata, GIS, content mark-up, internet ethics, and intellectual property rights, sacred sites and pilgrimage routes, archaeology, linguistic mapping, inscriptions and rubbings, cities, public health, human rights, historic maps, and human-environment interactions. Sessions are intended to contribute to enlarge understanding of access issues concerning the ever-increasing volume of digital information, and the integration of these resources in the context of a globally networked research community. Research by scholars from Latin America will be given priority. Projects will be selected by an international panel for their potential scholarly impact and innovative approach.

The conference information including program-at-a-glance, visa information, registration and hotel reservation has already posted on the PNC Website at <http://PNCL.org>.

The Organizing Committee would like to wish you an early welcome to the 2001 PNC Interim Conference at Guadalajara, Mexico. Should you have any questions regarding the Conference, please do not hesitate to contact either Caverlee Cary (cari@uclink4.berkeley.edu) or Cindy Lee (Cindi@gate.sinica.edu.tw).

With best regards,

Simon Lin, Ph.D.
Executive Officer
Pacific Neighborhood Consortium
Lewis Lancaster
Director
Electronic Cultural Atlas Initiative

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New SAA Symposium planned
CALL FOR PAPERS

Society for American Archaeology Meeting, March 20-24, 2002 in Denver, Colorado.

Due to the success of the various papers on remote sensing and GIS research in archaeology during last year's SAA meetings, we are putting out a call for papers to be included in a session focused on this genre of research.

Despite this late call we are confident that there are a significant number of researchers looking for a forum

in which to present their recent work in these fields. Graduate students are particularly encouraged to respond, as are researchers working in Mesoamerica.

Symposium Title:

Current Applications of Remote Sensing and GIS in North American and Mesoamerican Archaeology.

Symposium Abstract:

Geographic information systems and remote sensing technology have recently become as commonplace as the trowel in the archaeologist's toolkit. GIS and RS are found in every step of archaeological activity, from developing excavation strategy, to data evaluation, to creating products for professional and public consumption. This symposium presents a variety of approaches to the resolution of archaeological research needs using these computational techniques in Meso- and North American archaeology.

Discussants:

Dr. Payson Sheets, Department of Anthropology, University of Colorado, Boulder.

Dr. Thomas Sever, NASA Archaeologist, Global Hydrology and Climate Center, Huntsville, Alabama.

Co-Organizers:

Daniel Irwin, National Space Science & Technology Center, Huntsville, Alabama.

Cameron Griffith, Department of Anthropology, Indiana University

Chair:

Josh Wells, Department of Anthropology, Indiana University

Entries are due in to us September 10th, so action must be taken quickly! (We apologize for this late posting). The symposium organizers will be paying the fee for late submissions, so participants will not incur any additional costs. Please direct inquiries (via email) to Daniel Irwin at <Daniel.Irwin@msfc.nasa.gov>

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