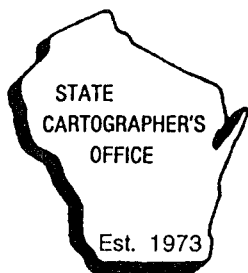


WISCONSIN MAPPING BULLETIN

Vol. 14 No. 1 January 1988



QUARTERLY PUBLICATION OF THE
STATE CARTOGRAPHER'S OFFICE
PROVIDING INFORMATION ON LAND
RECORDS AND MAPPING SCIENCES
IN THE STATE OF WISCONSIN

OSHKOSH CONFERENCE

The Education Committee of the Wisconsin Land Information Coalition (WLIC) is in the final planning stages for the Land Information Conference on February 25 & 26, 1988 at the Radisson Hotel in Oshkosh, WI.

At right and on the reverse side is the preliminary agenda with the speakers that have been confirmed at press time of the Bulletin. It also should be noted that on Thursday evening (7:00 p.m.) and Friday morning (9:45 a.m.) time is being allocated for professionals of various disciplines to meet and prepare positions to present to the WLIC at the 11 a.m. closing session. The staff of the WLIC is extremely interested in receiving proposals from the land records community on direction and goals to pursue in achieving the recommendations of the Wisconsin Land Records Committee.

On page 3 of this bulletin, is a list of sponsoring organizations of this conference. The Education Committee and the staff of the WLIC appreciate their support.

EXPANDED PRELIMINARY CONFERENCE AGENDA

WISCONSIN LAND INFORMATION COALITION (WLIC) 1988 CONFERENCE PROGRAM

<u>TIME</u>	<u>TOPICS</u>
Thursday, February 25	
9:00 -10:00	REGISTRATION; Informational Displays by Sponsoring Associations
10:00-10:30	Welcome and Introduce Conference Particulars by WLIC Staff
10:30-11:30	Modern Land Information Systems - Opportunities and Challenges "Challenge the Conference Participants" Keynote Speaker is DR. PAUL ZWICK , Assistant Director, Geographic Planning Information Center, University of Florida, Gainesville, FL.
11:45- 1:15	LUNCH (in registration fee) "State-of-the-State" Presentation: review of WLRC's charge, process, conclusions, status and the strategy presently being pursued.

PROF. JAMES CLAPP, chair, Wisconsin Land Records Committee; Director, Center for Land Information Studies, Institute for Environmental Studies, and chair, Department of Civil and Environmental Engineering, UW-Madison.

Thursday, continued

1:30 - 2:45 Examples of Developing **Modern Land Record Systems**, Wisconsin Public Service Corporation, **MR. RON MOSNIK** City of Milwaukee, **MR. WILLIAM HUXHOLD**, Director, Electronic Data Services Dept., and **MR. RANDY GSCHWIND**, Dept. of City Development. Wisconsin Dept. of Transportation, **MR. RONALD SCHAEFER**, Management Information Specialist.

Examples will review:

- methods and procedures
- problems and solutions
- those individuals involved
- steps/obstacles incurred
- current and future applications
- recommended do's and don't's

CONCURRENT SESSIONS

3:00 - 4:00 Four Tracks
Track: **GEOGRAPHIC INFORMATION SYSTEM**
Topic A: Introduction to GIS
URISA speakers: **MR. WILLIAM HUXHOLD**, **MR. RANDY GSCHWIND**, **MR. RICHARD ALLEN**, City of Milwaukee

Track: **GEODETIC CONTROL**
Topic B: Dane County Global Positioning System
PROF. ALAN VONDEROHE, Dept. of Civil and Environmental Engineering, UW-Madison.

Track: **PARCEL MAPPING**
Topic C: Geographic Information System vs Mapping CAD Operation
DR. PAUL ZWICK, University of Florida.

Track: **SPECIAL APPLICATIONS**
Topic D: Utility's Requirements: presentation of two utilities' perspective

4:15 - 5:15 Four Tracks
Track: **GEOGRAPHIC INFORMATION SYSTEM**
Topic A: (Repeat of 3 P.M.)
Track: **GEODETIC CONTROL**
Topic B: (Repeat of 3 P.M.)
Track: **PARCEL MAPPING**
Topic C: (Repeat of 3 P.M.)

Track: **SPECIAL APPLICATIONS**
Topic E: Two part:
-Southeast Wisconsin Data Sharing Group; presentation by member of group;

Thursday, continued

-Ad Hoc Committee on Digital Data Survey of Wisconsin; presentation by member of committee

5:30 - 7:00 General Reception (cash bar)
Informational Displays by Sponsoring Associations

7:00 DINNER (on your own)
Professionals of various disciplines may schedule dinner meetings to conduct association business or draft position for conference session at 9:45 a.m. Friday.

Friday, February 26

CONCURRENT SESSIONS

8:30 - 9:30 Four Tracks
Track: **GEOGRAPHIC INFORMATION SYSTEM**
Topic F: GIS and Mapping, **DR. PAUL ZWICK**, University of Florida and other participants

Track: **GEODETIC CONTROL**
Topic G: Review of Geodetic Control Alternatives, Representatives of Wisconsin Society of Land Surveyors, Wisconsin County Surveyors Association, and Southeastern Wisconsin Regional Planning Commission

Track: **PARCEL MAPPING**
Topic H: Statewide Parcel Numbering System, **MR. JEFF BLUSKE**, President, Wisconsin Real Property Listers Association.

Track: **SPECIAL APPLICATIONS**
Topic I: Recent Innovations in Laser/Disc Records Storage, **MR. CHRIST G. ELLIS**, IMNET Corp.

9:45 -10:45 Professional Focus Group Meeting - professionals of various disciplines meet to:
1. Review WLRC Strategy
2. Develop recommendations for WLIC

11:00-12:00 General Closing Session;
● Review of Focus Group's recommendations
● Identify future direction for WLIC
● Wrap-up conference

OSHKOSH CONFERENCE SPONSORS

American Congress on Surveying and Mapping
(Southern Lake Michigan Section)

American Society of Photogrammetry and
Remote Sensing
(Western Great Lakes Region)

Automated Mapping/Facilities Management
International
(Wisconsin Regional Chapter)

State Cartographer's Office

★ Urban and Regional Information Systems
Association
(Wisconsin Chapter)

Wisconsin Register of Deeds Association

Wisconsin Association of Assessing Officers

Wisconsin Society of Land Surveyors

Wisconsin Real Property Listers Association

Wisconsin County Planning Directors
Association

Wisconsin County Surveyors Association

Wisconsin County Code Administrators

(as of November 1987)

★ special thanks is due to WisURISA for
supporting the formation of the Wisconsin
Land Information Coalition.

LANDSAT 6 SENSOR PAYLOADS

The Earth Observation Satellite Company (EOSAT) reports that the Landsat 6 earth remote sensing satellite scheduled for launch in early 1991 will carry three sensor payloads. These are: 1) the Enhanced Thematic Mapper (ETM) sensor with seven multispectral bands and 15-meter panchromatic capability, 2) a new Thermal Infrared (TIR) capability, and 3) the Sea-viewing Wide Field Sensor (SeaWiFS) for ocean color and temperature data.

The Enhanced Thematic Mapper (ETM), developed by Hughes Santa Barbara Research Center, is the primary sensor for the Landsat 6 mission. It incorporates the existing multispectral capability of the Landsat 4/5 Thematic Mapper, and adds a 15-meter panchromatic capability in the .5 - .9 micron range. Added features will result in more efficient data handling capability, in particular simultaneous band collection and data recording.

ENHANCED THEMATIC MAPPER SPECTRAL BANDS

BAND #	BANDS (µm)	GROUND RESOLUTION (METERS)
Pan	0.50 - 0.90	13 X 15
1	0.45 - 0.52	30
2	0.52 - 0.60	30
3	0.63 - 0.69	30
4	0.76 - 0.90	30
5	1.55 - 1.75	30
7	2.08 - 2.35	30
6	10.4 - 12.5	120

A proposed modification to the ETM sensor is the addition of the Thermal Infrared (TIR) capability. Geoscientists and specialists in Hydrology and Vegetative Sciences have defined commercial and research applications for TIR which include evaluation of groundwater resources, global volcanic activity, snow cover, flood and erosion, and crop yield.

THERMAL INFRA RED (TIR) OPTION (Modification to ETM)

BAND NO.	IFOV	BANDWIDTH (µm)	NEΔT (K)*
M	120	3.53 - 3.93	0.29
8	60	8.20 - 8.75	0.48
9	60	8.75 - 9.30	0.47
10	60	10.20 - 11.0	0.54
11	60	11.0 - 11.8	0.57

*Net Equivalent Delta Temperature

(continued next page)

LANDSAT PAYLOADS, continued

The Sea-viewing, Wide-Field-of-View Sensor (SeaWiFS) combines the best attributes of data gathered by the Coastal Zone Color Scanner (CZCS) (operated 1978-1986) and the Advanced Very High Resolution Radiometer (AVHRR), which is operated from a series of National Oceanic and Atmospheric Administration (NOAA) satellites.

Sea-WiFS BASELINE SPECTRAL BANDS

BAND	BAND Center	BAND Width	PURPOSE
1	443nm	20nm	Low chlorophyll
2	500nm	20nm	Other Pigments
3	565nm	20nm	Baseline Chlorophyll
4	665nm	20nm	Susurface Scattering
5*	765nm	40nm	Atmospheric correction
6	865nm	44nm	Atmospheric correction
7	11um	1.0um	Sea-surface temperature
8	12um	1.0um	Sea-surface temperature

*Blocked from 759 to 770 nm to minimize interference from the oxygen absorption band.

The combination of chlorophyll and temperature data led to expanded knowledge in oceanographic research, but a replacement system must be found for the inoperative CZCS. The data derived from co-registered ocean color and temperature information has many commercial and scientific uses. Large shipping vessels can plot counter-current movement; commercial fishing vessels can locate boundary regions between warm waters and cool upwellings---areas which harbor large quantities of marine life. Researchers are interested in SeaWiFS data as an extremely valuable tool for understanding the dynamics of the oceans; the frequency of current movement; where, when and by what amount the ocean's temperature changes; how the ocean's color relates to its carrying capacity for marine life, and other as yet undiscovered uses.

(source: Landsat Data User Notes, Sept. 1987)

ERIM REMOTE SENSING CONFERENCE

The Environmental Research Institute of Michigan has scheduled its Sixth Thematic Conference on Remote Sensing for Exploration Geology to take place May 16-19, 1988, at the Westin Galleria Hotel in Houston, TX. The conference will focus on remote sensing applications, technology, and economics. As in past conferences in this series, the meeting will seek to bridge the gap between geologists and geophysicists engaged in exploration for energy and mineral resources and research scientists from government agencies and academia. The technical program will be oriented toward practical applications of remote sensing for mineral and hydrocarbon exploration. A concerted effort will be made to gather papers that address cost benefits.

- Specific topic areas include:
- Introduction to Remote Sensing:
 - Technology and Data Availability
 - Frontier Exploration
 - Exploration in Mature Basins
 - Offshore Applications
 - Advanced Image Processing
 - Remote Sensing for the 1990's

To obtain a pre-registration form or other information, contact: Judith A. Stech, Exhibits Coordinator ERIM, Thematic Conference, P.O. Box 8618, Ann Arbor, MI 48107-8618, phone 313/994-1200 ext. 3577.



STATUS OF GEOLOGIC MAPPING – UPDATE

WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY

LEGEND

- ⊕ Aeromagnetic
- ◆ Bedrock
- ▲ Bedrock Topography
- Mineral Resources
- ◐ Pleistocene (Glacial)
- ◑ Soil Attenuation Potential

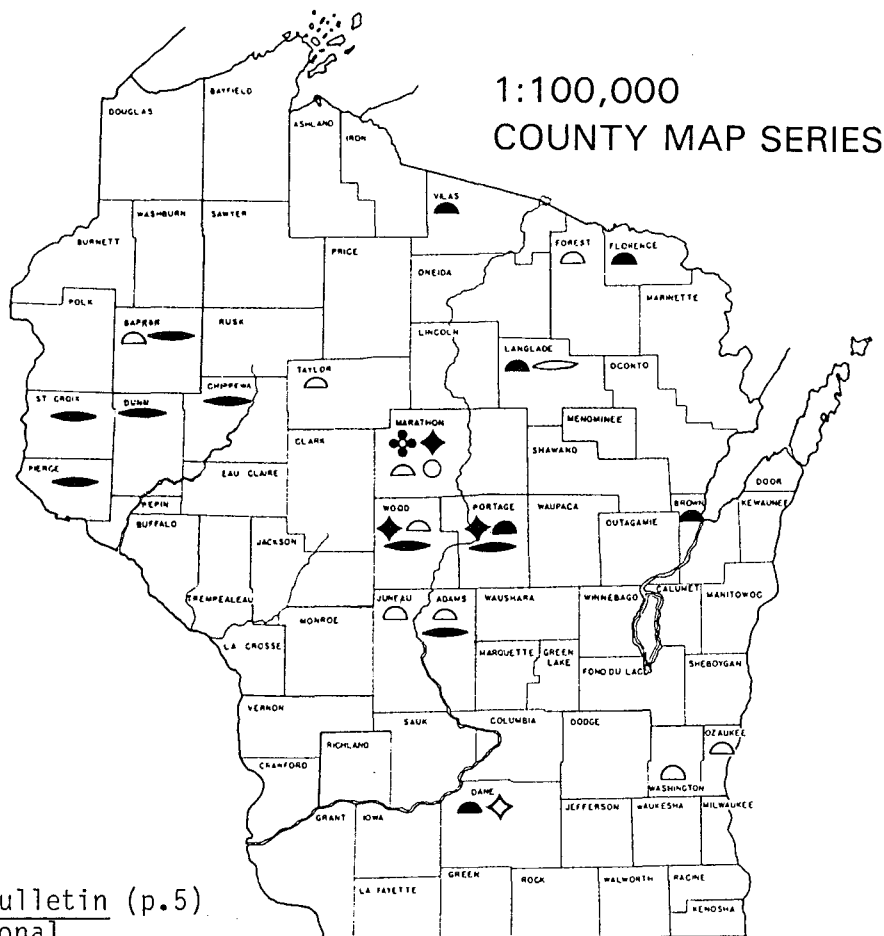
Dates of publication will vary.

◐ An unfilled symbol indicates a map in work.

Map prices may vary. For additional information contact:

Wisconsin Geological and
Natural History Survey
3817 Mineral Point Road
Madison, WI 53705
608/263-7389.

See the April, 1987 edition of the Bulletin (p.5) for the status of the 1:250,000 Regional Geological Map Series.



(map by SCO staff)

PUBLICATIONS OF INTEREST

MAPS COMMEMORATE U.S. CONSTITUTION BICENTENNIAL

To commemorate the bicentennial of the signing of the U.S. Constitution, the U.S. Geological Survey has issued a colorful map sheet titled "Maps of an Emerging Nation" illustrating the territorial growth of the United States during the past two centuries. One side of the sheet has a series of 14 maps portraying the nation's territorial development and corresponding national flags for selected years from 1775 to the present. The reverse side has a reproduction of the second edition of a map produced by Abel Buell in 1784 that shows the

United States as it existed about the time the Constitution was written. The original Buell map was the first map of the United States produced by an American.

Copies of the USGS map sheet can be purchased for \$2.50 each from the U.S. Geological Survey, Map Distribution, Box 25286, Federal Center, Denver, CO 80225. Orders should specify the map name, "Maps of an Emerging Nation," and include checks or money orders payable to the Department of the Interior--USGS. Each order for less than \$10 must include an additional \$1 for postage and handling.

(source: University of Illinois Map & Geography Library biblio newsletter, 1987 No. 4)

PUBLICATIONS OF INTEREST, continued

WISCONSIN RIVER SCENERY

A 53-page booklet titled Managing Scenic Beauty Along the Lower Wisconsin River has been published by the UW-Madison's Department of Landscape Architecture. The booklet evaluates legal mechanisms that might be used to protect the river's scenery and recommends a plan for doing so which complements a proposal by the Wisconsin DNR to establish a state forest along a 92-mile stretch of lower Wisconsin River.

For additional information contact the IES Office of Publications, Information, and Outreach, 550 N. Park Street, 15 Science Hall, UW-Madison, Madison, WI 53706, phone 608/263-3185.

(source: IES News, Nov. 1987)

ASPRS CONFERENCE PROCEEDINGS AVAILABLE

The American Society for Photogrammetry and Remote Sensing announces publication of GIS '87 - San Francisco, containing papers presented at the 1987 international conference held in October. This two-volume, 756-page set introduces the latest technology for novice and experienced users and implementors of geographic information systems. Topics range from justification and selection of a GIS to development and implementation of the system in place. Price: \$70; members: \$40. Stock No. 628D-2.

Proceedings of the Conference and Workshop on Remote Sensing Applications: Commercial Issues and Opportunities for Space Station has been published by ASPRS and contains

23 papers presented at the June 3-5, 1986 conference held in Denver, CO. Organized by the Geosat Committee, NASA, NOAA, EOSAT, ITD/SRSC and ASPRS, this conference reviews remote-sensing planning from the end-user's viewpoint. The Proceedings provide useful input to international government and industry planners in their efforts to continue developing civilian satellite remote sensing worldwide.

In addition to the papers presented, working group sessions were held on information systems, renewable resources, nonrenewable resources, oceans and atmospheres, and value-added service industry. Summary Matrices of each working group and a list of acronyms are also included in this 169 page, soft-cover book. Price: \$40; members: \$25. Stock No. 628V-1. Each of these publications can be ordered from ASPRS, 210 Little Falls Street, Falls Church, VA 22046. Bulk order discounts and review copies are available upon request.

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INFORMATION ON THE ACSM ANNUAL MEETING, to held this year in St. Louis, will be sent out in December. Members should receive the information by mid-January. Gilbert Grosvenor, chairman of the board of the National Geographic Society, will be the keynote speaker. The convention dates are March 13-18, 1988.

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STATE CARTOGRAPHER'S OFFICE,
155 SCIENCE HALL
MADISON, WI 53706-1404,
608/262-3065.

**BELOW ARE REGISTRATION FORMS FOR THE
WISCONSIN LAND INFORMATION CONFERENCE
DESCRIBED ON PAGES 1&2 OF THIS BULLETIN:**

-----SEPARATE HERE FOR HOTEL REGISTRATION-----



Radisson Hotel At Park Plaza
One North Main Street
Oshkosh, Wisconsin 54901

ROOM RATES

Single: std. \$49.00 gov't. \$39.00
Double: std. \$62.00 gov't. \$49.00
I.D. required for government rates.
IF RATE REQUESTED IS NOT AVAILABLE,
NEAREST AVAILABLE RATE WILL BE ASSIGNED.

ORGANIZATION Wisconsin Land Information Coalition

FUNCTION 1988 Conference

DATES February 25th and 26th

ALL REQUESTS FOR THE ABOVE GROUP MUST BE RECEIVED BY January 25, 1988

Please reserve accommodations for		Print or Type
NAME _____ COMPANY _____		
ADDRESS _____		
CITY _____ STATE _____ ZIP CODE _____		
PREFERRED ACCOMMODATIONS _____		NO. OF PERSONS _____
SIGNATURE _____		PHONE NUMBER _____

MONTH _____	DAY _____	YEAR _____
ARRIVAL DATE		

ARRIVAL TIME _____

MONTH _____	DAY _____	YEAR _____
DEPARTURE DATE		

CHECK IN TIME 3:00 PM
CHECK OUT TIME 12:00 PM

ACCOMMODATIONS WILL NOT BE CONFIRMED WITHOUT A CHECK FOR THE 1st NIGHT'S DEPOSIT OR USE YOUR AMEX OR DINERS CLUB CREDIT CARD # TO GUARANTEE YOUR RESERVATION. YOU WILL BE CHARGED FOR THE 1st NIGHT IF RESERVATIONS ARE NOT CANCELED 24 HOURS PRIOR TO ARRIVAL.
CREDIT CARD # _____ AMEX DINERS CLUB VISA MASTERCARD EXPIRATION DATE _____
MAKE CHECK OR MONEY ORDER PAYABLE TO RADISSON HOTEL AT PARK PLAZA, DO NOT SEND CURRENCY.

-----SEPARATE HERE FOR CONFERENCE REGISTRATION-----

ADVANCE CONFERENCE REGISTRATION WISCONSIN LAND INFORMATION COALITION
"Wisconsin Land Records Modernization, Focus on Implementation"
February 25 & 26, 1988

name: _____
address: _____
affiliation: _____

CONFERENCE FEE: \$25.00 (includes Thursday's lunch and break refreshments)

Make check payable to WIS URISA, WLIC conference and mail before January 15, 1988 to:

WLIC Land Records Conference
ATTN: William Nantell
Donohue Intelligraphics, Inc.
600 Larry Court
Waukesha, WI 53186

To assist the conference committee, please select your Educational Presentation Topics below: (listed on reverse side)		
Thurs. 3:00 pm	Thurs. 4:15 pm	Fri. 8:30 am
Topic	Topic	Topic
A	A	F
B	B	G
C	C	H
D	E	I
Select one topic from each time period.		

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