NEMO Newsletter

Quarterly Journal of the North East Map Organization

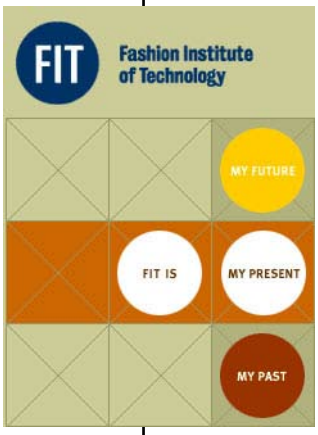
Annual Meeting Report Issue

Number 61 **July 2007**

From the Bridge

Mates Ahoy!

Sixteen presenters/moderators shared their expertise at the 21st Annual NEMO Meeting in New York City on June 7-8, 2007. The program straddled two worlds: one of historic maps and the other involving digital geospatial data available on the Internet or via web servers. In a first, NEMO received many high quality entries for its first annual map competition, and honored several winners. The New York Public Library hosted the Friday brunch and tours of the Map Room.



David Allen's presentation *British Mapping of the New York Province* along with Matt Ericson's *Mapping the News at the New York Times* addressed historical and current cartographic issues respectively. Both received high marks.

Experts from Columbia, Cornell, U. of Delaware and the NJ OIT offered tips and processes in creating metadata adhering to national/international standards. EPA Region II presented a workshop on their new metadata tool, their GIS resources and the EPA clearinghouse. Experts from Harvard, Rutgers, Cornell and U. of Delaware presented the strengths and weaknesses of providing geospatial web access. More experts from Princeton, Columbia, and URI discussed issues related to GIS Portals.

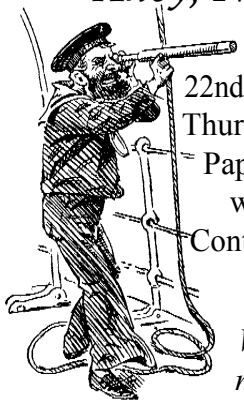
Many factors played into the program's resounding success. Experts had a chance to meet neighbors or peers who might call on them. Map judges swapped ideas on judging and made suggestions for next year. NEMO regulars caught up with each other and made new friends. High quality information was exchanged. All were invited to meet again at future NEMO meetings at Princeton and Penn State. Members accepted a standing invitation from Jim Walsh of NewsBank for our next meeting to be held June 5-6, 2008 at the NewsBank Conference Center in Chester, Vermont.

Another fabulous outcome of the meeting was the unanimous approval of Dorothy Nash (Senior Associate in GIS, NYC Office of Emergency Management) to be our next Captain-elect. Dore brings smarts, energy and know-how to us during a time when NEMO attempts to promote new technologies and standards, to facilitate collaborations, workshops, and better access to historical and current collections, and to award cartographers for their best efforts. Some have thoughts of planning a regional spatial data infrastructure that would help museums, historical societies and educational institutions with significant geospatial content to share it via the Internet or WWW.

So that we do not lose momentum or strive to achieve too much, I am asking our Board and other interested folks to join me in a strategic planning process for NEMO. Please contact me if you would like to participate in the Strategic Planning Committee. As envisioned, most of our work will be done via email.

Cynthia Dietz
Captain NEMO

Ahoy, NEMO Members



Save these Dates!

22nd Annual Meeting Chester, Vermont
Thursday & Friday, June 5-6, 2008
Papers &/or ideas for presentations welcome.
Contact: Dorothy Nash, Captain-Elect
DNash@OEM.NYC.GOV

Watch for program details in the next issue.

NEMO 2007

21st Annual Business Meeting

New York Public Library Map Room

June 8, 2007

The business meeting was convened by Captain Paige Gibbs at 10:00 a.m.

Minutes of the previous meeting were approved with the correction that Mark Jaquith was not present at the first NEMO meeting.

Treasurer's Report

The current balance is $5,625. The expenses of the conference have yet to be subtracted. $2,300 is the "cushion" balance over the course of a year.

Captain's Report

- Paige thanked Cynthia Dietz for planning NEMO 2007.
- She reported on a telephone conversation with the president of the Western Association of Map Librarians (WAML). There is potential for a map summit conference.
- David Bertuca was recognized for his continued excellent service as *NEMO Newsletter* editor and NEMO webmaster.
- She announced that Jim Walsh has been hospitalized but there was no further information at this point. She will send to the NEMO distribution list information as it is available.

Elections

- Treasurer — Heather Hoffmann, incumbent, accepted nomination. Having no other nominations Dick Gelpke moved that nominations be closed and that one ballot be cast for the nominee. Motion passed unanimously.
- Captain — Dorothy Nash offered herself in nomination. Having no other nominations Dick Gelpke moved that nominations be closed and that one ballot be cast for the nominee. Motion passed unanimously.
- CUAC (Cartographic Users Advisory Council to U.S. Federal agencies) Representative — Anne Graham nominated incumbent Thelma Thompson. Having no other nominations Dick Gelpke moved that nominations be closed and that one ballot be cast for the nominee. Motion passed unanimously.

Reports

- Newsletter — David Bertuca announced that NEMO occasionally receives geospatial items for review. Several members have volunteered as reviewers and the first reviews will be published in the upcoming newsletter.
- Anne Graham, one of the two NEMO representatives, reported on the CUAC meeting in Washington DC in May.

Old Business

- Whither NEMO? Dick Gelpke encouraged the membership to continue as an organization that provides "something for everyone" interested in maps e.g.: outdoor activities, antiquarians, travel, and emerging technology.

New Business

- NEMO 2008 Location in Vermont

By acclamation Jim Walsh's offer of Newsbank's conference center in Chester, Vermont was accepted as the site for the 22nd Annual NEMO meeting on June 5-6, 2008.

- Bylaws revision discussion

Paige Gibbs reported that the NEMO nomination practice does not follow the procedure in the bylaws. She will submit to the membership a proposed bylaws revision intended to streamline the nomination process. Voting will be by mail (postal or electronic) before the end of the fall.

The business meeting was adjourned.

Following adjournment the new Captain, Cynthia Dietz, presented thank you gifts to the session moderators and held drawings for map-themed items.

Respectfully submitted,
Paige Gibbs – *secretary pro tem*

The North East Map Organization 21st Annual Meeting New York City—June 7-8, 2007 Report of Presentations

Thursday June 7

►Introduction by Christian Filstrup, Dean of Libraries at Stony Brook University

►Panel: Metadata Creation and Import

Moderator: David Bertuca

Eric Glass: Columbia University

Spoke about Federal Geographic Data Committee (FGDC) and the Content Standard for Digital Geospatial Metadata (CSDGM). http://www.fdgc.gov/

- FGDC was approved on 6/8/94
- 2nd version of FGDC (FGDC-STD-001-1998) was approved in 1998
- CSDGM identifies three purposes
  - Maintain an organization's investment in geospatial data
  - Provide information to data clearinghouses and catalogs
  - Provide information needed to process and interpret data transferred from another organization
- Eric's position was started because of exponentially growing geospatial data at Columbia; they are in the process of creating a catalog with geospatial data and metadata
- There are 7 major sections of the FGDC standard
  - With compound elements composed of other compound elements
  - Only federal agencies are required to follow the "mandatory if applicable" standard
  - Section 1: Identification Information (could pass as a short metadata record)
    - Includes: what's in the dataset, dataset name, who created it, date, how it can be used
    - Columbia uses Library of Congress Subject Headings (LCSH) for place keywords (use any other keywords)
  - Section 2: Data Quality Information
    - Addresses issues of general quality of the dataset
    - Data providers should work this into the metadata
  - Section 3: Spatial Data Organization Information
  - Section 4: Spatial Reference
  - Section 5: Entity and Attribute Information
    - What information is included, how it is encoded
  - Section 6: Distribution Information
    - How can the data be obtained?
  - Section 7: Metadata Reference Information
    - How was it created?
- FGDC metadata is extensible (extensions and profiles)
- Columbia University Spatial Catalog (password protected) http://gis.columbia.edu/data.html

Keith Jenkins: Cornell University

- Spoke about metadata editors
- Works with the Cornell University Geospatial Information Repository (CUGIR) as the GIS Librarian (used to be the Metadata Librarian)
- Works with geospatial metadata in xml form http://geology.usgs.gov/tools/metadata
  - CNS = Chew & Spit
    - Pre-parser for formal metadata (in FGDC standard)
    - Corrects the indentations ("use with care")
  - MP = Metadata Parser (?)
    - Command-line program
    - Compiler for formal metadata
    - Checks the syntax against FGDC CSDGM
- Oxygen, XMetaL (example of generic XML editors)
- CUGIR uses Oxygen 8.1
- Checks for a lot of things to make sure the data are correct
- Has schema-aware capabilities and diff (shows differences)
- Search and replace across multiple files
- Color-code xml
- Workflow
  - CNS (if starting with .txt file)
  - MP
  - Oxygen
  - MP (to double check)

John Scialdone: Center for International Earth Science Information Network (CIESIN)

- Spoke about International Standardization Organization (ISO) metadata standards
- He hasn't dealt much with ISO standard, he is used to FGDC
  ISO & TC (Technical Committee) 211 www.isotc211.org/
  ISO 19115 (introduction in 2003) www.iso.org/
  - Putting together metadata content and relationships
  - Establishes metadata terminology and accessibility (22 core elements)
    - 7 mandatory elements
    - 15 conditional elements (if applicable, provide information)
- ISO 19115-2
  - Extensions for imagery and gridded data
  - Is being drafted
- ISO 19139
  - Schema, implementation derived from 19115 format
- North American Metadata Profile (NAP)
  - U.S., Canada, Mexico
  - Each member nation can craft own profile of ISO 19115 with requirement that it includes the 22 core elements
- ISO 19115 has some similar fields as CSDGM (some do not match)
- ArcCatalog 9.1 does not provide ISO fields for input
  http://www.iso.org
  http://www.isotc211.org
  http://www.fao.org
  http://www.fao.org/geonetwork/srv/en/main.home
  INTA National Institute for Aerospace Technology
  http://www.crepad.rcanaria.es/metadata/en/index_en.htm

Edith Konopka: New Jersey Office of Information Technology (OIT) and Office of GIS (OGIS)

- Spoke about metadata for raster mosaics
- A raster mosaic with no metadata loses a lot of its quality
- Raster view is made up of grids with values
  - Aerial photographs
  - Satellite images
  - Orthophotos
- Typical files specify location of upper left corner, cell size, number of rows, number of columns, bit depth
- List value for each cell
- Large rasters usually stored by some data compression
- With lossy JPEGS, if being re-compressed, original quality

isn't restored
- Many raster datasets start out as unlocated images (scanned maps, aerial photos)
- Georeference and orthorectify
- Metadata needs to state whether image was geolocated and how it was done
- Creating a mosaic (rasters can overlap or have gaps)
  - Metadata need to state how mosaic was created, what software was used, how overlaps and/or gaps where dealt with
- Need cell registration to have images line up (raster matches grid of mosaics)
- Raster pyramids allow for more efficient display
- Follows 7 sections of FGDC-STD-001-1998
  - 1: crucial for catalogs
  - 2: detailed information from data producer
  - 3: elements differ from vector data
  - 5: applicable, but brief
- May also want the Remote Sensing Extensions (FGDC-STD-012-2002)
  - Good if large collection (hundreds of thousands of images)
- 8 mandatory subsections of section 1 (out of 14 subsections)
- Need thesaurus as ISO 19115 Topic Category
  - Good for GIS data catalogs and Geospatial One Stop harvesting
- Some data should be repeated in section 1
- Spatial Data Organization Information is brief for raster images, as is Entity Information
- Resolution refers to cell size for raster images
- More often than not, distributors of raster data are not those who created the data
- Require complete info from mosaic creator.
- Edith recommends: FGDC metadata workbook @ http://www.fgdc.gov/metadata/documents/workbook_0501_bmk.pdf and FGDC Metadata Quick Guide @ http://www.fgdc.gov/metadata/documents/MetadataQuickGuide.pdf

John Callahan: University of Delaware
- Spoke about metadata for map services
- He runs the state of Delaware Clearinghouse
- Received several FGDC cap grants
- Data really need metadata
- Delaware is using ESRI GIS Portal Toolkit (moving to 3.1)
- Online form, upload xml file, use ArcCatalog to get metadata published (or edited)
- FGDC CSDGM created before Web map services
- ISO doesn't address the issues
- Need to know where map service is coming from, then change software needed to read it
- Take .kmz files, change .kmz to .zip, then view all .kml files in Google Earth
- Metadata is only metadata, a textual description of maps
- Delaware (GPT v3) supports: ArcIMS, OGC WMS, WFS, WCS Services
  - Other services need to be documented as Document, Application, Geographic Service, Geographic Activity
- Required for all map services
  - Content type
  - Live Data & Maps
  - ESRI tags (they use ArcIMS)
- No requirement on documenting individual layers or attributes consumed by service
- Where is the future? There are lots of questions that need to be answered.

►Panel: Successes in Optimizing Geospatial Access, or What ArcIMS has Meant for Geospatial Access

Moderated by Jeremiah Trinidad-Christensen

Keith Jenkins: Cornell University, CUGIR

Spoke about CUGIR http://cugir.mannlib.cornell.edu
- All datasets have metadata and are downloadable
- All data are free
- 6700 datasets (geospatial) from ~11 different providers
- Data providers are responsible for data, CUGIR is responsible for metadata
- Data are .shp, .e00, .asc, .tif
- CUGIR does not change data
- Have "active" and "passive" providers
  - "Active" providers contact CUGIR to ask to have their data in CUGIR
  - "Passive" providers are contacted by CUGIR to have their data in CUGIR
- Decide whether to keep older datasets that have been updated
- CUGIR allows three different ways to find data
  - Browse
  - Select Area
  - Search
- Not a Web mapping application, but static HTML image maps (HTML Image Mapper-?)
- Created from Vector GIS data (batch-processed)
- Simple, functional, reliable; don't need to worry about an IMS going down
- Don't have aerial photos
- Can save multiple datasets into a basket and download the zip file (automatically downloads metadata for user)
- People weren't interested in knowing what was newly entered into the catalog, so they decided not to have a link to that on the home page
- Users may not know if the data they want is by quad or county, so it doesn't make sense to have them select their area by choosing one of those

John Callahan: University of Delaware
- Spoke about geospatial data at the University of Delaware
- University of Delaware uses ArcGIS, which is used by 45+ departments and research centers http://www.udel.edu/gis
- Is pushing Open Source Software
- Have statewide orthoimagery, landsat imagery, other imagery as needed
- All raw data on the shared file server in Research & Data Management Service (RDMS) GIS research lab
- Can be taken out on portable hard drives
- Have an orthophotos index viewer
- Have ArcIMS & WMS image services for each year for orthophotos (finds they run better than a catalog)
- Delaware DataMIL (http://datamil.delaware.gov/) offers state framework data and topographic maps
- Have U.S. Census data and University of Delaware campus data
- Most people use mapping sites for viewing data
- Many use Web for downloading data

- Many use ArcGIS Desktop
- Some request data on DVDs and/or hard drives
- Few people request data in special formats (Geography Markup Language (GML), MapInfo)
- Almost none (on campus) use Open Geospatial Consortium (OGC)

Dave Siegel: Harvard University

- Harvard Geospatial Library (HGL) http://peters.hul.harvard.edu:8080/HGL/jsp/HGL.jsp
- Presented, "Optimizing Access via ArcIMS, Portals, and the Desktop"
- Infrastructure for cataloging, storing, & distributing geospatial data
- ArcIMS is a metadata catalog based on FGDC
- Raster and vector data
- Everything in HGL is georeferenced
- Log4J (an open source tool) allows them to track users and gather statistics
- Not all files are in the same projection; they rely on ArcGIS to take those files and bring them into a common projection
- Have a full-time FGDC metadata cataloger
- Have a library portal, Web interface
- HOLLIS, Harvard's Library Catalog, provides Internet links http://hollis.harvard.edu/
- If a map isn't georeferenced, it is stored as JPEG2000
- Allow a custom map service
- Usability issues are a constant struggle (it isn't like Google Maps)
- They are looking to create an OGC-compliant service

Rick Lathrop: Center for Remote Sensing and Spatial Analysis at Rutgers University

- Presented "Web-Based Geospatial Data Visualization"
- Not trying to be a one-stop shop
- Work with ArcIMS to get the data out there
- No need for GIS software for all users
- Users wanted to be able to go in and have querying capabilities
- Had problems with zonal summary statistics
- They work with vector and raster data
- With JavaScript, the delineated polygons become hotspots (when hovered, population data for the cities appear)
- Using Google Earth and Google Maps because there is an end-user familiarity with the interface
- Want to get customized information out to users, not just data

►Panel: Issues Related to GIS Portals (e.g., NEMO, Long Island, Oceans, etc.) vs. GIS Clearinghouses

Moderated by Maurie Caitlin Kelly

Greg Bonynge: University of Rhode Island

- Presented, "A Brief Introduction to Clearinghouses & Portals for Geospatial Data Networks"
- Rhode Island GIS (RIGIS): http://www.edc.uri.edu/rigis/
- National Geospatial Technology Extension Network (NGTEN)
- Clearinghouses:
  - Distributors of geospatial data and information
  - Host the content they distribute
  - Range from small (conservation organization's GIS database) to large (state GIS clearinghouse)
  - Often distribute a collection contributed by many partner organizations
- Portal and clearinghouse policies and standards vary widely
- Need to efficiently find clearinghouses (keyword search, word of mouth)
- Portals (e.g., Geodata.gov):
  - Source that links to a clearinghouse (or a site with data and/or information)
  - Save user time by collecting records of where data are stored, and putting the records into a catalog to search
- Conservation GeoPortal by the Conservation Commons (http://www.conservationmaps.org/index.jsp)
- Portal content varies by geography, media type, content topics, and searching capabilities
- Portals have challenges:
  - Quality control
  - Technology (can be simple or complex)
  - Value of portal dependant on breadth and quality of content contributors
- Portals do not take data ownership from others, the owners stay the owners

T. Wangyal Shawa: Princeton University

"Services, Collection Development, and Dissemination Methods"

- GIS in libraries can be classified into two categories:
  - Basic GIS service
    - General access to GIS data on CDs
    - Links to online datasets
    - Access to GIS software packages
  - Advance/In-Depth GIS consultation service
    - GIS reference service
    - Data searching
    - Data conversion
    - GIS analysis
    - Mapping
    - Etc.
- Princeton University provides in-depth consultation service; provide workshops, help patrons with analysis, conduct one-on-one meetings
- Collection Development:
  - Each institute has own collection development policy
  - Digital map and geospatial data are different—need to learn how to develop the collections
  - At Princeton, most disciplines use geospatial or location-based data
  - Core-data, base-data, or reference-data are GIS data that are needed most by GIS users to create their own data
  - Coverage at Princeton is at the world level
- Global Mapping Industries: Christian group, have language data
- Dissemination Method:
  - How to give access to data and maps purchased, donated, or received through the Federal Depository Library Program (FDLP)
  - How to design a system that will allow the library to integrate different forms of geographic information and make them accessible online from the interface
  - How to help researchers who are in the field and want to access data online, and store and share data with their groups
  - Princeton users Spatial Direct/FME
  - They are using ArcSDE and Microsoft SQL server software to test project that will allow researchers to access, store, and create metadata, and share the data with fellow researchers

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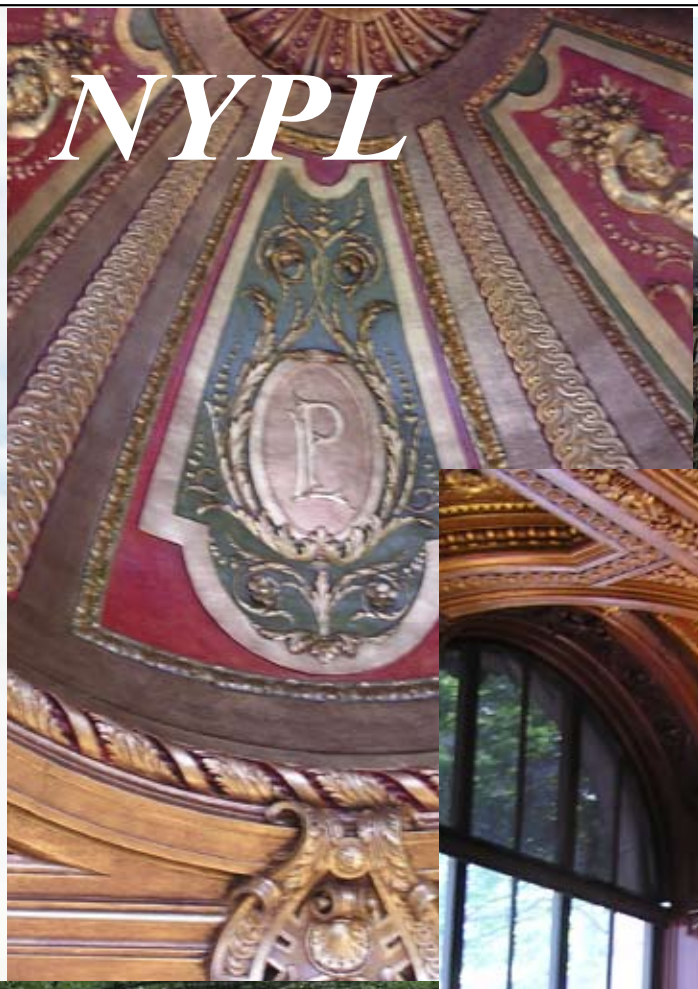
NYPL


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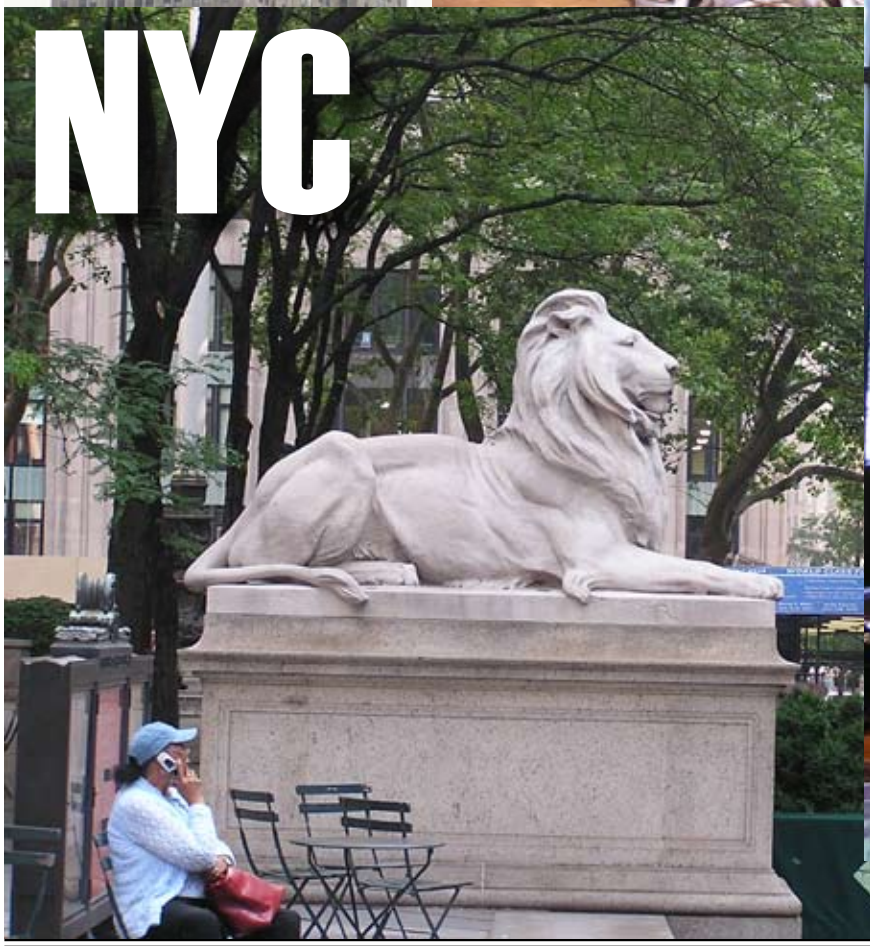
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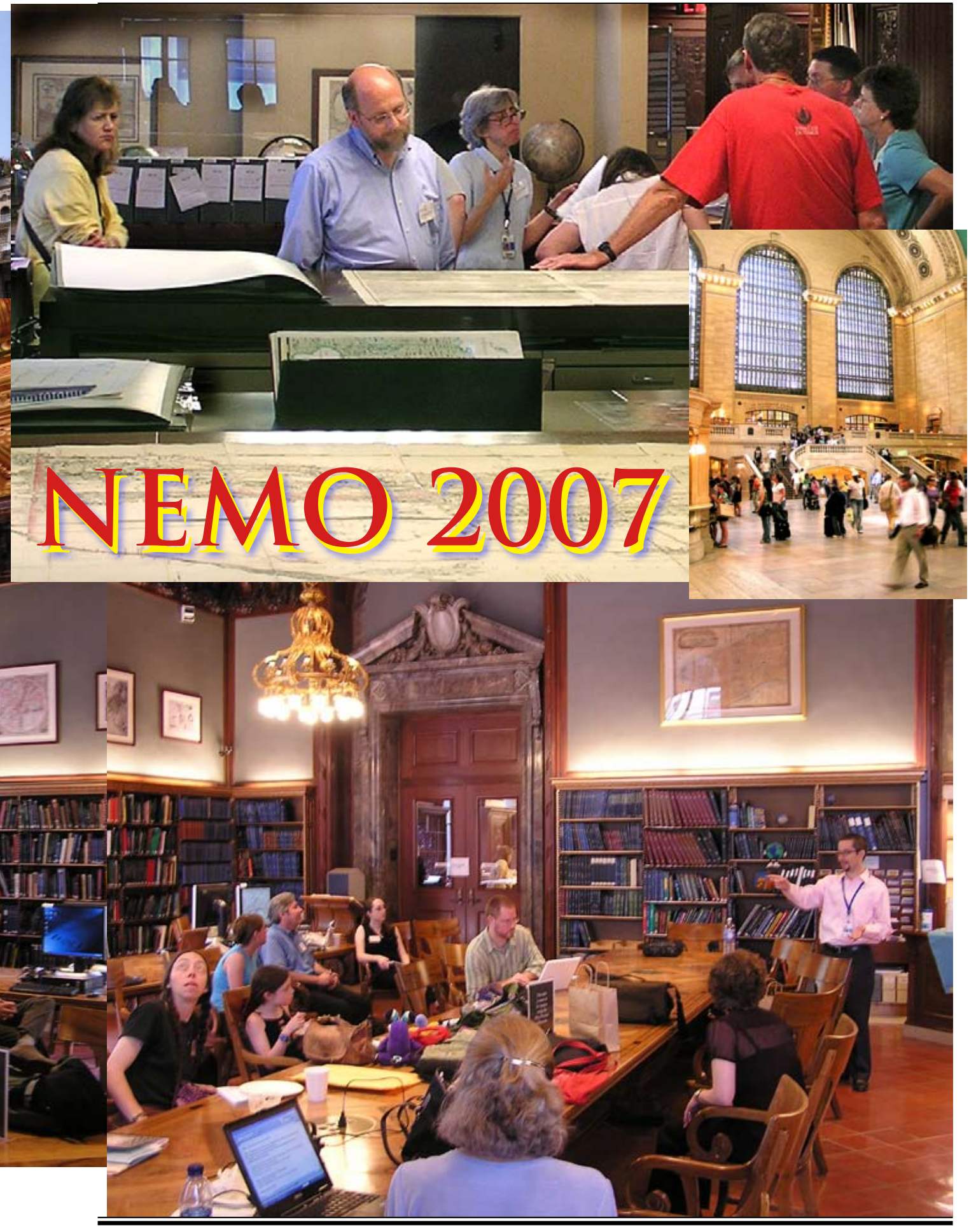

NEMO 2007

NEMO Map Design Competition 2007

Judges

The First Annual NEMO Map Design Competition awards ceremony was held on June 8, 2007. Ten maps were submitted. This number was lower than expected because it was the first year the competition was held; we're hoping for higher numbers at the next competition.

The maps were judged by five judges who specialize in cartography:

- Michael Hermann is the senior cartographic designer with the University of Maine Canadian-American Center, and has won several awards for map design in the last decade. Michael specializes in the migration of GIS data into desktop publishing and graphic design packages for final publication. He is a graduate of the Penn State Geography Department, and is involved in many areas of digital cartography and information design.
- Michael Leitner teaches in the Geography & Anthropology Department at Louisiana State University. He earned a B.A. and an M.A. in Geography, and a B.A. in Cartography from the University of Vienna, and an M.A. and a Ph.D. in Geography from State University of New York (SUNY) at Buffalo.
- Mike Siegel is staff cartographer in the Rutgers University Geography Department. He has been running the Cartography Lab and teaching undergraduate cartography courses in the Geography Department since 1988. He is currently at work on a book titled, "Mapping New Jersey: An Evolving Landscape."
- Joe Stoll is the Staff Cartographer in the Geography Department at the Maxwell School of Syracuse University. His work supports faculty teaching, research, and publications. He also produces campus maps for numerous Syracuse University publications and other custom-designed cartographic materials. He holds a B.S. from Eastern Mennonite University, and an M.S. from the University of Wisconsin-Madison.
- Doug Williamson is a Cartography and GIS instructor at Hunger College–CUNY. He is employed full-time at the New York City Department of Information Technology and Telecommunications (DoITT) in the Citywide GIS Group, where he serves as a project manager. He has written articles on a variety of topics including spatial analysis, crime mapping, and 3-D visualization. He has his M.A. and Ph.D. from CUNY, and his B.A. from Rutgers University.

NEMO thanks each of them for helping the organization successfully hold the first map design competition.

Awards

Maps were submitted into three different categories: Best Data Integration; Best Cartographic Design: Small Format; and Best Cartographic Design: Large Format. In all categories, maps were judged on sound cartographic guidelines. Data presentation and the relevance of the data to problem-solving were considered heavily. Entries in the Best Data Integration category were judged on the variety of data sources, the means of data integration, and the degree of data relevance. In the Best Cartographic Design: Small Format category, maps needed to be 11" x 17" or smaller. In the Best Cartographic Design: Large Format category, maps needed to be larger than 11" x 17". There were several other categories that the submitted maps were put into: Best Analytical Presentation; Most Unique; Best Interactive Presentation; Best Overall Graduate Student Map; and the highest honor, Best Overall. The winning map for the Best Overall category was chosen from the winning maps of the other categories.

Winners

- Best Data Integration—Gregory Fiske, *The Albertine Rift: Protected Area Watch*
- Best Cartographic Design: Small Format—Steve Signell, *Documented Terrestrial & Aquatic Invasive Plant Species*
- Best Cartographic Design: Large Format—Angus McCusker, *Mt. Mansfield Hiking Trail Map*
- Best Analytical Presentation—Jens Hilke, *Wildlife Corridors and Suitability in Vermont*
- Best Interactive Presentation—Sohyun Park, *Ithaca Fire Department Gorge Rescue Map: Six Mile Creek*
- Most Unique—Gregory Fiske, *The Albertine Rift: Protected Area Watch*
- Best Overall Graduate Student Map—Joel Caplan, *Parole Officer Caseload Distribution* (color version)
- Best Overall—Angus McCusker, *Mt. Mansfield Hiking Trail Map*

Congratulations to those who won at this year's competition, and thanks to the others who submitted maps. It was a great first year.—*Sarah Stanwicks*

See the entries:
http://www.northeastmap.org/nemo/comp/mapcomp2007.html.

- Within each group, someone will become the administrator and have full access to the database, while others in the group will only be able to view
- He has started a pilot project with three groups
- Challenges of introducing a service:
  - Convincing administration and researchers
  - Storage and back-up space issues
  - Work with system administrator
  - Writing Memorandum of Understand (MOU) letters

Mark Becker: CIESIN

- "Geospatial Data Portals Licensing, Use, and Re-distribution" http://beta.sedac.ciesin.columbia.edu/wdc (World Data Center)
- They build datasets themselves
- Developed Gridded Population of the World (from Census Data to vector to raster database)
- Building a Web mapping service: Ionic Red Spyder Software
- Another CIESIN Portal: http://nin.nbii.gov/portal/server.pt
- Northeast Information Node (NIN)
- They are working very hard to integrate different resources
- Invasive Plant Atlas of New England (IPANE) from the University of Connecticut is a NIN partner: http://www.conservationmaps.org/index.jsp
- Goals related to rights management
  - Support re-distribution, re-use data
  - Create happy users
- Data licensing issues
  - Time consuming
  - Confusing language
  - Difficult to track/maintain records
  - Separate from the data
  - Not really machine-readable
- Have many permissions issues
- Creative Commons: www.creativecommons.com (CC)
  - Machine-readable
  - CIESIN is using CC licensing
  - Now adding CC license to maps they create and disseminate
- Efforts to promote access to data through open journals and journals devoted to data
- Efforts to create science commons
  - Creative Commons, Science Commons project: http://sciencecommons.org
  - CODATA—Global Information Commons for Science Initiative: http://www.codata.org/wsis/GlobalInfoCommonsInitiative.html

Harvey Simon: Environmental Protection Agency (EPA) Region 2

- At Friday's tour, they will do demos on how they handle data in ArcSDE
- Few examples to help with metadata
- EPA Metadata Editor Version 2
- National Park Services metadata tool set
- ArcScript
- http://geodata.epa.gov/tools.html

►How the British Mapped the Province of New York, 1720-1775

David Y. Allen: SUNY Stony Brook, Professor Emeritus

[Side note: *Coordinates* with MAGERT is asking for submissions: contact through MAGERT site]

- Herman Moll was a physician, not a cartographer
- Cadwallader Colden was called the Father of the Erie Canal because he got it correctly on a map
- The British government didn't pay Colden, so he didn't make maps for them
- Lewis Evans didn't want to rely on latitude, only on distance measurements made by chains. Didn't use projections, either.
- David Allen used Map Analyst (free and easy to use) to measure accuracy of the maps by matching locations on modern and historic maps—the program shows you how maps differ. It's not the same as georeferencing because it doesn't distort and stretch the maps.
- John Montresor's map was more accurate than Evans' map.
- Samuel Holland's map was more accurate than Montressor's map. He used some sort of projection when creating his map.

►Mapping the News: The Latest and Best in Mapping Techniques

Matthew Ericson: New York Times

- Chief Graphic Editor
- At around 11:00 am or 12:00 pm (noon), they will get information about an article
- Around 3:00 pm they will get an idea of the size of the map.
- Around 6:00 pm they know the size, and have it have it done around 9:00 pm.
- Not very methodical about metadata
- Use ArcMap/ArcView and export into Adobe Illustrator
- Use Natural Scene Designer
- Use GIS software to try and uncover patterns
- A lot of the maps and diagrams are drawn freehand instead of created in a GIS program: those created in a GIS program have a lot of data to show in the map

Friday June 8

►New York Public Library (NYPL) (Tour)

Matthew Knutzen, Alice Hudson, Nancy Kandoian

- Renovations of The Lionel Pincus and Princess Firyal Map Division took nine months.
- Office space added in the staff area
- Gold and colors were revealed once the ceilings were cleaned. There is a "PL" on the ceiling to represent Public Library.
- The ceilings were so dirty because in the past the windows would be open, and the library is on a very busy corner, so all of the air from the city came in and coated the ceiling.
- Wireless was added to the reading room, and wires were run underground. The tiles had to be lifted one-by-one to get the wires underneath.

►EPA Region 2 GIS (Tour)

Harvey Simon, Grace Smith

- Have large server room
- EPA Region 2 covers New York, New Jersey, Puerto Rico, U.S. Virgin Islands
- The reason NY was chosen to cover Puerto Rico and the Virgin Islands is because it has the fastest and most number of direct flights to those areas
- ~1000 employees
- Use ArcGIS 9.2, XTools Pro extension, Oracle Spatial

NEMO 2007 Meeting Attendees

Gregory Albukh	NYC Dept. of Housing Preservation and Development
Kasey Allen	New York City Parks & Recreation
David Y. Allen	Stony Brook University
John Babcock	Columbia Press
Mark Becker	CIESIN, Columbia University
Haupt Bernd	Penn. State University
David J. Bertuca	University at Buffalo
Timothie Biggs	NYC Office of Emergency Management
Greg Bonynge	University of Rhode Island
Jessie Braden	New York City Parks & Recreation
Maurie Caitlin Kelly	Pennsylvania State University
John Callahan	University of Delaware
Tim Dec	TerraGoTech
Aimee deChambeau	Stony Brook University
Cynthia Dietz	Stony Brook University
Nora Donnelly	NYC Parks and Recreation
Jack Eickenbaum	GISMO
Matthew Ericson	The New York Times
Brad Feldman	Suffolk County Water Authority
Christian Filstrup	Stony Brook University
Richard Gelpke	University of Massachusetts Boston
Paige Gibbs	University of Massachusetts Dartmouth
Eric Glass	Columbia University
Eric Gordon	GeoWorld Planning Services & GeoWorld Maps
Anne Graham	Massachusetts Institute of Technology
Ronald E. Grim	Boston Public Library
Danielle Hartman	Community Cartography / HydroQual
Heather Hoffman	
Mark Jaquith	
Keith Jenkins	Cornell University
Angelique Jenks-Brown	Binghamton University
Godlind Johnson	Stony Brook University
Nancy A. Kandoian	New York Public Library
Edith Konopka	NJ Office of Information Technology
Rick Lathrop	Rutgers University
Drew Laughland	Simmons College
Ira Levine	NYC Dept. of Housing Preservation and Development
Reed Lowrie	Harvard University
Marc McGee	Harvard University
Michael Mills	Rutgers University
Sue Mullin	John Jermaine Memorial Library
Lloyd Nakao	NYC Dept. of Housing Preservation and Development
Tohru Nakaya	
Dorothy Nash	New York City Office of Emergency Management
Christopher O'Connor	NY State Department of Environmental Conservation
Roni Pick	Boston Public Library
Susan Resnick	NYC Dept. of Health & Mental Hygiene/GIS Center
John Scialdone	CIESIN, Columbia University
Barbara Seekins	National Marine Fisheries Service
T. Wangyal Shawa	Princeton University
Dave Siegel	Harvard University
Harvey Simon	EPA Region II
Grace Smith	EPA
Sarah Stanwicks	University of Connecticut
Bill Timmins	GIS Services - TerraGo
Jeremiah Trinidad-Christensen	Columbia University
Michelle Van Brockhoven	EPA
Grace Wiersma	Massachusetts Institute of Technology

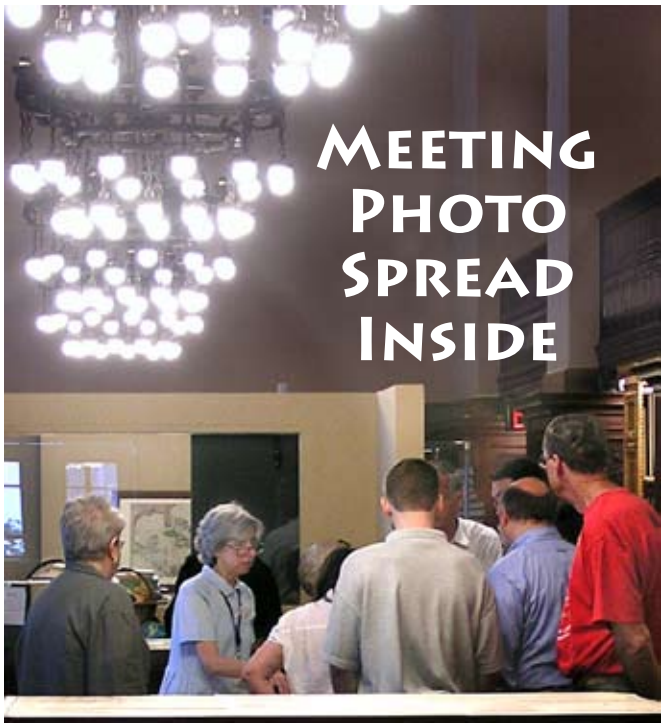
Are You There?

The NEMO website includes pages by members or their collections and we want to list yours. The best way to get listed is to send your link and a paragraph annotation. Visit the website for examples: http://www.northeast-map.org/. Click on "Member Pages" and take a look.

Are You Here?

While you are at it, do want to publicize a website or page that you did, or one that you want to tell your carto-friends about?

Submit the info and link to the *NEMO Newsletter* and we'll make sure to let the membership know in the next issue. Write an article or description and send it to the editor.



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We welcome contributions and suggestions. Please submit materials to the editor by e-mail, 3.5" disk (PC/Mac (Word, RTF, or ASCII, tif, jpg)) CD-ROM, or by sending a typewritten document. Submissions and newsletter questions should be directed to:

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