



Wisconsin  
State  
Cartographer's  
Office

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# STATE CARTOGRAPHER'S OFFICE ANNUAL REPORT 2018-19



**HAYDEN ELZA**  
Information Processing Consultant

**BRENDA HEMSTEAD**  
Data Services Specialist

**MELANIE KOHLS**  
Outreach Specialist

**JIM LACY**  
Associate State Cartographer

**CODIE SEE**  
Program Specialist  
Aloha, Codie!

**HOWARD VEREGIN**  
State Cartographer

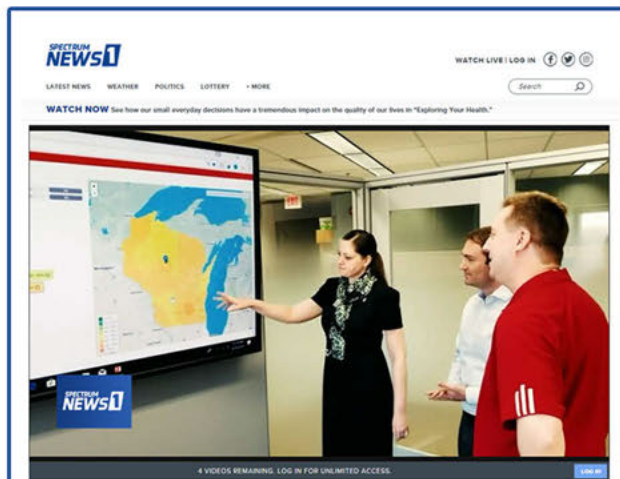
**DAVID VOGEL**  
Research Specialist

**ANA WELLS**  
Research Specialist

**WISCONSIN STATE  
CARTOGRAPHER'S  
OFFICE  
*DRAMATIS PERSONAE***



# SCO IN THE NEWS



## UW Researchers create statewide Antibiotic Resistant Tracking Map for medical providers

BY KATHY LARSON | WISCONSIN

PUBLISHED 5:45 PM ET MAY 16, 2019

MADISON (SPECTRUM NEWS) — All across Wisconsin, antibiotics are losing their effectiveness and making it that much harder for medical providers to prescribe the perfect antibiotic. Luckily, a talented group of UW researchers are being praised for giving medical providers a prototype antibiotic resistant road map.

Four years ago, UW Global Health Interim Director Laurel Legenza put her finger on the problem, state records on antibiotic drug resistance were found in confusing tables.

"They were difficult to find and difficult to access," she said.

So UW's School of Pharmacy decided to partner with the School of Geography to find something more user friendly.

"By geographically coding the data," Legenza said. All to showcase

going from point a to point b, but this is also a great way to

understand what's going on across the globe," Legenza said.

On the map there are distinct patterns when it comes to

like pollution, waterways and urban density."

to the region, but certainly we know that antibiotic

School of Pharmacy Professor Warren Rose said. That's

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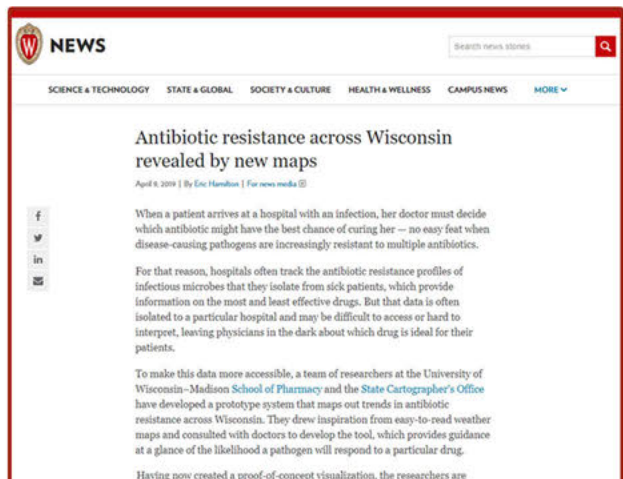
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## Antibiotic resistance across Wisconsin revealed by new maps

April 9, 2019 | By Eric Handman | For news media

When a patient arrives at a hospital with an infection, her doctor must decide which antibiotic might have the best chance of curing her — no easy feat when disease-causing pathogens are increasingly resistant to multiple antibiotics.

For that reason, hospitals often track the antibiotic resistance profiles of infectious microbes that they isolate from sick patients, which provide information on the most and least effective drugs. But that data is often isolated to a particular hospital and may be difficult to access or hard to interpret, leaving physicians in the dark about which drug is ideal for their patients.

To make this data more accessible, a team of researchers at the University of Wisconsin—Madison School of Pharmacy and the State Cartographer's Office have developed a prototype system that maps out trends in antibiotic resistance across Wisconsin. They drew inspiration from easy-to-read weather maps and consulted with doctors to develop the tool, which provides guidance at a glance of the likelihood a pathogen will respond to a particular drug.

Having now created a proof-of-concept visualization, the researchers are pursuing finer-grained location data while partnering with hospitals to determine how their new tool, named AMR Tracker, can be incorporated into physician workflows in the future. The researchers published their work online April 1 in the journal *Antimicrobial Agents and Chemotherapy*.

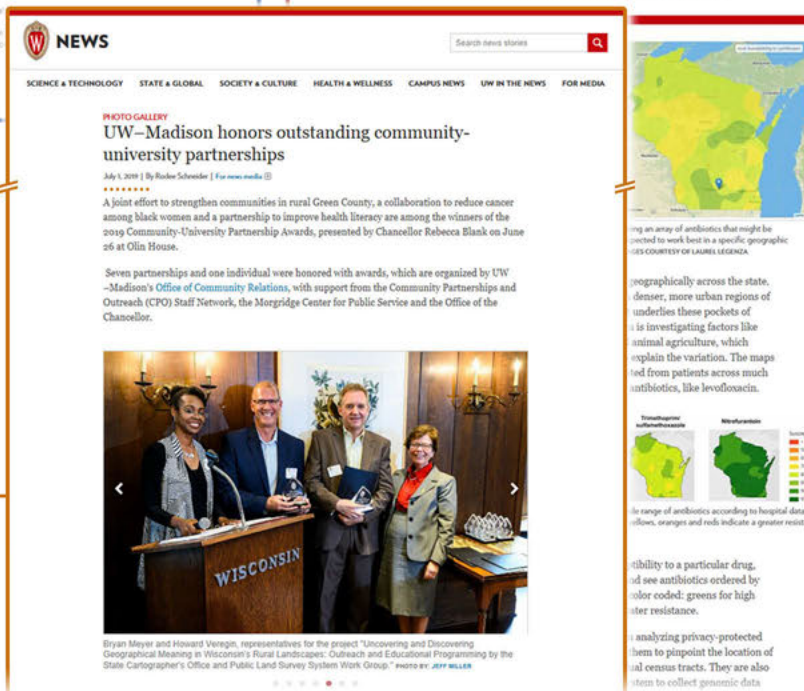
"With antibiotic resistance, we've seen this problem grow very slowly over the past century, and it's an enormous threat," says Laurel Legenza, an assistant scientist and interim director of global health at the UW—Madison School of Pharmacy, who led the work. "We know there's an opportunity to improve by selecting an antibiotic that considers the local antibiotic resistance trend. And that's really the heart of the project, is to provide data in a visualization that would improve its use and application directly to patient care."



Laurel Legenza

The research team analyzed 202 antibiograms — tables of antibiotic resistance — from Wisconsin hospitals collected between 2009 and 2015, which documented the susceptibility of 200,000 strains of the pathogenic bacterium *Escherichia coli* to seven classes or combinations of drugs. Plotted on a map of the state, the data created discrete points that then had to be stitched together to produce broad regions of antibiotic susceptibility using cartographic methods contributed by Jim Lacy, Codie See and others at the State Cartographer's Office.

"It's incredible what two disciplines can do together that otherwise they wouldn't do on their own," Legenza says of the collaboration between pharmacists and cartographers. Professors of pharmacy Susanne Barnett and Warren Rose also guided the project.



## UW-Madison honors outstanding community-university partnerships

July 1, 2019 | By Rachel Schneider | For news media

A joint effort to strengthen communities in rural Green County, a collaboration to reduce cancer among black women and a partnership to improve health literacy are among the winners of the 2019 Community-University Partnership Awards, presented by Chancellor Rebecca Blank on June 26 at Olin House.

Seven partnerships and one individual were honored with awards, which are organized by UW—Madison's Office of Community Relations, with support from the Community Partnerships and Outreach (CPO) Staff Network, the Morgridge Center for Public Service and the Office of the Chancellor.



Bryan Meyer and Howard Voregin, representatives for the project "Uncovering and Discovering Geographical Meaning in Wisconsin's Rural Landscapes: Outreach and Educational Programming by the State Cartographer's Office and Public Land Survey System Work Group," were one of the winners.



ing an array of antibiotics that might be used to work best in a specific geographic

US COURTESY OF LAUREL LEGENZA

geographically across the state,

denser, more urban regions of

underlies these pockets of

is investigating factors like

animal agriculture, which

explain the variation. The maps

ted from patients across much

antibiotics, like levofloxacin.

ability to a particular drug.

ad see antibiotics ordered by

color coded: greens for high

ter resistance.

analyzing privacy-protected

hem to pinpoint the location of

al census tracts. They are also

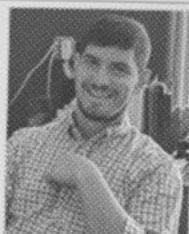
stem to collect genomic data

# CLASS OF FY19

(SCO STUDENT ASSISTANTS)



**AUSTIN COPPERNOLL**  
Undergraduate, Geography,  
UW-Madison. SCO GIS  
Developer, Dec 2016–Aug  
2018. GIS Analyst at  
Floating Point FX.



**NICK EXLEY**  
Accelerated Masters in  
Cartography/GIS,  
Geography, UW-Madison.  
SCO GIS Intern, May–Aug  
2018.

Photo  
Not  
Available

**RYAN HALTON**  
Accelerated Masters in  
Cartography/GIS,  
Geography, UW-Madison.  
SCO GIS Technician, Dec  
2016–Feb 2019. GIS  
Technician at Madison Gas  
and Electric.



**HOLLY (XINJI) LIU**  
Ph.D. student, Geography,  
UW-Madison. SCO  
Application Developer,  
May 2019+



**JEFFREY PICCIRILLO**  
Computer Science  
Certificate, UW-Madison.  
SCO GIS developer, Dec  
2017–Aug 2018. GIS  
Developer, Austin TX.



**NISHIGANDHA SONTAKKE**  
Accelerated Masters in  
Cartography/GIS,  
Geography, UW-Madison.  
SCO GISPP Intern, Sept  
2018+



**ALEX CAMPBELL**  
Undergraduate, Geography,  
UW-Madison. SCO GIS  
Developer, Sept 2018–May  
2019. Platform Engineer  
at Esri.



**ANDREA EIBERGEN**  
Undergraduate,  
Geography, UW-Madison.  
SCO GIS Developer, Nov  
2017–Aug 2018. Intern at  
TDS Telecommunications.



**CLAYTON GROTH**  
Masters in GIS & Web Map  
Programming, Geography,  
UW-Madison. SCO GIS  
Developer, Sept 2018–  
March 2019.



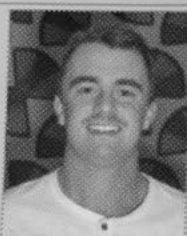
**MIKE HRUSKA**  
GIS Capstone Certificate,  
Geography, UW-Madison.  
SCO GIS Technician, Jan–  
Aug 2018.



**JOE MARKS**  
Accelerated Masters in  
Cartography/GIS,  
Geography, UW-Madison.  
SCO GIS Developer, April  
2019+



**BEN SEGAL**  
Undergraduate, Geography,  
UW-Madison. SCO GIS  
Developer, June 2017–May  
2019. Intern at Esri.



**ELIAS WILZ**  
Professional Masters in  
Environmental Observation  
and Informatics, Nelson  
Institute, UW-Madison.  
SCO GIS Developer, May  
2019+

## STUDENT ACADEMIC ADVISING



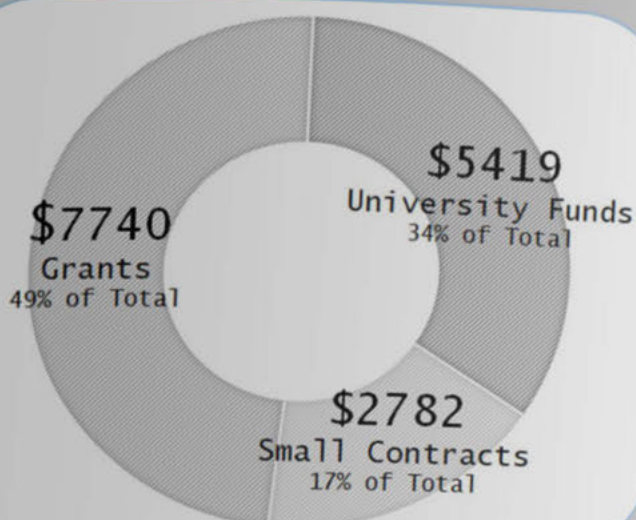
### BEN SEGAL

Directed study, Spring 2019.  
Project: GIS server operations and  
Python data processing.  
Advisor: Mr. J. Lacy



### NISHIGANDHA SONTAKKE

GISPP Accelerated Masters Final  
Project, Summer 2019.  
Project: Flooding risk "blue spots"  
mapping using parcel, structure and  
building assessment data.  
Advisor: Dr. H. Veregin



## STUDENT FUNDING

Our student assistants are supported with funding from various sources, including an annual university funding allocation, funds from small contracts and revenue-generating activities, and external grants.

The GIS Professional Programs in Geography also funds one intern through their fellowship program.

## OUR ALUMNI

We have provided service-learning opportunities for UW-Madison students since 1974. We deeply value the importance of connecting students to real-world problems as they begin their school-to-career transition. We are exceptionally proud of the many successful students and staff who have worked with us over the decades!

If you are an SCO alum, please send us a note and let us know what you are up to!

[www.sco.wisc.edu/sco/alumni](http://www.sco.wisc.edu/sco/alumni)

### STATE CARTOGRAPHER'S OFFICE ALUMNI

NAME	POSITION	LOCATION	ERA
Bancroft-Short, Dawson	Geospatial Analyst at Continental Mapping Consultants	Sun Prairie, WI	Alumni - 2010s
Bougie, Matt		Madison, WI	Alumni - 2010s
Bricknell, Michael	Cartographer at Rowan Technologies Solutions LLC	New York, NY	Alumni - 2010s
Campbell, Alex	Platform Engineer at Esri	Denver, CO	Alumni - 2010s
Coppemoll, Austin	GIS Analyst at Floating Point FX	Madison, WI	Alumni - 2010s
Czaplewski, John	Programmer Analyst, Department of Geosciences - UW-Madison	Madison, WI	Alumni - 2010s
Donahue, Patrick	Food and dairy Sanitarian at Wisconsin Department of Agriculture, Trade and Consumer Protection	Madison, WI	Alumni - 2010s
Duffin, Kirstin	Reference Librarian, Eastern Illinois University		Alumni - 2010s
Eibergen, Andrea	GIS Intern at TDS Telecommunications	Madison, WI	Alumni - 2010s
Evjen, Molly	Program Assistant at Share	Vancouver, WA	Alumni - 2010s
Exley, Nick		Madison, WI	Alumni - 2010s
Gregg, Josh	GIS Specialist at U.S. Forest Service	Albuquerque, NM	Alumni - 2010s
Grisbeck, Derek	GIS Technician, de maximis Data Management Solutions	St. Paul, MN	Alumni - 2010s
Groth, Clayton			Alumni - 2010s
Halton, Ryan		Boston, MA	Alumni - 2010s
Hao, Shuguang	Software Engineer at TripAdvisor		Alumni - 2010s

Showing 1 to 25 of 253 entries

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## Grants, Contracts and Funding Sources

### Grants ending in FY19



#### Statewide Parcel (V3/V4) and PLSS (E0) Databases

Collaboration with Wisconsin Dept of Administration Land Information Program and county Land Information Offices

\$234K from Wisconsin Dept of Administration  
Jan 2017 to Dec 2018

[doa.wi.gov/Pages/LocalGovtsGrants/Parcel-Initiative.aspx](http://doa.wi.gov/Pages/LocalGovtsGrants/Parcel-Initiative.aspx)



#### Lifemapping

Collaboration with Dean Olsen, UW Cart Lab, Earthling Interactive & KW2 Marketing to develop beta version of Lifemapping software.

Portion of a larger \$200K project funded by D2P  
Jan 2017 to Dec 2018

### Grants starting in FY19



#### Statewide Parcel (V5) and PLSS (E1) Databases

Collaboration with Wisconsin Dept of Administration Land Information Program and county Land Information Offices

\$123K from Wisconsin Dept of Administration  
Jan 2019 to Dec 2019

[doa.wi.gov/Pages/LocalGovtsGrants/Parcel-Initiative.aspx](http://doa.wi.gov/Pages/LocalGovtsGrants/Parcel-Initiative.aspx)



#### Coastal Hazard Mapping Community of Practice

Collaboration with Wisconsin Dept of Administration Coastal Management Program

\$242K from WI Coastal Management Program and National Oceanic and Atmospheric Administration  
Oct 2018 to March 2020



#### Antimicrobial Resistance Mapping

Collaboration with UW-Madison School of Pharmacy, UW-Madison Dept. of Geography and the Marshfield Clinic

Portion of \$74K grant from UW Institute for Clinical and Translational Research

### Grants starting in FY20



#### Statewide Parcel (V6) and PLSS (E2) Databases

Collaboration with Wisconsin Dept of Administration Land Information Program and county Land Information Offices

\$128K from Wisconsin Dept of Administration  
Jan 2020 to Dec 2020

[doa.wi.gov/Pages/LocalGovtsGrants/Parcel-Initiative.aspx](http://doa.wi.gov/Pages/LocalGovtsGrants/Parcel-Initiative.aspx)

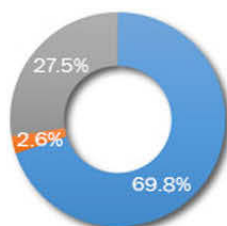


#### Access to Digital Geographic Data in Wisconsin

Collaboration with UW-Madison Robinson Map Library

\$21K from Wisconsin Dept of Administration Coastal Management Program  
July 2019 to June 2020

### SCO funding sources for FY19



University funds – \$334.7K  
Revenue-generating projects – \$12.6K  
Grants and contracts – \$131.9K  
TOTAL – \$479.2K

The State Cartographer's Office is a special program at UW-Madison created by state statute in 1974. The office is affiliated with the Department of Geography in the College of Letters & Science.

We receive an annual base budget allocation from the College for personnel, students and operating expenses. Additional financial support from the UW-Madison Division of Continuing Studies facilitates our outreach mission. We fill the remainder of our funding needs through external grants and contracts.

# Big Projects\*

## Statewide Parcels

Completed & released new versions of the statewide database and app. Updated county validation tools. Staff: See, Vogel, Wells, Veregin. Students: Campbell, Coppernoll, Groth, Halton, Hruska, Segal.

## Statewide PLSS

Completed beta version and commenced work on E1 of the statewide database. Staff: Elza, Hemstead, See, Vogel, Wells, Veregin. Students: Campbell, Coppernoll, Groth, Halton, Segal.

## Coastal Hazard Mapping

Began work on NOAA Project of Special Merit to develop a coastal hazard mapping community of practice. Collaboration with WI Coastal Management Program and State GIO. Staff: Elza, Kohls, Veregin.

## Antimicrobial Resistance

Map and analyze patterns of pathogen resistance in the state. Staff: Lacy. Students: Eibergen, Liu, Marks, Piccirillo, Segal.

## GeoData@Wisconsin Geoportal

Overhaul existing geoportal with new user interface, data holdings and workflows. Staff: Lacy.

\* See Grants, Contracts & Funding page for information on partners and sponsors.

# Initiatives

## WSRS2022

Prepare for the new 2022 terrestrial reference frame and vertical datum. Staff: Hemstead, Lacy, Veregin.

## PLSS Work Group

Education and advocacy for the state's Public Land Survey System infrastructure. Staff: Hemstead, Veregin.

## Wisconsin-Minnesota Boundary

Work with county surveyors (and others) to establish the location of the Wisconsin-Minnesota boundary in the Mississippi River. Staff: Hemstead, Lacy, Veregin.

# Smaller Projects

## Urban-Rural Web App

Built custom web app for the Office of Rural Health. Staff: See. Students: Liu, Marks.

## Parcel-Land Use Analysis

Performed custom land use analysis for statewide parcel database for Aldo Leopold Foundation. Staff: Vogel. Student: Sontakke.

## Nitrate Contamination Quality Assessment

Performed quality assessment of nitrate contamination study for groundwater in Rock County. Staff: Veregin, Wells. Student: Sontakke.

## LiDAR Data and Education

Conducted LiDAR data workshop, updated workshop materials to ArcPro, loaded/cataloged LiDAR to to WisconsinView, built/enhanced data discovery/access features for LiDAR data. Staff: Elza, Veregin, Wells. Student: Sontakke.

# App Updates

## Survey Control Finder

Staff: Hemstead, See. Students: Coppernoll, Groth, Piccirillo, Segal.

## Coastal Bordner Explorer

Includes updates to historic county air photo mosaics. Staff: Lacy, See. Students: Coppernoll, Halton, Hruska, Piccirillo.

## Wisconsin Bearing Trees

Staff: Hemstead, See, Veregin. Students: Groth, Halton, Marks.

## WHAIFinder

Staff: Lacy, See. Students: Groth, Marks, Segal.

## Pronounce Wisconsin

Staff: See, Veregin. Students: Marks, Segal.

## Air Photo Catalog

Staff: Lacy. Students: Wilz.

**WHAIFINDER** Free online access to view and download over **38,000 historic aerial photographs** of Wisconsin from the 1930s. Originally funded by the **Baldwin Wisconsin Idea Endowment** at UW-Madison. Collaborators include the SCO, the **Robinson Map Library**, **UW Digital Collections Center** and the **Wisconsin Department of Transportation**.

In 2018-19 numerous updates were made to provide a more intuitive interface, improve database quality, eliminate obsolete records and streamline the process for managing database updates.

*SCO Student Assistants: Clayton Groth, Joe Marks, Ben Segal*

**STATEWIDE PARCEL MAP VIEWER** Access to view, query and download GIS files of **Wisconsin's 3.5 million-plus tax parcels**. Produced by the Statewide Parcel Map Database project, a multi-year collaboration between the SCO, the **Wisconsin Land Information Program** and **county Land Information Offices**.

The app and the data underneath the app were last updated in June, 2019.

*SCO Student Assistants: Alex Campbell, Austin Coppernoll, Clayton Groth, Ryan Halton, Michael Hruska, Ben Segal*

**WISCONSIN BEARING TREES** Photos and other information on **Wisconsin's known remaining bearing trees**, identified in the General Land Office survey of the state starting in the 1830s to tie to the locations of Public Land Survey System corners. This app is a **volunteer effort** with photos and information supplied by users.

The app was rewritten in 2018-19 to make better use of web mapping technology.

*Student Assistant: Clayton Groth, Ryan Halton, Joe Marks*

**SURVEY CONTROL FINDER** Central point of access to over **28,000 control points** and over **200,000 Public Land Survey System corner records** in Wisconsin. Includes federal, state and local control data as well as Continuously Operating Reference Stations (CORS). Partners include **County Surveyors**, **County Land Information Officers**, the **Wisconsin Department of Transportation** and the **National Geodetic Survey**.

The app was recently rewritten and operational improvements continue to be made.

*Student Assistants: Austin Coppernoll, Clayton Groth, Jeffrey Piccirillo, Ben Segal*

**COASTAL BORDNER SURVEY EXPLORER** Access to thousands of polygon, line and point features digitized from **1930s Wisconsin Land Economic Inventory ("Bordner Survey") maps** within Wisconsin's coastal regions, as well as selected 1930s-era air photo county mosaics. Data can be viewed, queried, or downloaded. A collaborative project between the SCO and the **UW-Madison Forest Landscape Ecology Lab**. Funded through a grant from the **Wisconsin Coastal Management Program**.

Twenty-eight new county air photo mosaics were added in 2018 as well as recently digitized data in non-coastal areas.

*SCO Student Assistants: Austin Coppernoll, Ryan Halton, Mike Hruska, Jeffrey Piccirillo*

**AERIAL PHOTOGRAPHY CATALOG** Directory of **historic and current Wisconsin aerial photography** dating back to the late **1920s** that serves as the main online index for holdings of the **Robinson Map Library**, the largest repository of aerial photography in the state.

With a newly designed interface, the app is undergoing a migration to a new database platform.

*Student Assistants: Eli Wilz*



# STATE CARTOGRAPHER'S OFFICE

University of Wisconsin-Madison

## SCO WEB APPLICATIONS



WHAIFINDER



STATEWIDE  
PARCEL MAP  
VIEWER



GEODATA  
@WISCONSIN



SURVEY  
CONTROL  
FINDER



WISCONSIN  
BEARING TREES



PRONOUNCE  
WISCONSIN



COASTAL  
BORDNER  
SURVEY  
EXPLORER



AERIAL  
PHOTOGRAPHY  
CATALOG



AERIAL IMAGERY  
ACQUISITION  
PLANS

### GEODATA@WISCONSIN

Portal for GIS data discovery for use in teaching, learning, research or general interest. Developed and maintained by the **Robinson Map Library** and the SCO. There are several **thousand publicly-accessible holdings** in GeoData.

A 2019-20 grant from the **Wisconsin Coastal Management Program** will support enhancements to the GeoData platform, interface and holdings.

### PRONOUNCE WISCONSIN

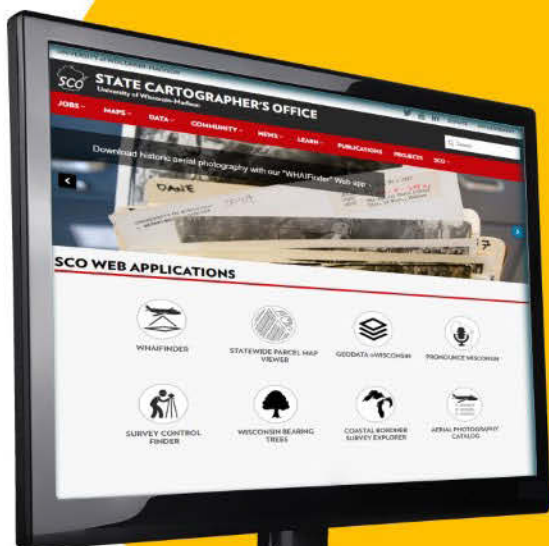
Online pronouncing gazetteer that speaks Wisconsin place names. Gives **pronunciations for about 1700 places** in the state, including counties, cities, villages and unincorporated communities. A collaborative effort between the SCO and **Jackie Johnson**, creator of **MissPronouncer.com**.

The app was completely rewritten in 2018-19.

*Student Assistants: Joe Marks, Ben Segal*

### AERIAL PHOTOGRAPHY ACQUISITION PLANS

Shows **recent and planned aerial imagery acquisition projects** in Wisconsin, based on information supplied in County Land Information Program Plans.



Find our  
apps at  
**sco.wisc.edu**



**Presentations  
by SCO Staff**

#### Events Organized by the SCO

1. We organized the 9th annual UW-Madison Geospatial Summit in partnership with the GIS Professional Programs in the Geography Dept at UW-Madison. The day-long event in November 2018 included a career fair and attracted 160 people.

2. We held a LiDAR training workshop in Science Hall in August, 2018. Our partners include Jim Giglierano, Wisconsin Geographic Information Officer, and Joel Nelson from the University of Minnesota.

3. We organized the annual Presidents Council meeting. The Council was established in 1996 to improve communication amongst associations in the state having a stake in land information.

4. With the PLSS Workgroup we organized our 5th Public Land Survey System Forum. The day-long event was held in Darlington and attracted 120 people, including 41 county employees and 11 county board members.

5. We held several meetings of the new Wisconsin Spatial Reference System 2022 Task Force (WSRS2022) organized under the Wisconsin Society of Land Surveyors. The mission of WSRS2022 is to ensure successful implementation of the National Geodetic Survey's new reference systems coming in 2022. Howard Veregin is Chair of WSRS2022 and Brenda Hemstead and Jim Lacy head up two Focus Groups.

6. Jim Lacy was lead organizer of the Fall 2018 Wisconsin Land Information Association Regional Meeting in Sturgeon Bay. Founded in 1987, WLIA is the state's largest geospatial organization.



1



2



3



4



5



6



## ASSOCIATIONS, AGENCIES & ORGANIZATIONS

ORG NAME

BIG TEN ACADEMIC ALLIANCE  
MGIS PROGRAM, UNIV OF MINNESOTA  
NATIONAL STATES GEOG INFO COUNCIL  
PUBLIC LAND SURVEY SYSTEM WORKGROUP  
STATE AGENCY GEOSPATIAL INFO COMMITTEE  
WI COUNTY SURVEYORS ASSOC  
WI DEPT OF ADMINISTRATION, COASTAL MGMT PROGRAM  
WI DEPT OF ADMINISTRATION, LAND INFO PROGRAM  
WI DEPT OF ADMINISTRATION, LAND INFO MAPPING  
...  
WI DEPT OF TRANSPORTATION SURVEYING & MAPPING  
WI GEOGRAPHIC NAMES COMMITTEE  
WI LAND INFO ASSOC  
WI LAND INFO ASSOC  
...  
...  
WI LAND INFO COUNCIL  
WI LAND INFO OFFICERS NETWORK  
WI PRESIDENTS COUNCIL  
WI SPATIAL REFERENCE SYSTEM 2022 TASK FORCE  
WI SPATIAL REFERENCE SYSTEM 2022 TASK FORCE  
WI SOCIETY OF LAND SURVEYORS

SCO STAFF

LACY  
VEREGIN  
VEREGIN  
HEMSTEAD, VEREGIN  
LACY  
HEMSTEAD  
ELZA, KOHLS, VEREGIN  
ELZA, HEMSTEAD, SEE,  
VEREGIN, VOGEL, WELLS  
HEMSTEAD  
VEREGIN  
HEMSTEAD  
LACY  
...  
...  
VEREGIN  
VEREGIN  
LACY, VEREGIN  
VEREGIN  
HEMSTEAD, LACY  
HEMSTEAD

ROLE

TASK FORCE MEMBER  
ADVISORY BOARD MEMBER  
STATE REP  
MEMBERS  
SCO REP  
SCO REP  
PROJECT PARTNERS  
PROJECT PARTNERS  
...  
SCO LIAISON  
EX OFFICIO MEMBER  
CONFERENCE COMMITTEE  
BOARD OF DIRECTORS,  
NOMINATIONS COMMITTEE,  
OUTREACH/MEMBERSHIP COMMITTEE,  
EDUCATION COMMITTEE  
EX OFFICIO MEMBER  
SCO REP  
SCO REPS  
CHAIR  
TASK FORCE LEADS  
WEBSITE COMMITTEE, SCO LIAISON



## UNIVERSITY & DEPARTMENT COMMITTEES

COMMITTEE NAME

COLLEGE OF LETTERS & SCIENCE WKPLACE CLIMATE CMTE  
DEPT OF GEOGRAPHY WKPLACE CLIMATE CMTE  
DEPT OF GEOGRAPHY DEVT CMTE  
DEPT OF GEOGRAPHY FINANCE CMTE  
DEPT OF GEOGRAPHY GEOCOMPUTING CMTE  
DEPT OF GEOGRAPHY SERVICES CMTE  
SCIENCE HALL BUILDING CMTE  
UW-MADISON STAFF COMMUNICATIONS CMTE  
UW-MADISON PROFESSIONAL DEVT & RECOGNITION CMTE  
UW-MADISON TITLE & TOTAL COMPENSATION PROJECT

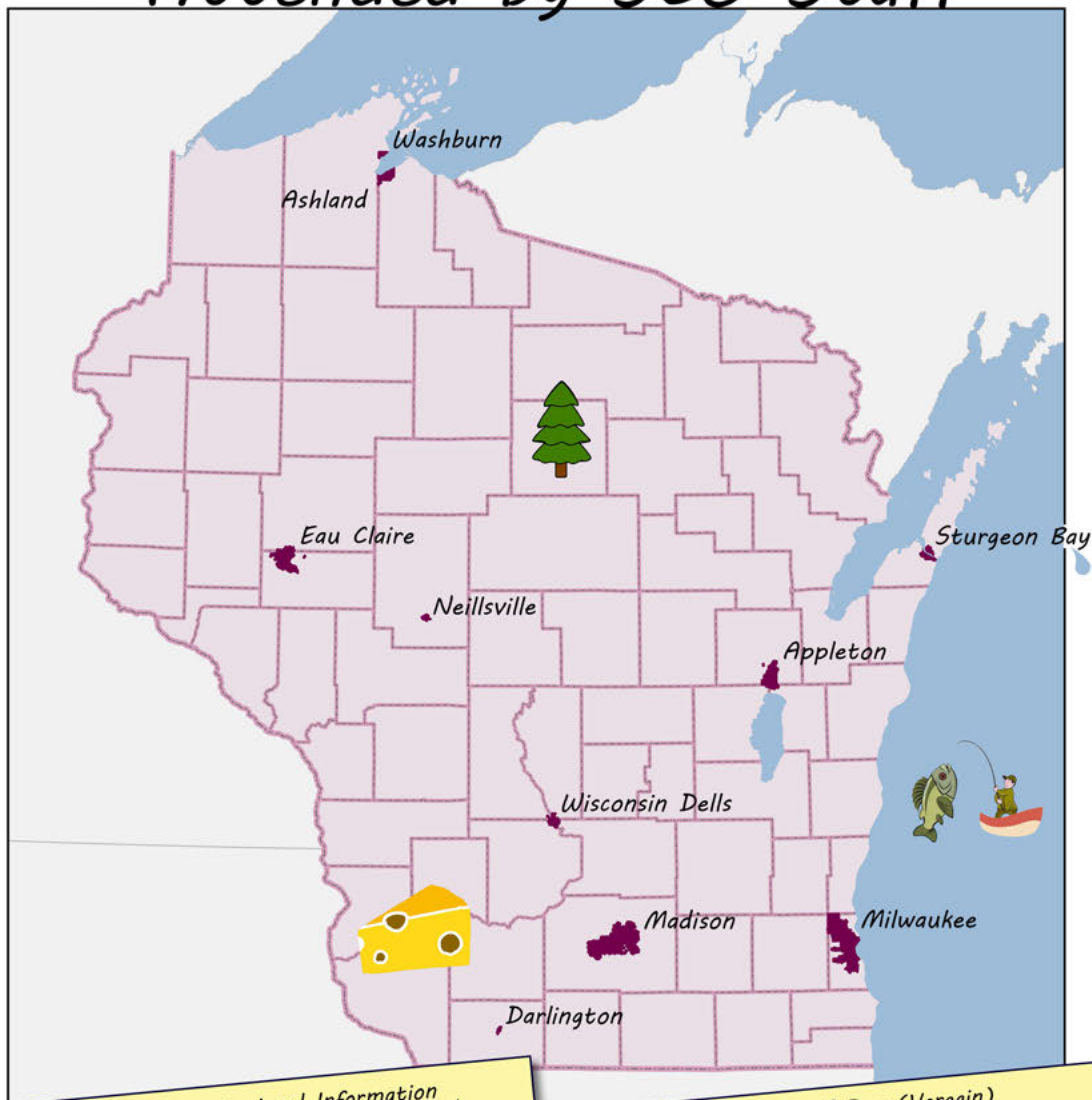
SCO STAFF

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MEMBER, CHAIR  
POSITION DESCRIPTION REVIEWER

# Conferences and Meetings Attended by SCO Staff



**Appleton, Feb 2019:** Wisconsin Land Information Association Conference (Hemstead, Lacy, See, Vogel, Veregin, Wells); Wisconsin Land Information System 2022 (Veregin); Wisconsin Spatial Reference System 2022 Task Force Meeting (Hemstead, Lacy, Veregin); Land Information Officers Network Meeting (Lacy, Veregin)

**Ashland, May 2019:** Great Lakes Coastal Managers Meeting (Elza, Kohls); Northern Area GIS Users Group Meeting (Elza, Kohls)

**Darlington, April 2019:** Annual Public Land Survey System Forum (Hemstead, Veregin)

**Eau Claire, May 2019:** Wisconsin Land Information Association Conference (Veregin)

**Madison:** NATRF2022 Discovery Team Meeting, Aug 2018 (Hemstead, Veregin); UW-Madison Geospatial Summit, Nov 2018 (Hemstead, Lacy, See, Vogel, Veregin, Wells); Wisconsin Geographic Names Committee, Jan 2019 (Veregin); Wisconsin Presidents Council, March 2019 (Lacy, Veregin); WISCORS Public Hearing, April 2019 (Hemstead, Veregin); Wisconsin Spatial Reference System 2022 Task Force Meeting, June 2019 (Hemstead, Lacy, Veregin); Wisconsin Land Information Council, June 2019 (Veregin)

**Milwaukee, Nov 2019:** GIS Day (Veregin)  
**Neillsville:** Wisconsin County Surveyors Association Board Meetings, 2018-19 (Hemstead)

**Sturgeon Bay, Oct 2018:** Wisconsin Land Information Association Conference (Elza, Lacy, See, Veregin); Wisconsin Land Information Council (Veregin)

**Washburn, April 2019:** Breaking the Cycle of Flood Damage Workshop (Elza)

**Wisconsin Dells, Jan 2019:** Wisconsin Society of Land Surveyors Institute (Hemstead, Veregin); Wisconsin County Surveyors Association Membership Meeting (Hemstead); Wisconsin Spatial Reference System 2022 Task Force Meeting (Hemstead, Veregin)

## Out-of-State

**Charleston, SC, April 2019:** NOAA Fellow Matching Workshop (Elza)

**San Diego, CA, April 2019:** FOSS4G NA (Elza)

**Silver Spring, MD, May 2019:** National Geodetic Survey Geospatial Summit (Veregin)



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