

# Newest developments of Inland Navigation in the USA



**Otto Schwetz**

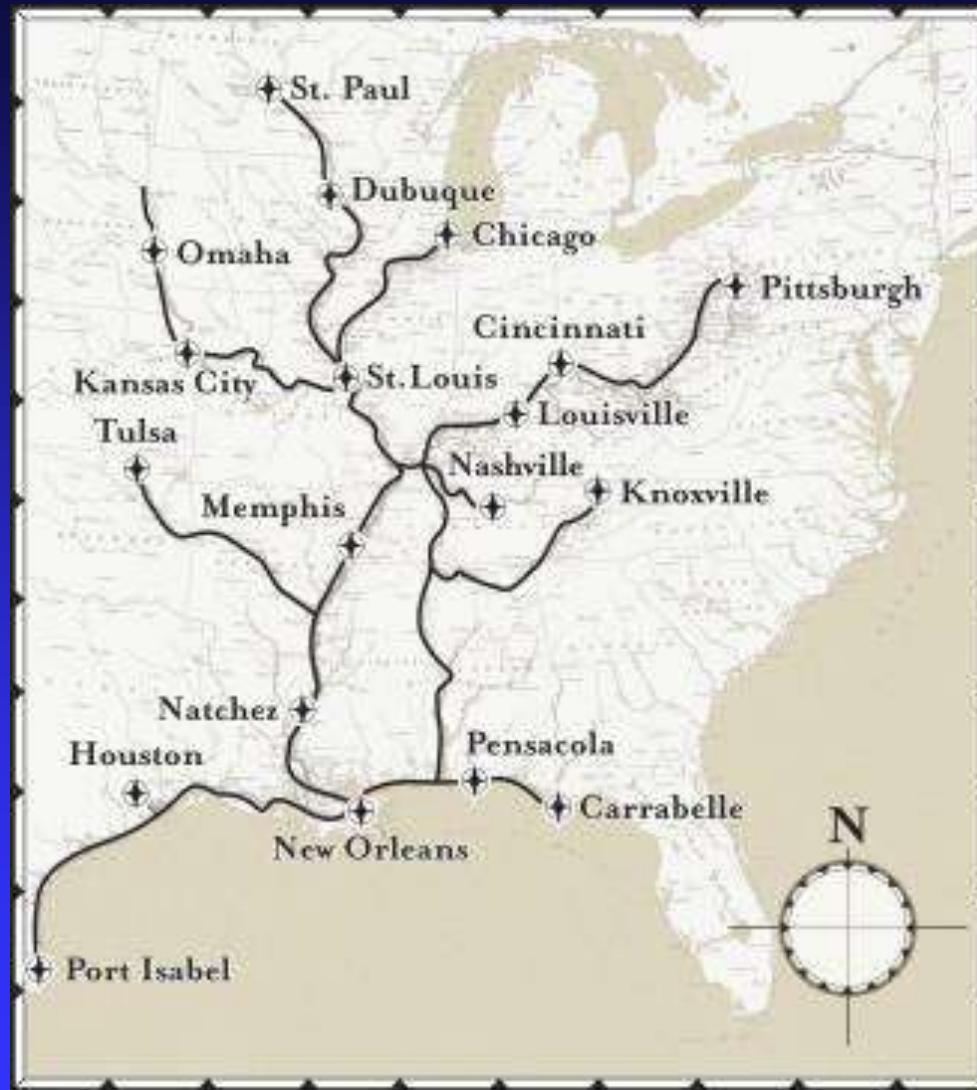
Counsellor of the Senate of the City of Vienna ret.

President of PIANC Austria

Chairman of the Pan-European Transport Corridor VII, the Danube

Consultant TINA Vienna Urban Technologies & Strategies Ltd.

# INLAND NAVIGATION INTERNATIONAL: THE USA



Inland waterways of the United States include over  
25,000 miles (40000 km)  
of navigable waters

Mississippi:

Tug vessel McDermot, 10.500 HP → pushes 70 barges

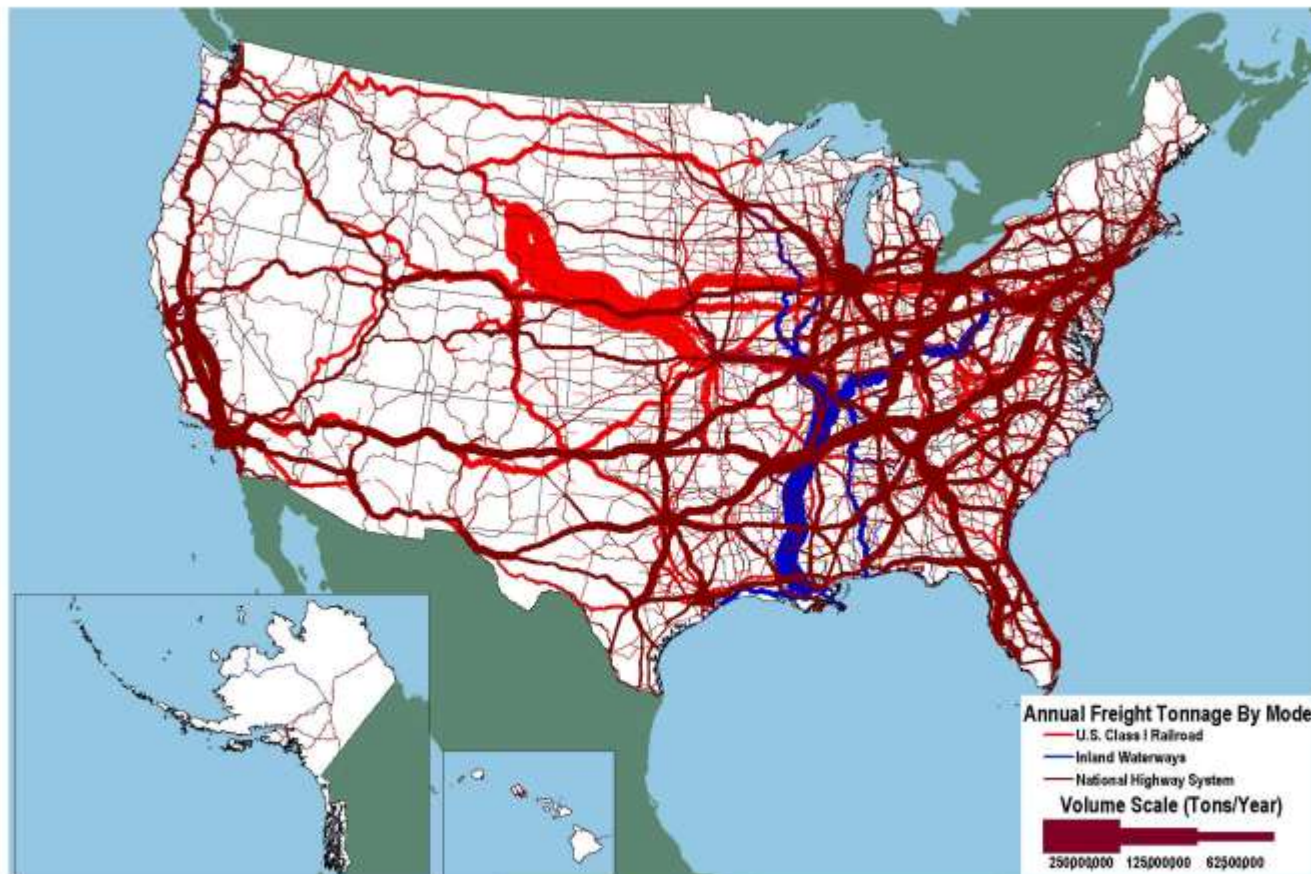
= ~ 100.000 t in one formation

Normal vessel: ~ 40 barges

= ~ 60.000 t

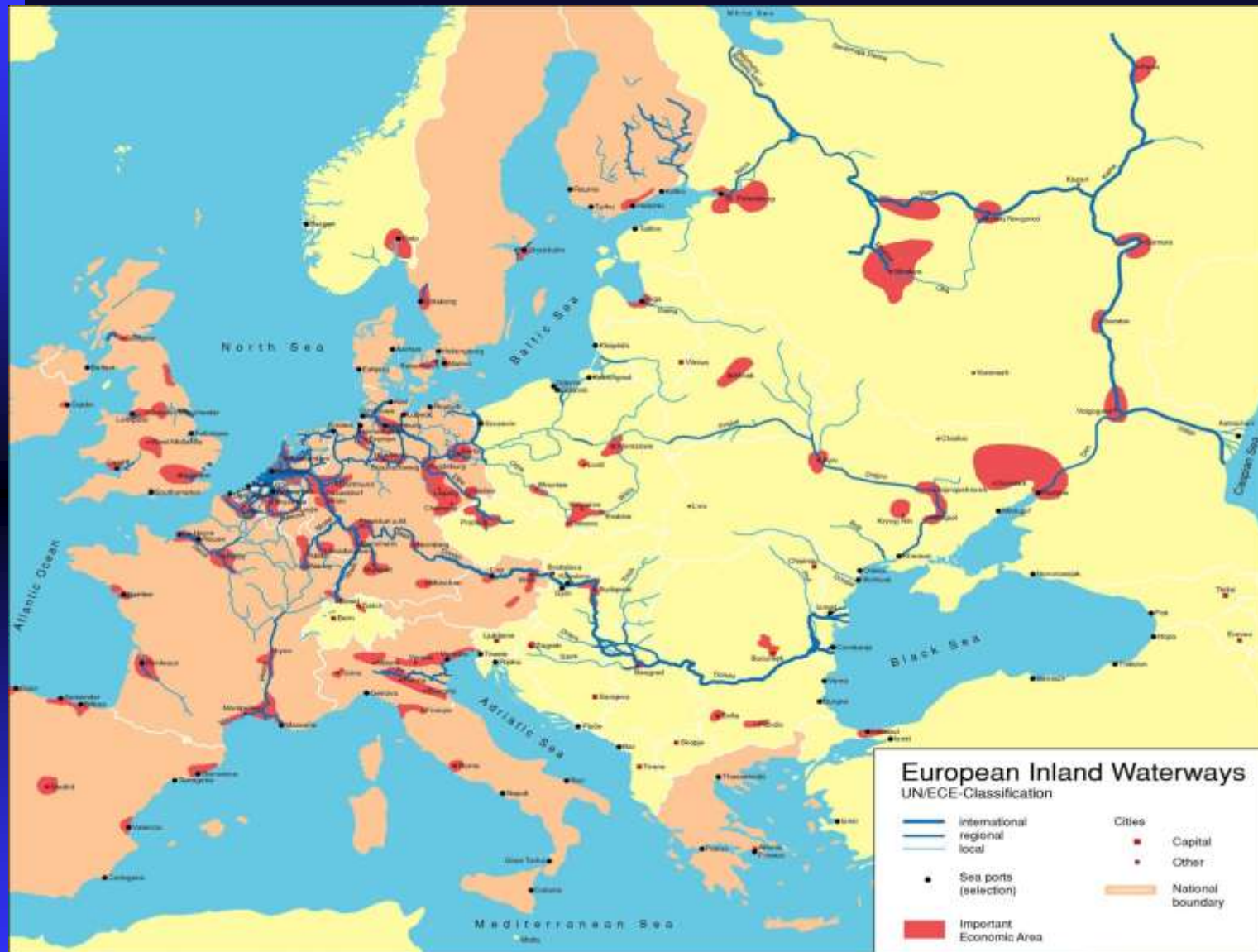
# INLAND NAVIGATION INTERNATIONAL: THE USA

Tonnage on Highways, Railroads and Inland Waterways: 2002



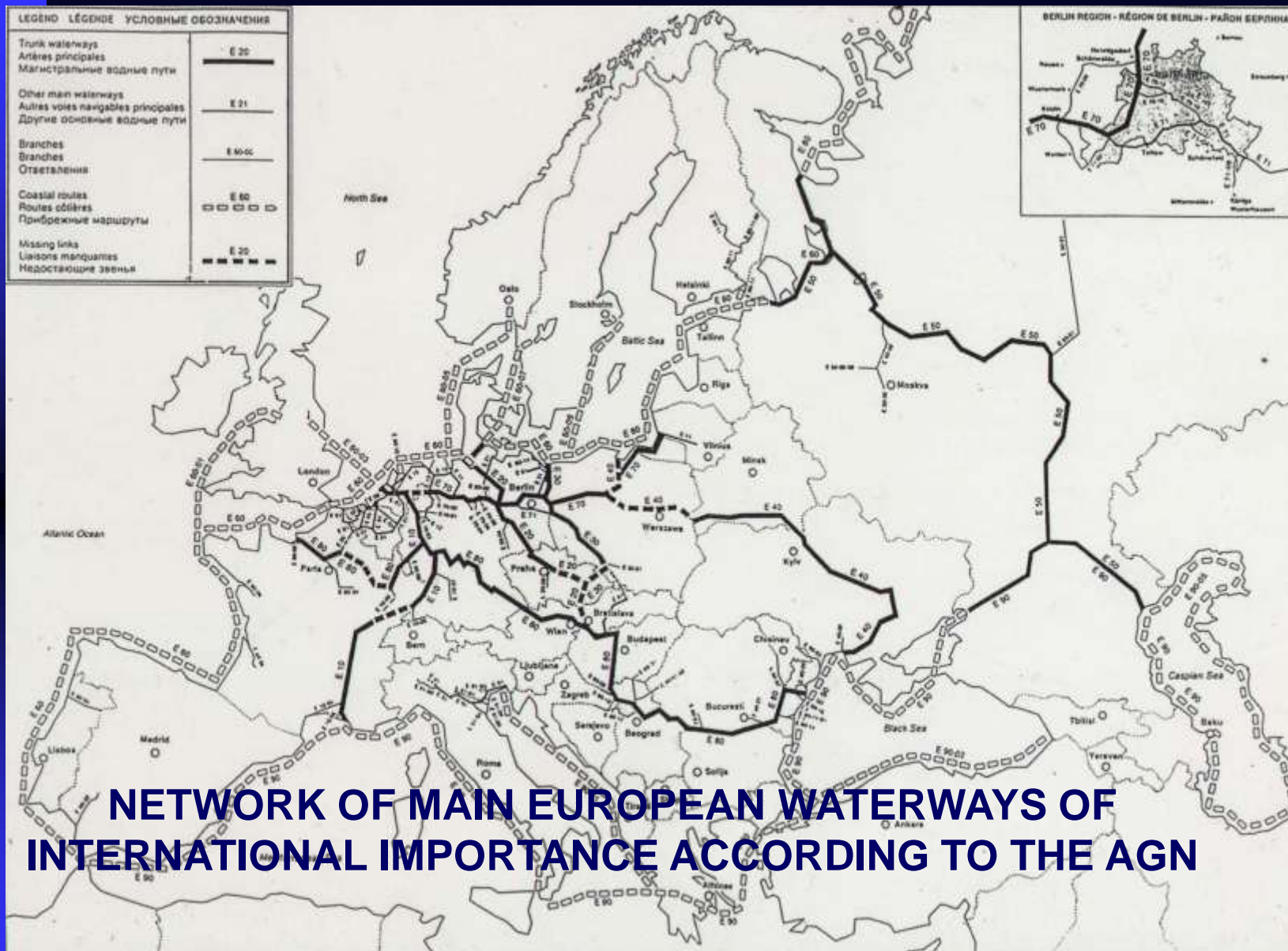
Sources: Highways: U.S. Department of Transportation, Federal Highway Administration, Freight Analysis Framework, Version 2.2, 2007. Rail: Based on Surface Transportation Board, Annual Carload Waybill Sample and rail freight flow assignments done by Oak Ridge National Laboratory. Inland Waterways: U.S. Army Corps of Engineers (USACE), Annual Vessel Operating Activity and Lock Performance Monitoring System data, as processed for USACE by the Tennessee Valley Authority; and USACE, Institute for Water Resources, Waterborne Foreign Trade Data, Water flow assignments done by Oak Ridge National Laboratory.

# INLAND NAVIGATION INTERNATIONAL: THE USA



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# INLAND NAVIGATION INTERNATIONAL: THE USA



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## AVALON CRUISES



# INLAND NAVIGATION INTERNATIONAL: THE USA





DELTA QUEEN, MISSISSIPPI

# INLAND NAVIGATION INTERNATIONAL: THE USA



# INLAND NAVIGATION INTERNATIONAL: THE USA

## HOW MUCH BARGES HOLD

### CARGO CAPACITY



BARGE  
1500 TON  
52,500 BUSHELS  
433,600 GALLONS



15 BARGE TOW  
22,500 TON  
787,500 BUSHELS



JUMBO HOPPER CAR  
100 TON  
3,500 BUSHELS



100 CAR UNIT TRAIN (GRAIN)  
10,000 TON  
350,000 BUSHELS



LARGE SEMI  
25 TON  
875 BUSHELS

### EQUIVALENT UNITS



1 BARGE



15 JUMBO HOPPERS



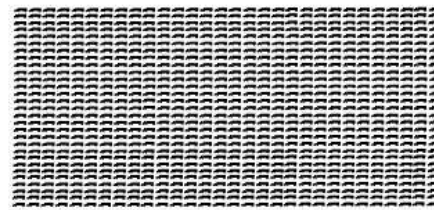
58 TRUCKS



1 TOW



2.25 UNIT TRAINS



870 TRUCKS

### EQUIVALENT LENGTHS



.25 MILE  
15 BARGE TOW



2.75 MILES  
2.25 UNIT TRAINS



34.5 MILES  
ASSUMING 150 FT.  
BETWEEN TRUCKS



US Army Corps  
of Engineers  
Louisville District



## The Erie Canal, New York State



In 2009, these counties generated:

- **\$7.1 billion** in visitor spending
- **23%** of all statewide tourism employment
- **\$464 million** in local taxes

## Marketing the canal

Home » What To Do » See & Do » Seneca Museum of Waterways and Industry

### Seneca Museum of Waterways and Industry

ABOUT What's Nearby: SEE & DO EVENTS EAT STAY

Seneca Falls, Finger Lakes

**Description:**  
Focuses on the vital role played in regional development.

**Location & Contact Info:**  
89 Fall St  
Seneca Falls, Finger Lakes, NY

**Directions:** NYS Thruway Exit 4  
**Phone:** 315-568-1510  
**Fax:** 315-568-1504  
**Email:** [senecamuseum@yahoo.com](mailto:senecamuseum@yahoo.com)



Home » Plan Your Trip » Travel Ideas » Canaltown Days – 15 Miles of Fun!

### Canaltown Days – 15 Miles of Fun!

ABOUT

If you've never navigated on the Erie Canal, historic *Palmyra's Canaltown Days* (September 18 and 19) will give you the opportunity.

One of the oldest towns in the *Finger Lakes* region, Palmyra was founded in 1789. The opening of the Erie Canal in 1825 made the town an important center of trade along the busy waterway, and it became known as the "Queen of Canaltowns." About 20 miles south of Rochester, Palmyra has preserved an astonishing amount of its original architecture, from the early 1800s to Victorian-era grandeur.

### Time Travel on the Erie Canal

Nearly every kind of person traveled the bustling Erie Canal in the 1800s. Today, the enchanting 524-mile NYS Canal System attracts nearly every kind of vacationer.

Adventurers are drawn to the beauty and mystery of this Huck Finn-style escape where well-preserved towns and meandering 1,000 street-long tree-lined alleys line the miles. Beginning from Albany on Buffalo, the Erie Canal runs 300 several offshoots and many water trails to more scenic sites like the Finger Lakes, the Canal Lakes and some of the nation's best fishing spots.

Boaters love the unique experience of drifting upon each historical system. Hundreds of marinas provide services along the way and several recently completed harbors and waterfront projects offer overnight docking, potable water, pump-out and electricity.

Ho-ho-ho! No problem! Rentals are available, ranging from traditional English-style rowboats and modern, in-powered and furnished. You can also rent a boat for a day. From Lake Champlain to Lake Erie, near to you, you can charter a captain and crew for the day or ride from lock to lock for just an hour or two.

Landlubbers will find a variety of accommodations in rooms, cottages and villas, as well as Camptocidal Inns and inns, and more than 250 miles of trails for biking, walking, horseback riding or, jamming up on old mule-rimmed sleds to pull your bags along!

For a copy of the Canal System Cruising Guide, visit [nyscanals.gov](http://nyscanals.gov).

**I ♥ NY**  
Revelry.com/outdoors

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FINGER LAKES

## Marketing the canals through learning

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iloveny.com

**2010 Tourism Readiness Workshops**

**ERIE CANALWAY**  
Inland Waterway System

### Preparing for the International Market

**DATES:** Monday, August 30, Ballhurst Centre, Geneva  
Tuesday, August 31, Yesterday's Royal, Syracuse Beach  
Wednesday, September 1, Century House, Lockport

**TIME:** 10:00 am to 1:00 pm

**COST:** \$20 per person (includes lunch)

These workshops are intended for all organizations, communities and businesses, regardless of previous involvement or knowledge of international tourism.

**Sponsors**

- Oswego County
- Albany
- Other regional sponsors

**Agenda Topics:**

- Working with local and regional partners
- How international tourism works and how to get involved
- How to represent your destination on an international marketing website... and much more!

**RSVP to Lori Dault:** [lori\\_dault@partner.ny.gov](mailto:lori_dault@partner.ny.gov) by **AUGUST 23rd**  
Call for more information 518-237-7000 ext. 220. See registration form for more details.

**Supporters**  
Cayuga County, Montgomery County, Schoharie County Chamber, Oneida County, Seneca County, Syracuse Convention and Visitors Bureau, and Upstate NY Tourism Alliance

## International Tourism Workshops

# INLAND NAVIGATION INTERNATIONAL: THE USA





# INLAND NAVIGATION INTERNATIONAL: THE USA



# SMART RIVERS

## 2011 CONFERENCE

*Discover the Keys to Inland  
Navigation's Sustainable  
Future Around the World*  
New Orleans, Louisiana, U.S.A.

SEPTEMBER 13 – 16, 2011

THANK YOU WITH THE PURPLE MERMAID!

