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# NASA Northeast Regional Applications Workshop



**October 26-28, 2000  
Skaneateles, NY**

## General Information

The Regional Applications Center for the Northeast (RACNE) invites you to the NASA-RACNE Northeast Regional Applications Workshop, October 26-28, 2000. Workshop participants will include key representatives from the 14-state region ranging from Minnesota to Maine and Indiana to New Jersey. A Steering Committee, comprised of at least one official from each of these 14 states, has designed an informative, intensive, and collaborative workshop.

Expect several benefits from attending the workshop. First, you will learn about emerging NASA satellite data and technology. You'll learn about remote sensing programs in other federal agencies and about services from the private sector. You will have the unique opportunity to learn about and help NASA design its new initiative to help SLT governments apply these data and technologies to practical problems and needs. You will meet, work with, and learn from other leading state, local and tribal officials who have been nominated to attend this unique event.

NASA hopes you will come prepared to describe your highest priority problems, and to tell us what you would want to see in a successful partnership between NASA, state, local, and tribal governments. You do not have to be a remote sensing expert. Come to share your ideas and concerns. Your input is critical to the success of these efforts, and NASA and RACNE aim to listen, and then to focus their efforts to meet your needs.

NASA's goals for the workshop are to familiarize state, local, and tribal officials with:

- NASA's earth systems program, and its current and future activities;
- where data, software and technical support can be found;
- who is using remote sensing information in the region and how they might collaborate with each other.

At the same time, NASA wants to gain a direct understanding from participants of:

- who the major geographic information users are and how they can best be reached;
- what the geographic and spatial information requirements are for each group;
- the current status of the use of remote sensing science and data;
- how NASA might help state, local, and tribal groups effectively use remotely sensed information over the next five years.

## Location

The workshop will be held at [Wm. Noah Allyn International Center for Training and Development](#) in Skaneateles, New York, 35 minutes from the [Syracuse airport](#). Lodging is available in nearby Auburn, NY. Auburn and Skaneateles are located in the heart of the beautiful Finger Lakes region of upstate New York. Located nearby are prize-winning vineyards; natural areas such as Watkins Glen; historic attractions such as the Harriet Tubman Home and the Women's Rights National Historical Park.

## Lodging

Lodging is available at the Auburn Holiday Inn, 75 North St., Auburn, NY, a [short ride](#) from the workshop location. Request the NE NASA conference rate of \$59 (plus 11% tax) per standard room, and be sure to mention the group reservation code of **RAC**. Phone (315)253-4531, or (800)HOLIDAY.

## **Recreational Opportunities**

### **Seneca Lake Winery Tour**

The Finger Lakes Region produces 85% of all wine in New York State. It is the second largest wine producer in the United States, with quality second to none. A Saturday afternoon tour will stop at several of the region's fine wineries. \$65 fee.

### **Historic Sites Tour**

Visit Underground Railway leader Harriet Tubman's home, the William Seward mansion-champion of purchase of Alaska from Russia, and Willard Chapel, the only complete religious interior designed by Louis Comfort Tiffany. \$15 fee.

### **Fort Hill Cemetery Walking Tour**

Come join us for an evening with Auburn's historical elite, like William Seward, Harriet Tubman, and Theodore Case. The walking tour begins at Bradley Chapel on Fort St., and winds through the Fort Hill Cemetery. Bring a flashlight. \$5 fee.

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## Background Information

NASA has several Earth observing satellites in operation and under development that provide advanced scientific and technical information. NASA, as the nation's lead space research agency, does not provide access to this data on a routine operational basis (that is the responsibility of NOAA, USGS, and others). NASA does develop scientific information and technology that can provide information to help make better, more timely and more cost effective decisions in the areas of:

- land use/ land cover mapping, community planning, and growth management;
- environmental analysis;
- resource management- forestry, agriculture and watersheds;
- disaster risk analysis, disaster preparation and mitigation;
- transportation network planning, maintenance, construction, and operations.

NASA's new initiative aims to empower state, local, and tribal governments to apply GIS and remote sensing technology to the solution of practical, real world problems. This workshop is one of four to be held around the United States this year to help NASA learn about state, local, and tribal missions, needs and applications.

## Elements of NASA's State, Local and Tribal Initiative

This new NASA initiative will unfold over the next five years. It will focus on developing partnerships with state, local, and tribal government to demonstrate better ways to apply NASA science and technology to current geospatial problems at the state, local, and tribal levels. For example, NASA plans to support the development of pilot projects that:

- demonstrate the usefulness of remote sensing to state, local, and tribal groups that want to make decisions and manage resources better;
- identify new commercial products or services that can be used at multiple levels of government;
- facilitate better regional support networks and resources to make more effective use of remote sensing information in useful applications;
- encourage education and training of professionals to work with remote sensing data and applications.

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Click for information on: [Syracuse Airport Shuttle](#)

## Directions to Auburn Holiday Inn and Microtel

**From South:** Take I-81 North to Exit 15 (Lafayette), which is Rte. 20. Travel West until you reach the city of Auburn. Turn right onto Route 34 for the Holiday Inn. For the Microtel Inn and Suites, Route 20 joins Route 5 as you enter Auburn. Seminary Ave. crosses Routes 5 / 20 shortly after.

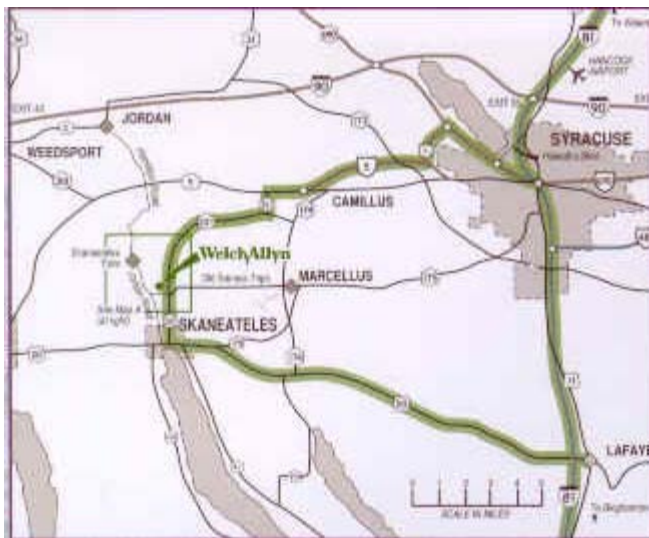
**From East:** Take I-90 (Thruway) West to Exit 40 (Weedsport). Turn right on Rte. 34 and follow Route 34 to Auburn. The Holiday Inn is on Route 34. For the Microtel, turn left from Rte. 34 onto Routes 5/20. Drive East on Routes 5/20. Seminary Ave. crosses 5/20, and you will see the Microtel.

**From West:** Take I-90 East to Exit 40 (Weedsport). Turn right on Rte. 34. Follow directions from East above.

**From North:** Take I-81 to I-90, the NYS Thruway, and get onto the Thruway going west. Then follow directions from the east above.

**Note: A more scenic drive than the Thruway would be to take Route 20 from the East or West into Auburn.**

## Directions to The Lodge-Wm. Noah Allyn International Center for Training and Development



**From North:** Take I-81 South to Hiawatha Blvd. Exit. Turn right and take 690 West for 2 miles. Follow Rte. 5 to traffic light. Turn left on Rte. 321 and follow for 8 miles. The Lodge is on the right.

**From South:** Take I-81 North to Exit 15 (Lafayette), which is Rte. 20. Travel West until you reach the village of Skaneateles. Turn right and take Rte. 321 (State Street Rd.) for 2.4 miles. Take a left on Mottville road and follow signs for Welch Allen State Street facility.

**From East:** Take I-90 (Thruway) West to Exit 36 for I-81 South. Then follow directions from North above.

**From West:** Take I-90 East to Exit 40 (Weedsport). Turn right on Rte. 34 and go to stop light in center of Weedsport. Turn left on Rte. 31B and travel 3.8 miles to Rte. 5. Take a left on Rte. 5 and go to stop light. Take a right onto Hamilton Road. Go 3 miles to Mottville Road and take a left. The Lodge will be on the left.



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## Currently Registered Exhibitors

### **Dendron Resource Surveys, Inc., Ottawa, Ontario, Canada**

Dendron is one of Canada's leading remote sensing applications companies, with a focus on forestland resources. Operational projects undertaken include land use / land cover mapping, forest inventory map updates and disaster mapping (flood and forest fire), utilizing data from a wide variety of optical and microwave sensors. Dendron has provided technical support to the Forestry Applications Group at the Canada Centre for Remote Sensing since the mid 1980's.

Dendron's strength in remote sensing is complemented by expertise in GIS, photogrammetry, mapping and field work. Most successful remote sensing initiatives are an integration of such tools and techniques.

Dendron has applied their expertise in geomatics across Canada, the northeastern U.S.A. and internationally. In the northeastern U.S.A. Dendron has conducted considerable forest inventory work for Clients such as Wagner Forest Management Inc., Great Northern Paper, Domtar, J.D. Irving and the City of Providence, Rhode Island. These have been photo interpretation and map automation assignments.

### **ERDAS, Alexandria, Virginia**

ERDAS® is the mapping software company specializing in Geographic Imaging solutions since 1978. The company is the world leader in highly customizable, easy-to-learn-and-use Geographic Imaging software, and has sold over 25,000 licenses of its products to professionals in over 105 countries. ERDAS products are commonly used for oil/gas/mineral exploration, natural resources management, urban and regional planning, environmental monitoring, forestry, academia, engineering, telecommunications, utilities, cartography, oceanography, meteorology, hydrology and military applications.

Corporate and International headquarters are located in Atlanta, Georgia, USA, and the company has six U.S. Sales offices, a subsidiary office in Cambridge, U.K., four training centers, and a network of over 60 international distributors.

### **ESRI, Redlands, CA**

With annual sales of more than \$340 million. ESRI has been the world leader in the geographic information system (GIS) software industry for more than 30 years. As the leader in GIS technology, ESRI offers innovative solutions that will help you create, visualize, analyse, and present information better and more clearly. Working with location information. ESRI's GIS software and solutions give you the power to solve problems you encounter every day. Organizations around the world, as well as local, state, and federal government agencies, are using ESRI GIS software to make smart and timely decisions. ESRI provides powerful GIS solutions to more than 300,000 clients in more than 189 countries. In fact, ESRI is leading the industry in providing mapping technology that meets today's global needs. ESRI offers GIS solutions to help you unlock the spatial component of your valuable data and see your organization's information from a new perspective.

### **GST, Inc., Auburn, NY**

### **Midwest Assistance Program, New Prague, MN**

Twenty years ago, a group of individuals interested in improving water and wastewater services for Midwest rural communities laid the groundwork for a grassroots technical assistance and training organization.

These individuals concluded that this effort would not be to lay pipes or build systems, but rather to have an impact on the way decisions are made in water and wastewater development. They were determined that systems could be designed and managed with the needs of the rural, low-income population in mind.

MAP, the Midwestern Rural Community Assistance Program, opened its doors as a multi-state service agency with four staff. Its first role was to work with local community action agencies to sharpen their abilities to serve as technical resources to communities experiencing water or wastewater problems. Soon MAP's activities shifted to transferring knowledge directly to local governments, helping them assess needs and available resources, complete funding applications, and ultimately, install water and sewer services.

MAP is a private, non-profit organization providing technical assistance and training on water, wastewater and solid waste issues to small, rural communities in the nine states of Iowa, Kansas, Minnesota, Missouri, Montana, Nebraska, North Dakota, South Dakota and Wyoming.

Small, rural communities and other entities, such as mobile home parks, water and sewer districts, and unincorporated areas are beneficiaries of MAP's technical assistance and training. During Fiscal Year 1999, MAP served more than 400 communities. The assistance is designed to help community residents improve their quality of life in Rural America.

### **National Geodetic Survey, Montpelier, VT**

The National Geodetic Survey (NGS) defines and manages the National Spatial Reference System (NSRS)- the framework for latitude, longitude, height, scale, gravity, orientation and shoreline throughout the United States. NSRS provides the foundation for transportation, communication, and defense systems, boundary and property surveys, land records systems, mapping and charting, and a multitude of scientific and engineering applications. NGS also conducts research to improve the collection, distribution, and use of spatial data.

NGS conducts aerial photography surveys near airports in the United States and its possessions to position obstructions and aids to air travel. It maps the coastal regions of the United States and its possessions to position the shoreline and other features needed to construct navigational charts.

NGS provides Federal leadership in developing standards and specifications for conducting geodetic surveys, coordinates the development and application of new surveying instrumentation and procedures, and conducts outreach activities including technical workshops conducted throughout the United States and an advisory program conducted with several states.

### **NYSTEC, Rome, NY**

The New York State Technology Enterprise Corporation (NYSTEC) is a not-for-profit technology engineering and commercialization company. NYSTEC identifies market opportunities and leverages the technology base in New York State to define and develop the high-tech solutions for government and industry. After distinguishing a market need, we work with the Air Force Research Laboratory (the former Rome Laboratory), universities, technologies, technology entrepreneurs, defense contractors and other companies to develop solutions. These solutions include engineering services, process improvements, product enhancements and completely new products that can be sold in non-defense markets.

NYSTEC's Environmental Systems Center applies many new innovations to help leaders plan for a cleaner and safer environment, make better use of natural resources, and prepare for disasters. Our Alternative Fuel Technology Center promotes the use of alternative fuels, conducts feasibility studies related to alternative-fuel production and usage, and

supports the development of electric vehicles. Our application engineers implement new technologies to assist with disaster mitigation, disaster recovery planning and environmental analysis.

Our activities include:

- Serving as trusted agent and technology advisor to New York State agencies and local governments.
- Providing applications engineering services for government and private-sector clients.
- Working with companies and entrepreneurs to refine their product ideas by lending hands-on engineering support and business expertise.
- Establishing the New York State Environmental Technology Institute to foster partnerships to stimulate applied research, development and demonstration of environmental technologies that provide economic development for New York.

Applying Geographic Information Technologies for government and private-sector clients.

### **PAR Government Systems, Rome, NY**

PGSC provides expert services in environmental data management, water resources modeling and assessment, Geographic Information Systems (GIS), and remote sensing applications. Diverse application domains include:

- GIS-based flood modeling and mapping
- Water resources, including water quality modeling and assessment
- Aerial surveys and digital terrain model development
- Environmental site characterization and data management
- Aerial traffic monitoring and modeling
- Utility database development, integration, and mapping

PGSC is a certified ESRI Business Partner under the ESRI Developer and Consultant Program. PGSC's Flood\*Ware<sup>®</sup> product, and advanced flood plain modeling and mapping methodology and software suite, supports the New York State re-mapping initiative and the FEMA Map Modernization Program.

PGSC acquires aerial color and color IR digital imagery, LiDAR, and multispectral data to incorporate into our geospatial analysis and resulting products. PGSC supports the acquisition and processing of color and color IR digital imagery for Digital Orthophoto Quarter Quadrangle (DOQQ) production with its business partners eConAgra.com and Landcare Aviation.

### **Raytheon, Upper Marlboro, MD**

The EOSDIS Synergy project is intended to enhance the efforts of NASA and universities around the United States who have been investigating potential applications of remote sensing data. NASA sponsors these efforts under a contract with Raytheon, who is the prime contractor for the development of the EOSDIS Core System.

The objective is to demonstrate the applicability of EOS data to the non-research community. Under Synergy, prototype Infomarts are being implemented to demonstrate how EOS and other commercial data can be used to address real-world problems confronting users -- particularly in State and local government agencies. The use of satellite data to assist in decision-making and resource allocation for a variety of application areas is under investigation through prototyping in partnership with universities and selected user representatives. Infomarts are intended to support decision-makers as a tool for specialized use of remote sensing and other GIS data, and will be accessible through the Web. Initially, five primary areas of public concern with corresponding projects were identified under the Synergy project:

**Protection of Natural Resources** - Informing the Elk Debate in the State of Arizona and Impervious Surface Mapping of the Chesapeake Bay Watershed

**Precision Agriculture** - Building a Crop and Range Alert System and Multi-Scale Modeling of Soybean Productivity

**Water Resources Management** - Snow Mapping of the Western United States and Estimating Water Use in the Bear

River Basin

**Urban Planning** - Boone County and City of Columbia Development Planning

**Disaster Management** - Disaster Management in the Pacific Region and Drought Monitoring and Management.

Additional information can be found at our website: <http://earth-outlook.com/>

**Space Imaging, Thoenon, CO**

Space Imaging is a leading supplier of visual Earth information products derived from space and aerial imagery. The company launched the world's first and only one-meter resolution, commercial Earth imaging satellite, IKONOS, on Sept. 24, 1999. Other CARTERRA\* products are produced from the Indian Remote Sensing satellites, the U.S. Landsat, Canada's RADARSAT and the European Space Agency's ERS satellites. Space Imaging also delivers aerial-derived imagery products collected by its own Digital Airborne Imaging System (DAIS-1(tm)). The company's imagery and value-added information products are used for mapping, environmental monitoring, infrastructure management, agricultural monitoring, disaster response, telecommunications, real estate, transportation planning, oil and gas exploration and other applications. For more information about Space Imaging, visit <http://www.spaceimaging.com>.

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## Expense and Reimbursement Instructions

The following are instructions for allowable expenditures and for submitting requests for reimbursement for the NASA Northeast Regional Workshop.

Upon your arrival at the Holiday Inn you will receive a folder containing an Expense Reimbursement Voucher form which needs to be completed and returned along with original receipts.

The following guidelines apply when figuring your expenses:

1. The RACNE and/or CCC cannot reimburse moneys spent to purchase/pay for alcoholic beverages, including those consumed during a meal.
2. We cannot reimburse moneys spent for entertainment purposes.
3. **Original receipts** must accompany the signed expense voucher. Receipts should be itemized and show tips where applicable.
4. **Transportation:** The RACNE will provide a [shuttle service](#) from the Syracuse Airport to the Holiday Inn, Auburn, and return trip to the Airport.

The RACNE will provide a [shuttle service](#) to and from the Hotel to the Conference location.

The RACNE will not reimburse for rental cars.

5. **Mileage:** The RACNE will reimburse 32.5 cents per mile for mileage.
6. **Hotel:** Overnight accommodations will be billed directly to the RACNE.

Participants will be asked for their credit card number to cover any phone calls or other incidental expenses which they may incur, and payment for those charges should be made to the hotel upon check-out.

7. **Meals:** Wednesday evening dinner- Upon your arrival at the Holiday Inn you will receive a dinner ticket at the registration table for dinner in the hotel's restaurant.

Thursday and Friday's meals are all available as part of the conference.

8. **Airfare:** Travel arrangements will be paid for directly by the RACNE if made through Auburn Travel 1-800-622-2754.

**Tax-exemption:** Certain taxes are not to be charged to CCC personnel. A tax exemption certificate will be provided to the hotels.

# Holiday Inn

75 North Street, Auburn, NY 13021, Phone # (315) 253-4531 Fax: 315-252-5843

## Group Room Reservations For: NE NASA Conference

**Room Block Dates: October 25-29, 2000**

**Reservation Cut-Off Date: October 2, 2000**

Please check your room preference, fill out the information, and return this page to ensure your room reservations at our hotel and at your group rates. To receive the rate of **\$59.00** for a standard room (two double beds), you must either return this form, contact the hotel directly, or contact (800) HOLIDAY. If making a reservation by telephone, please be sure to mention the group reservation code of **RAC** to facilitate the reservation process and to ensure correct rates.

All persons *requesting* a printed confirmation will receive one after the cut-off date. All reservations received after the cut-off date, or above the room allotment, will be made **ONLY** on a space availability basis, so please return this form quickly.

(cut here)

Function Name: NE NASA Conference

Room Block Dates: October 25-29, 2000

Room Rate: \$59.00 plus 11% tax, per standard room

Name \_\_\_\_\_

Smoking  Non-Smoking

Address \_\_\_\_\_

Gtd with Credit Card \*: \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Exp. Date \_\_\_\_\_

Arrival Date: \_\_\_\_\_

6:00 pm reservation\*\*  (Check-in 3:00 pm)

Departure Date: \_\_\_\_\_

(Check only if you are guaranteeing with a credit card.)

Reservation Cut-Off Date: October 2, 2000 (Check out 11 am)

\*Reservations can be guaranteed with any major credit card accepted by the Holiday Inn system or by an advance deposit of one night's lodging.

\*\*Any reservations NOT guaranteed will be held until 6:00 pm only. If you need to cancel a guaranteed reservation, you must do so by 6:00 pm on the day of arrival to avoid being billed or losing the advanced deposit paid.

## Holiday Inn

75 North Street, Auburn, NY  
13021

Phone # (315) 253-4531

(800) HOLIDAY

**FAX: (315) 252-5843**

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## Exhibitor Details

### Commercial Exhibits

- 10-foot wide x 3-foot tabletop display space
- 6-foot skirted table and two chairs
- power supply, 20 amp/120 volt
- one paid registration for each booth rented (includes reception, breaks, lunches, dinners)
- exhibit directory listing (you supply a 250-word or less description)

Telephone lines are available. Advance notice required.

**Non-profit Exhibits:** Contact ESF Continuing Education.

**Workshop Underwriters:** Recognition on the workshop web site, in the final program, and signs at the appropriate conference function (break or reception).

**Booth Selection:** Booths will be assigned on a **first paid--first reserved** basis.

## Preliminary Exhibit Schedule

### Thursday, October 26

- 8 - 11 am Exhibitors set up
- 11 am - 7:30 pm Exhibits open
- 5:00 - 6:30 pm Reception in exhibit / poster area

### Friday, October 27

- 8 am - 1:30 pm Exhibits open
- 1:30 -- 3 pm Exhibit break down

## Exhibit Cost:

**Discounted** early registration fee **if paid** on or before October 2, 2000:

**10' by 3' table top display space:** \$395 per space

*A corporate check or purchase order received by October 2 is considered a paid registration.*

Full Exhibit registration fee *after* October 2::

**10' by 3' table top display space:** \$495 per space

**Please note:** The exhibit registration fee covers the registration costs of **one exhibit staff member**. If you plan to have more than one staff member in your booth, please submit additional reduced workshop registration fee(s)

of \$195 per additional staff member.

**Payment Terms:** Exhibit space reservations must be accompanied by payment in full, or written purchase order, for display reservations to be definite. You may reserve a space by phone but please confirm in writing/fax, with payment or purchase order. Exhibit payments made after October 2 (or beyond 30 days of receipt of our exhibit fee invoice if a corporate purchase order is sent to reserve your booth) will be assessed at the full exhibitor fee of \$495.

**Cancellation Policy:** Refunds for cancellations will be made only if requested. A 30 % late cancellation charge will be assessed after October 2, 2000.

**Hotel Information:** A block of rooms has been reserved at the Holiday Inn- Auburn, NY for Wednesday night, October 25 through Saturday night, October 28, at \$59 plus tax per night. Reservations may be made by phone at (315)253-4531 or (800)HOLIDAY. Please specify that you will be attending the RACNE program--registration code RAC--to receive the appropriate rate. **Cut-off date for assured reservations is September 13, 2000.**

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## Exhibit Space Reservation Form

NASA-RACNE Regional Applications Workshop

October 26-27, 2000

Wm. Noah Allyn International Center for Training and Development

Welch-Allyn, Inc.

Skaneateles Falls, NY

Name \_\_\_\_\_ Phone ( \_\_\_\_ ) \_\_\_\_\_

Company \_\_\_\_\_ FAX: ( \_\_\_\_ ) \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ Zip \_\_\_\_\_

**Please reserve \_\_\_ exhibit booth(s) for my firm for the NASA Northeast Regional Applications Workshop (includes one staff registration per booth)**

	<b>Fees</b>	<b>Total</b>
By October 16, 2000:      10' wide by 3' deep table display	<b>\$395</b>	_____
After October 16, 2000:    10' wide by 3' deep table display	<b>\$495</b>	_____
<b>Additional exhibitor staff discounted registrations : ___ registrations @</b>	<b>\$165</b>	_____

**Name(s) of exhibit staff:**

**My firm would like to help underwrite the conference with a sponsorship/partial sponsorship of:**

- \_\_\_\_\_ Refreshment breaks (cost \$375/each) \_\_\_\_\_
- \_\_\_\_\_ Reception (partial sponsorship: \$250; full cost \$750) \_\_\_\_\_
- \_\_\_\_\_ Door prize (describe item or contribution) \_\_\_\_\_

**TOTAL, payable to Research Foundation of SUNY** \_\_\_\_\_

**Notes:**

\*Payment Terms: All payments must be made in U.S. dollars, **payable to Research Foundation of SUNY.**

If payment is not received by October 2, 2000 (or within 30 days of receipt of our exhibit fee invoice if you reserve your booth via corporate purchase order) exhibitors will be liable for the standard exhibit space fee.

**Please--**

\* Enclose a brief description of 250 words or less, describing the products, services, or programs of your organization.

**Mail, with payment, to:**

ESF Continuing Education, SUNY ESF, 1 Forestry Drive, Syracuse, NY 13210-2784.

Telephone: (315) 470-6891 FAX: (315) 470-6890

Contact: Horace Shaw email: [hbshaw@esf.edu](mailto:hbshaw@esf.edu)

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Skaneateles, NY**

### Exhibitor Information and Registration

[Exhibit Logistical Details](#)

[Exhibit Reservation Form](#)

You're invited to participate in the NASA-RACNE Regional Applications Workshop, to be held October 26-27, in Skaneateles Falls, New York. The workshop is devoted to exploring NASA and other federal and industry remote sensing technologies and how they may be developed to serve state, local, and tribal needs. This will be the only one of four NASA workshops to be held in the Northeast.

Workshop participants will include over 100 leaders in GIS technology and information from state, county, local and tribal agencies in the 14 northeast state from Maine to Minnesota and New Jersey to Indiana. Participants have been nominated by a steering committee which includes the state geographic information coordinators from the 14 states. This workshop offers you a unique opportunity to showcase your products and services to professionals who are users or who desire to be users of GIS hardware, software and services. Participants include working professionals in a variety of agencies.

Continental breakfasts, refreshment breaks and a reception will be held in the exhibit area to encourage high visibility.

You may participate in the Conference as an exhibitor, as a Conference underwriter or both. Conference underwriters are acknowledged in the conference program and at the functions they sponsor. The linked materials for exhibitors or underwriters contain information about the arrangements and a registration form. Table assignments will be made on a *first-paid, first confirmed* basis. (A company purchase order will be sufficient to be considered paid.)

Please take a few moments to review the informational materials. If you have any questions, don't hesitate to call our office at (315) 470-6891. We hope you will participate in this unique opportunity. In addition you are encouraged to increase your visibility by underwriting part or all of a Conference event, such as the reception or a coffee break.

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# NASA Northeast Regional Applications Workshop



October 26-28, 2000  
Skaneateles, NY

## Poster Abstracts

- 1. Developing an Impervious Surfaces Map for the Chesapeake Bay Watershed**, *Richard Biery*, Northern Tier Regional Planning and Development
- 2. CT Land Cover**, *Daniel Civco*, Natural Resources Management & Engineering Laboratory for Earth Resources Information Systems, Storrs, CT
- 3. Assessing the Urban Forest With High Resolution Multispectral Imagery**, *George Bonyng*, University of Rhode Island, Kingston, RI
- 4. Rhode Island Land Cover Change from 1972 to 2000 and the Impact on Forest Ecosystems**, *Yeqiao Q. Wang*
- 5. Satellite Works for Nature in the Metropolis**, *Yeqiao Q. Wang*
- 6. Applying NASA Earth Science to Key Regional Issues**, *George Diak* Upper Midwest Regional Earth Science Applications Center
- 7. Application of Color-Infrared Digital Imagery to Quantify Urban Tree Cover in Syracuse, NY**, *Jeff Walton* for USFS *David Nowack*, USFS Urban Forestry Cooperative Research Unit, Syracuse, NY
- 8. GIS and Wine**, *Peter Ensminger*, GeoManagement, Syracuse, NY
- 9. South Shore Estuary Reserve Pollution Potential Model**, *Tom Hart, Jr.*, NYS Department of Health, Albany NY
- 10. South Shore Estuary Reserve Open Space Analysis**, *Tom Hart, Jr.*, NYS Department of Health, Albany NY
- 11. Lake Erie Watershed Land Cover Change**, *Bruce Motsch*, GIS/ Remote Sensing Services, Resource Analysis Section, Division of Real Estate Estate and Land Management, Columbus, Ohio
- 12. The Scioto River Watershed Riparian Analysis**, *Bruce Motsch*, GIS/ Remote Sensing Services, Resource Analysis Section, Division of Real Estate Estate and Land Management, Columbus, Ohio
- 13. ODNR Properties & Scenic Rivers**, *Bruce Motsch*, GIS/ Remote Sensing Services, Resource Analysis Section, Division of Real Estate Estate and Land Management, Columbus, Ohio
- 14. Ohio Greenways & Trails**, *Bruce Motsch*, GIS/ Remote Sensing Services, Resource Analysis Section, Division of Real Estate Estate and Land Management, Columbus, Ohio
- 15. State of Ohio Land Cover**, *Bruce Motsch*, GIS/ Remote Sensing Services, Resource Analysis Section, Division of Real Estate Estate and Land Management, Columbus, Ohio
- 16. New Hampshire Land Cover Assessment Project**, *Fay Rubin*, GIS Manager and *Anne Deely*, GIS Analyst, Complex Systems Research Center, University of New Hampshire
- 17. Remote Sensing to Stimulate Economic Development**, *Lindi Quackenbush and Paul Hopkins*, NASA Affiliated

Research Center, SUNY College of Environmental Science and Forestry, Syracuse, NY

**18. Regional Applications Center for the Northeast**, *Lee Herrington*, RACNE, Auburn, NY

**19. Land Use and Environmental Features**, *Mark Walter*, Bay-Lake Regional Planning Commission, Green Bay, WI

**20. Problems and Solutions in the Integration of Population Data with Other Disparate Data Sets**, *Mark Becker*, Center for International Earth Science Information Network, Columbia University

**21. Remote Sensing Applications within Local Government**, *Timothy L. Haithcoat*, University of Missouri-Columbia, Columbia, MO

**22. Developing an Integrated Resource for Multiple Applications: The Wisconsin Initiative for Statewide Cooperation on Landscape Analysis and Data**, *Michael F. Bohn*, Wisconsin Department of Natural Resources, Madison, WI

**23. Ohio State University Center for Mapping**, *Joel Morrison*, Director, Center for Mapping, Ohio State University

**24. Watershed Boundaries, Corporation Limits, and Carterr Precision Imaging**, *Vance Cerasini*, City of Dublin, OH

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## Preliminary Program

### **Wednesday Evening, Oct. 25**

6:00-8:30 p.m. Early Check-in at Holiday Inn, Auburn

### **Thursday, Oct. 26**

7:30 a.m

[Bus to "The Lodge" Conference Center](#)

Continental Breakfast/Registration at Conference Center

8:30

**Welcome and Introductions**

### **Workshop Goals, Purposes, Opportunities and Expectations**

### **Future of Remote Sensing Data in State, Local, and Tribal Governments and Preview of Nasa's Initiative**

*Commissioner Ralph Standbrook*, Chair, Cayuga County Board, New York

*Mayor Melina Carnicelli*, City of Auburn, New York

*Dennis Golladay*, President, Cayuga Community College

*Alexander Tuyahov*, Director of Applications, Commercialization and Education Division, NASA Headquarters

*Robert Brower*, Director, Regional Applications Center for the North East

9:00

### **Remote Sensing Potential: From Global to Local Needs**

*Roberta Balstad Miller*, Director, Center for International Earth Science Information Network, Columbia University

9:15

### **Pioneering Remote Sensing in State, Local and Tribal (SLT) Governments: Overview, Examples and Questions/Feedback (Part 1)**

**Moderator:** *Dr. W. Frederick Limp*, Director, Center for Advanced Spatial Technologies, University of Arkansas

**Remote Sensing Resources and SLT Applications**, *Dr. W. Frederick Limp*, Director, Center for Advanced Spatial Technologies, University of Arkansas

**Environmental Quality: Remote Sensing for Water Quality: Does the Distribution and Shape of Forested Riparian Vegetation Influence Downstream Water Quality?**, *Dale White*, Division of Surface Water, Ohio Environmental Protection Agency, Columbus, OH and *Arnold Engelmann*, Danish Hydraulic Institute- Water and Environment, Water Resources Section, Hørsholm, Denmark

**Community Planning and Growth Management: A Fantastic Applications Opportunity**, *Wil Orr*, Director and Hoyt Johnson II, Technical Systems Coordinator, Sustainability and Global Change Program, Prescott College, Arizona

10:15

### **Break**

10:40

### **Pioneering Remote Sensing in State, Local and Tribal (SLT) Governments: Overview, Examples and Questions/Feedback (Part 2)**

**Moderator:** *Dr. Daniel L. Civco*, Associate Professor and Director, Laboratory for Earth Resources Information Systems, University of Connecticut

**Incorporating Environmental RS in Local Planning**, *Dr. Daniel L. Civco*, Associate Professor and Director, Laboratory for Earth Resources Information Systems, University of Connecticut

**Resource Management: Agriculture and Geology**, *Dr. Jay Parish*, GIS Manager, Lancaster County,

PA

**Emergency Management: Emerging Resources for Local Needs**, *Nicolas Colas*, GIS Manager, Cayuga County, New York

**Developing an Integrated Resource for Multiple Applications (Wisconsin Initiative for Statewide Cooperation for Land Cover Analysis and Data)**, *Michael Bohn*, Geographic Data Manager, Wisconsin Department of Natural Resources

12 Noon **Lunch** ("Meet Your Neighbors" at individual state tables)  
**Presentation: Welcome to New York: GIT Making a Difference**, *James Natoli*, Director of State Operations, State of New York

1:30 p.m. **Overview of Remote Sensing Industry for SLT Governments**  
*Kass Green*, President, Pacific Meridian Resources

2:00 **Preparation for Application Area Discussion breakouts**  
*Robert Brower*, Director, Regional Applications Center for the Northeast

2:15 **Application Area Discussion Breakouts:**  
(Facilitated discussions organized by NASA application themes)

- Emergency Management and Public Safety
- Environmental Quality
- Resource Management, Forestry and Agriculture
- Community Planning and Growth Management
- Data Integration for Multi-disciplinary Applications

Potential Topics: Identify/Prioritize Issues, Problems, Requirements, Options, Opportunities, Barriers, Policy and Implementation Issues, Recommendations for each application theme

3:15 **Break** (included in Application Breakouts)

4:30 **Participant Survey and Geospatial Technology User Demographics**  
*Melanie Wallendorf*, Professor, Department of Marketing, Eller College of Business and Public Administration, University of Arizona

4:45 **Understanding State, Local and Tribal Government Users – Issues Heard and Lessons Learned from MidAmerica and Western Workshops**, *Dr. Chuck Hutchinson*, Arizona Remote Sensing Center, College of Agriculture, University of Arizona

5:00 **Workshop Exhibitors -- Introductions**  
*Horace Shaw*, Associate for Continuing Education, State University of New York College of Environmental Science and Forestry

5:15-5:30 **Plans and Announcements for Tomorrow**

5:30-6:30 **Reception and Exhibit / Poster Session**

6:30-8:00 **Dinner**

**Presentation: Realizing the Potential- Remote Sensing Possibilities in SLT**, *Commissioner Randy Johnson*, Chair, Hennepin County Board, Minnesota and Former President, National Association of Counties

**Friday, Oct. 27**

7:30 a.m. Buses to "The Lodge" Conference Center  
Continental Breakfast/ Exhibit and Poster Session

8:30 **Reports from Application Area Breakout Groups**

9:30 **Overview of NASA's State, Local and Tribal Governments Initiative**  
*Dr. Michael Thomas*, Director of Applications, Commercialization and Education Division, NASA Headquarters

10:00 **Break**

10:20 **Federal GIT/Remote Sensing Updates and Resources**  
**Moderator:** *Dr. Joel Morrison*, Director, Center for Mapping, Ohio State University

**Government-wide Update: (National Spatial Data Infrastructure, Federal Geographic Data Committee, Office of Management and Budget I-Teams, GeoData Alliance)**, *John Moeller*, Director, Federal Geographic Data Committee  
**Multipurpose Resource: Common Product Development for Land Cover and Digital Earth**

**Initiative**, *Dr. Tom Loveland*, EROS Data Center, US Geological Survey

**Coastal Management Remote Sensing Activities**, *Steve Raber*, Coastal Information Services, Coastal Services Center, National Oceanic and Atmospheric Administration

**Floodplain Mapping and Other Remote Sensing Initiatives**, *Doug Bellomo*, PE, Eastern Mapping Leader, Mitigation Directorate, US Federal Emergency Management Agency

11:45

**Lunch**

**Preparation for Organizational Sector Discussion Breakouts**

*Robert Brower*, Director, Regional Applications Center for the North East

1:00 p.m.

**Organizational Sector Discussion Breakouts: Input for Building a NASA Outreach**

Facilitated discussions for each sector

2:45

**Break**

3:00

**Reports from Organizational Sector Discussion Breakout Groups**

4:10

**State Break-out Sessions: Feedback and Planning Follow-up Efforts and Activities within each of 14 States**

5:00

**Wrap up: Next Steps**

**Moderator:** *Bob Brower*, Director, Regional Applications Center for the Northeast

*Dr. Michael Thomas*, Director of Applications, Commercialization, and Education Division, NASA Headquarters

*Timothy Haithcoat*, Program Director, Missouri Spatial Data Information Service, University of Missouri

*Ted Koch*, State Cartographer, State of Wisconsin

5:30

Buses Depart for Auburn hotels

7:00

Buses Depart for dinner

7:15

**Dinner**

**Presentation: Future Opportunities in Remote Sensing for State, Local, & Tribal Governments**, *Congressman James P. Walsh* (R-25th, New York)(invited)

**Saturday, Oct. 28**

9:00

**"Next Steps" Meeting for Steering Committee**

**Optional Shortcourses**

- **Applications of Remote Sensing for Local and Regional Use**, *Dr. W. Frederick Limp*, Director, Center for Advanced Spatial Technologies, University of Arkansas
- **WebGIS: More Than Just Maps: A New Paradigm for Delivering Geographic Information Services**, *Dr. Todd Bacastow*, Assistant Director, EMS Environmental Institute, PennState
- **Remote Sensing - Technical/Advanced**, *Paul Hopkins*, Director, Council for GeoSpatial Modeling and Analysis, SUNY College of Environmental Science and Forestry
- **GIS and Remote Sensing for Economic Development**, *Martin Roche*, Assistant Director, Research and Presentation Systems, South Carolina Department of Commerce

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### Some Recreational Options at the NASA Northeast Regional Applications Workshop:

The Finger Lakes Region in autumn is a spectacular sight with its fall foliage display and many lakes and glens. There are numerous fall activities that can be enjoyed while also experiencing the region's beautiful landscape. Some activities have been pre-arranged for your convenience, while information on other area attractions will be available to you at the hotel for your consideration. Information on numerous other possibilities will be available at the workshop.

Below are activities which have been arranged beforehand, and for which we ask prior reservation. They will be conducted given sufficient interest. Some additional spaces may be available upon your arrival depending upon the number of spaces already reserved.

#### **Saturday afternoon / evening, October 28:**

##### **Seneca Lake Winery Bus Tour: \$65.00 per person**

The Finger Lakes Region produces 85% of all wine in NYS. We are the second largest wine producers in the U.S.A., but our quality is second to none. The tour leaves from the Holiday Inn at 1:00 on Saturday afternoon. A box lunch will be available to enjoy while on the bus.

Stopping along the Seneca Lake, guests will enjoy visits at several of the region's fine wineries, including Lamoreaux Landing, Wagner, and Red Newt.

##### **Historic Sites Tour: \$ 15.00 /per person**

Visit the Harriet Tubman home and learn about the woman who dared to dream of freedom when she led hundreds of slaves north on the Underground Railroad, earning her the distinction as "The Moses of Her People".

Then stop at the home of her friend, William Seward, who served as President Lincoln's Secretary of State, and as Governor of New York, had the extraordinary vision to purchase Alaska from Russia, thought then by some to be "Seward's Folly".

The tour continues with a visit to the Willard Chapel, where the Willard sisters had commissioned Louis Comfort Tiffany and the Tiffany Glass & Decorating Company to design the interior of the Willard Memorial Chapel in memory of their parents. This chapel is now the only complete religious example of a Tiffany interior, proudly showcasing his work in stained glass, wood and mosaic tile.

At the Cayuga Museum guests will learn that Theodore Case, a cousin to the Willard sisters, discovered the modern technique for putting sound-on-film in a converted greenhouse, now the site of the Case Research Lab on the Cayuga Museum's campus. Case's partnership with William Fox led to the creation of Twentieth Century Fox and Fox Movietone News.

##### **Fort Hill Cemetery Moonlight Walking Tour: \$ 5.00 per person**

Come join us for an evening with Auburn's historical elite, like William Seward, Harriet Tubman, and Theodore Case.

The walking tour begins at Bradley Chapel on Fort St., and winds through the Fort Hill Cemetery. Bring a flashlight.

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## NASA Northeast Regional Applications Workshop



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### Registration Information

**(Will be finalized in the next few days.)**

#### Invited Participants

Please complete the [registration form](#) and fax to NASA-RACNE Workshop at (315) 470-6890. Please review [expense and reimbursement instructions](#).

#### Additional Participants

Information (including registration fees and deadlines) for additional participants will be posted at a later date.

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# NASA Northeast Regional Applications Workshop



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## NASA-RACNE Registration Form

Name \_\_\_\_\_

Organization \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Email \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Special needs: \_\_\_\_\_

**Register me for the NASA-RACNE Regional Applications Workshop**

Enclosed is my conference fee: \$325,  
prior to October 2, 2000: \$225 \_\_\_\_\_

**Total, payable to SUNY Research Foundation** \_\_\_\_\_

Credit Card Payment:  VISA  Mastercard

Account Number: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Signature : \_\_\_\_\_

Planned arrival date: \_\_\_\_\_ Planned departure: \_\_\_\_\_

I will be traveling by  air  car  other: \_\_\_\_\_

Please help us plan appropriate facilities and arrangements by completing the following questions:

**Discussion Breakout Sessions:**

Please indicate your 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> preferences for application theme discussion breakouts:

\_\_\_ Disaster/Emergency Management/Public Safety

\_\_\_ Environmental Quality/Management

\_\_\_ Resources Management and Agriculture

\_\_\_ Transportation & Utility Infrastructure

\_\_\_ Community Planning/Growth Management

\_\_\_ Integrated/Interdisciplinary Applications

**Saturday Morning Post-Workshop Courses:**

Please indicate 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> choices, or check this box  if you will not be staying for a post-workshop course.

\_\_\_ WebGIS: A New Paradigm for Delivering GIT

\_\_\_ RS for Local & Regional Government

\_\_\_ GIS and RS for Economic Development

\_\_\_ Legal Issues in Geographic Data

\_\_\_ Remote Sensing for GIS (Basic)

\_\_\_ Remote Sensing for GIS (Technical/Adv.)

\_\_\_ Geospatial Database Development

\_\_\_ Research and Applications in LIDAR

\_\_\_ Federal GIS Initiatives and Data Sources

\_\_\_ Using Remote Sensing in a GIS

\_\_\_ Geospatial Technology for Decision-Makers

\_\_\_ Licensing NASA Technologies

Your suggestion: \_\_\_\_\_

**Recreational Opportunities:** Please indicate 1<sup>st</sup> and 2<sup>nd</sup> choices.

Saturday afternoon/evening, October 28:

Seneca Lake Winery Tour (\$65)

Historic Sites Tour (\$15)

Fort Hill Cemetery Moonlight Walking Tour (\$5)

**Please Fax to : (315) 470-6890**

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# NASA Northeast Regional Applications Workshop



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## Post-Conference Workshops and Recreational Opportunities Registration List

### Post-Conference Workshops

#### WebGIS: More Than Just Maps - A New Paradigm for Delivering Geographic Information Services

Bilow, Gary	MI Department of Natural Resources
Brangan, Pam	Chittenden County Regional Plan Comm
Burke, Edward	Penn Emergency Mgmt Agency
Carnahan, Douglas	Massachusetts Highway Department
Carr, JoAnne	Mass EOE A - Nashua Watershed
Carroll, Michael	US Army Corps Engineers
Cialek, Christopher	MN Planning, Land Mgmt Info Center
Dittmar, Donald	Waukesha County Wisconsin
Gavula, Tom	Providence Gas Co.
Giner, Jose	Town of Enfield
Goldblatt, Irvin	Indiana Department of Environmental
King, Michael	PA House of Representatives
Koch, Ted	WI State Cartographers Office
Lehman, Roger	Southwest Indiana Disaster Res. Corp.
Maxim, Eugene	Maine Emergency Management Assoc.
Newell, Joyce	MI Department of Transportation
Newell, Thomas	Michigan State Police
Nielsen, Bruce	USDA
Ogg, Tim	Minnesota Board of Water & Soil
Oswald, Bruce	NYS GIS Coordination Program
Paus, Michael	Wisconsin Board of Comm Public Lands
Radacsi, John	CT Office of Policy and Management
Ross, Lawrence	Wayne County GIS Management Unit
Saligoe-Simmel, Jill	Indiana Geographic Information Council
Sjerven, Gerald	CWE-NRRI 1
Sommer, Kristen	Greater Portland Council of Govts
Wagner, Thomas	Town of Waterford

#### Applications of Remote Sensing for Local and Regional Use

Campbell, Don	Southwest Region Planning Commission
Civco, Daniel	University of Connecticut
Czechanski, Michael	Wisconsin Geological & Natural History Survey
Edwards, Robert	Susquehanna River Basin Commission
Fuller, Karyl	Central Vermont Regional Planning
Gelbmann, Rick	Metropolitan Council Twin Cities
Halbrook, Lee	City of Wausau
Hannon, David	Housatonic Valley Council of Elected Official
Houston, Benjamin	Monroe County GIS Division
McSorley, Kathryn	Bergen County Dept of Health Services
Miller, Gregory	Maine Forest Service

Milograno, Anthony	Oneida County
Motsch, Bruce	Ohio Department of Natural Resources
Parker, Erik	Stark County, Ohio
Parrish, Jay	Lancaster Co GIS
Patterson, Neil	Tuscarora Nation - HETF
Petersen, Cheri	Mid-Ohio regional Planning Commission
Tucker, Robert	Stony Brook
Walter, Mark	Bay-Lake Regional Planning Commission

### GIS & RS for Economic Development

Kauffman, Terry	Berks County Conservancy
Marin, Connie	Eastern Maine Development Corp
Mosley, William	Nanticoke Leni-Lenape Indians
Richardson, James	National Geodetic Survey
Rubin, Fay	University of New Hampshire

### Remote Sensing for GIS - Technical/Advanced

Barnes, Gerald	Penebscot Nation & I.G.C.
Duvall, Matt	Menominee Tribal Enterprises
Elhami, Shoreh	Delaware County Auditor
Giffhorn, Kenwood	Penn Dept of Env. Protection
Guazzo, William	Mass Dept of Env. Protection
Hanning, John	Vermont Dept of Agriculture
Healy, Sean	RIGIS
John, Philip	MASSGIS
Jordan, Paul	R.I. Dept. of Env. Management
Meyer, Chuck	Red Lake Nation
Mitchell, Aimee	St Regis Mohawk Tribe
Mofle, Tracey	LacCourte Oreilles Ojilwa C.C.
Ridgway, Charlie	FEMA
Snowden, Erik	Capitol Region Council of Governments
White, Dale	Ohio Environmental Protection Agency

## Recreational Opportunities

### Finger Lakes Winery Tour

Bell, Brian	GST, Inc./Racne
Campbell, Don	Southwest Region Planning Commission
Carnahan, Douglas	Massachusetts Highway Department
Francis, April	Passama Quoddy Tribal Government
Giffhorn, Kenwood (& guest)	Penn Dept of Env. Protection
Hanning, John	Vermont Dept of Agriculture
Healy, Sean	RIGIS
Ogg, Tim	Minnesota Board of Water & Soil
Paus, Michael (& guest)	Wisconsin Board of Comm Public Lands
Read, Jennifer (& guest)	Minnesota Department of Transportation
Ridgway, Charlie	FEMA

### Historic Sites Tour

Claypool, David	Ramsey County Minnesota
Milograno, Anthony	Oneida County
Mosley, William	Nanticoke Leni-Lenape Indians
Newell, Thomas (& guest)	Michigan State Police
Parrish, Jay (& guest)	Lancaster Co GIS
Skipton, Lisa	Goodhue County
White, Dale (& guest)	Ohio Environmental Protection Agency

**Shipping Information for NASA Northeast Regional Applications Workshop:**

Please ship to arrive 10/24 or 10/25.

Address: The Lodge at Welch Allyn  
Attn: Linda/NASA  
4355 State St. Rd.  
Skaneateles Falls, NY 13153

Phone: 315-291-3700

Contact at The Lodge is Linda Kehoe.

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## Shuttle Service

### **Airport Shuttle**

Auburn Travel has arranged for shuttle service from the Syracuse Airport to the Holiday Inn, Auburn. Participants should look for a sign board stating NASA Workshop Shuttle - Holiday Inn, Auburn, at the baggage claim area. This service will be provided for your return trip to the airport as well.

### **Conference Shuttle**

Onondaga Coach will transport participants from the Holiday Inn to The Lodge in Skaneateles and other workshop event on Thursday and Friday. There will also be off-schedule transportation available if needed.



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# NASA Northeast Regional Applications Workshop



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## Post- Workshop Courses

### **Saturday Morning, October 28**

We are planning a number of optional shortcourses related to the Regional Application Workshop topics. Please check the [Pre-registration list](#) to see if you are registered for one of the following workshops. Additional information will be posted as it becomes available.

### **WebGIS: More Than Just Maps - A New Paradigm for Delivering Geographic Information Services**

*Dr. Todd Bacastow*, Assistant Director, EMS Environmental Institute, PennState

Most significant societal changes occur "in an environment that contained all the essential elements for change and to a mind prepared to recognize the possibility for change" (Elting Morison, *Men, Machines, and Modern Times*, 1966). The environment that contains the essential elements of a new marketplace that affords millions of people the power of an extraordinary suite of geospatial services is here. The purpose of this workshop is to prepare the attendee's mind to recognize and take advantage of the possibilities. The workshop provides an integrated view of the essential technologies and the environment. The entry point to this new marketplace is through recent advances in WebGIS technologies and how it is demonstrating the possibilities of this new services market. The second enabling technology is the OpenGIS Specification which enables geoprocessing to become an integral part of the new distributed computing paradigm in which applets, middleware, components, e-commerce tools, catalogs, and object request brokers give any networked computing device easy real-time access to a huge universe of geodata and geoprocessing resources. Digital Earth is emerging in the public consciousness as the environment of this marketplace. In Digital Earth, private sector and public sector participants are creating an integrated framework to which they can share or market their services.

### **GIS and Remote Sensing for Economic Development**

*Martin Roche*, Assistant Director, Research and Presentation Systems, South Carolina Department of Commerce

### **Applications of Remote Sensing for Local and Regional Use**

*Dr. W. Frederick Limp*, Director, Center for Advanced Spatial Technologies, University of Arkansas

### **Remote Sensing for GIS - Technical/Advanced**

*Dr. Paul Hopkins*, Director, Council for Geospatial Modeling and Analysis, SUNY College of Environmental Science and Forestry

This course offers an overview of available remote sensing sensors and data, ranging from aerial photography and digital orthophotogrammetry to multispectral and hyperspectral imaging, Lidar and synthetic aperture radar from airborne and satellite platforms. The course is designed for individuals with experience in GIS. The co-registration of various data types will be discussed, and their utilization for land use and land cover classification and change detection for given sets of applications and operational requirements. Advanced remote sensing sensors and platforms, and image processing and visualization techniques also will be presented.