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## National Gap Analysis Program Meeting

The University of Wisconsin System provides equal opportunity in employment and programming including Title IX requirements. Please advise us at the time of registration or at least two weeks prior to the start of the course if you desire special accommodations.

Duluth, Minnesota

9th  
Annual  
National  
Gap  
Analysis  
Program  
Meeting

AUGUST 2-6, 1999



# GAP

In cooperation with the University of Wisconsin-La Crosse

## Who Should Attend

This meeting is for those actively working on Gap Analysis Projects, as well as sponsors, cooperators, GAP data users and those intending to start a Gap Analysis Project in the near future. Day registrations are offered for those unable to attend the entire meeting.

## Registration

The registration fee for this meeting is \$160 (\$175 after July 20th) and includes refreshment breaks, Monday evening reception, Tuesday evening dinner, Wednesday luncheon and conference materials. See the registration form for daily fees.

Refund and Cancellation Policy: Requests for refunds are honored if received four full working days before the start of the course. However, substitutions are accepted at any time. The University may cancel the meeting due to insufficient enrollment or other unforeseen circumstances. If the meeting is canceled, the University will refund registration fees, but cannot be held responsible for any other costs, charges or expenses, including cancellation/change fees assessed by airlines or travel agencies.

## Dress

Casual clothing is in order with a sweater or light jacket occasionally needed for the evenings. The DECC is within walking distance from the hotels, so be sure to wear comfortable walking shoes.

## FIELD TRIPS

### • Bayfield Peninsula and the Apostle Islands Friday, August 6th, 8:00 AM – 8:30 PM

Come with us and enjoy Lake Superior and all its wonders. It is here the Ojibwe migrated from the east to Madeline Island and in the years that followed, the French and British explorers as well.

Lake Superior is the largest freshwater lake in the Western Hemisphere. Additionally the Apostle Islands boast 21 islands, 12 miles of pristine shoreline and possess more lighthouses than any other coastline in the United States.

We'll travel to Bayfield, Wisconsin, where you'll enjoy a stop at the Apostle Islands Park Headquarters for a slide presentation on the natural resources of the islands and learn about current research being conducted. There will also be time for brief sightseeing of the Bayfield area. You will then enjoy a traditional fish boil at Greunke's Restaurant before the cruise on the Islander to Stockton Island. At Stockton Island you'll enjoy two hours of legendary beaches and hiking trails and learn about the flora and fauna of the region. Stockton Island has a visitors center to orient you to the area, and guided hikes through the forest are available.

Your tour includes luxury motorcoach transportation, tour manager, all-inclusive lunch and the Islander Cruise to Stockton Island.

Cost is \$65 per person (25 person minimum). **Registration deadline is July 23.**

### • Charter Fishing on Lake Superior Monday, August 2nd, 1:00-6:30 PM or Friday August 6th, 7:00-12:30 PM, or 1:00-6:30 PM

Come and join us for a great fishing trip aboard the Fishin' Luhrs. The day begins with the thrill of the world famous Aerial Bridge lifting to allow passage through the Duluth Ship Canal onto the largest freshwater lake in the world. You can expect to catch Lake Trout, Steelhead, Coho and Chinook Salmon and Walleye. You'll enjoy the panoramic view of the surrounding area, the pristine waters of Lake Superior and the unforgettable sight of foreign and domestic ships.

All necessary fishing equipment, all required U.S. Coast Guard safety equipment, and fish filleting and bagging will be provided. You will need to bring current MN or WI fishing license and trout stamp (available for purchase at boat for approximately \$10), warm clothing (temperature changes may be extreme), sunglasses, rain gear, soft-soled shoes (no boots), refreshments (food and beverage), large cooler for transporting fish, and camera or video camera.

Cost is \$70 per person/per half day session (five person minimum each session). **Registration Deadline is July 16.**

## MEETING LOCATION and HOTEL INFORMATION

The National Gap Analysis Program Meeting will take place in the Duluth Entertainment Convention Center (DECC). The DECC is located on the spectacular shores of Lake Superior, right in the heart of Duluth's most popular tourist attractions.

Sleeping rooms are being held at the *Radisson Hotel* (phone: 218-727-8981) and *The Inn on Lake Superior* (phone: 218-726-1111). The Radisson Hotel is located two blocks from the DECC and is connected to it via skywalk. The hotel offers spacious guest rooms, indoor heated pool, whirlpool and sauna. The meeting rate is \$59.00, inclusive of taxes (1-4 people). The Inn on Lake Superior is also located two blocks from the DECC. It is located in historic Canal Park on Duluth's famous Lakewalk. Many rooms include lakefront balconies. The Inn offers an indoor pool, spa, sauna and complimentary continental breakfast. Rates, not inclusive of taxes, are \$99 for poolside rooms, \$109 for lakeside rooms and \$119 for a lakeside suite (1-4 people).

## Parking

Parking is provided free at the Radisson Hotel and the Inn on Lake Superior. Parking at the DECC is \$3 per day. The DECC is within walking distance of both hotels.

## DULUTH, MINNESOTA

Located on the beautiful shores of Lake Superior, the world's largest body of fresh water, sits a sprawling city cut out of the rugged northern Minnesota wilderness. The main hub of the city is an area that connects the lake to the harbor – Canal Park. Welcoming ships from all the oceans and visitors from everywhere else, Duluth's canal forms the entrance to the world's largest, farthest-inland seaport. It is home to the famous Aerial Life Bridge, which rises to a height of 138 feet to greet these massive vessels.

Duluth features an old-fashioned boardwalk called the Lakewalk. Winding quietly beside the waves, the Lakewalk offers breathtaking views of Lake Superior. It also takes you through a sculpture garden, quiet city parks, past a 580-foot mosaic mural and through a meticulously designed rose garden. Perfect for walking, jogging, bicycling and rollerblading, the Lakewalk connects visitors to the city, the water and everything they both have to offer.

The Duluth International Airport is located less than 10 minutes by shuttle or taxi to all of Duluth's downtown hotels. Duluth is serviced by Northwest and American airlines. Duluth is a 2 hour drive via Interstate 35 from Minneapolis metropolitan.

## AUGUST 2nd, MONDAY, DAY 1

### AFTERNOON

1:00-5:00 Registration and poster set-up

#### Technical Demos:

(Walnut Room-ERDAS; Poster Room: Self-Guided Demos)

- 1:00-5:00 Walnut Room: ERDAS: Remote Sensing and Gap Analysis: A New Approach--Kurt Schwoppe and J. Beau Jarvis  
Poster Room: Self-Guided Demos:
- California CD-ROM
  - BEST: Biodiversity Expert Systems Tool
  - Refuge-GAP: FWS Refuge Planning Decision Support Tool
  - A GIS Decision Support System for a Combined Enduring Features and RTES Approach to GAP Analysis--Ian Finlay
  - GAP Final Report CDs: AR, ME, MT, NM, WY
  - Great Plains Database/Expert System for Vertebrate Modeling and Metadata Management--Jack Cully

#### Field Trips:

- 1:00-6:30 Chartered Fishing  
On your own  
(North Shore Drive, Jay Cooke State Park, Harbor Cruise)

### EVENING

5:30-8:30 Social Mixer and poster review

## AUGUST 3rd, TUESDAY, DAY 2

### MORNING

- 7:30-8:00 Registration and Refreshments/Poster Session open  
8:00-8:25 Welcome and Instructions by Daniel Fitzpatrick  
8:25-8:45 Introduction by Mike Jennings  
8:45-9:15 Keynote: Dave Cleland, Coordinator, Great Lakes Ecological Assessment, USDA Forest Service: North Central Forest Experiment Station, Rhinelander, Wisconsin  
9:15-9:30 Denny Fenn, Chief Biologist, Biological Resources Division  
9:30-10:00 Refreshment break  
10:00-10:20 Gladys Cotter, Assistant Chief Biologist for Informatics and Outreach  
10:20-10:50 Challenges and Opportunities for Biodiversity Assessments in Aquatic Environments--Scott Sowa  
10:50-11:20 GAP Sociological Analysis and Grant Program--Jean McKendry  
11:20-11:50 Canada and Gap Analysis: Prospects and Impediments--Gary Umphrey  
11:50-12:00 Introduction to working sessions--Patrick Crist  
12:00-1:15 Lunch (on your own)

### AFTERNOON

#### Concurrent Sessions:

- (Room 1--Land Cover; Room 2 --Animal Distributions)
- 1:15-1:30 1. Land Cover-Introduction by Moderators--Mike Jennings and Alexa McKerrow  
2. Animal Distributions--Introduction by Moderator--Craig Allen
- 1:30-2:00 1. Keeping GAP Vegetation Mapping Current Over Time: Towards a Continuously Updated Multi-Use Coverage--William Befort  
2. Accuracy Assessment of Predicted Vertebrate Occurrences: Are Detailed National Standards Technically Feasible?--William Krohn
- 2:00-2:15 1. Airborne Video Sampling Effort for Accuracy Assessment of Thematic Maps: A Simulation Experiment--Kenneth Driese
- 2:15-2:30 1. Recent Innovations in Aerial Videography, Automatic Rectified Mosaics, Canopy Profiling, and the How-to Web Site--Dana Slaymaker
- 2:00-2:30 2. Great Plains Database/Expert System for Vertebrate Modeling and Metadata Management--Jack Cully
- 2:30-3:00 1. Criteria and Consequences to Guide Decision-Making When Designing a Map Accuracy Assessment -- Erwin Klaas  
2. TBA--Townsend Peterson
- 3:00-3:30 Refreshment break  
3:30-5:00 Working group discussion lead by moderators

### EVENING

- 5:00-6:00 Poster review with authors available  
7:30-10:00 Banquet  
8:30-9:15 Banquet Speaker: Malcolm Hunter, Jr., Professor of Wildlife Resources and Libra Professor of Conservation Biology, University of Maine

## AUGUST 4th, WEDNESDAY, DAY 3

### MORNING

- 7:30 Poster Session opens  
7:30-8:00 Refreshments
- #### Concurrent Sessions:
- (Room 1--Stewardship & Analysis; Room 2--Aquatic GAP)
- 8:00-8:15 1. Stewardship & Analysis--Introduction by Moderator--Reed Noss  
2. Aquatic GAP--Introduction by Moderator--Scott Sowa
- 8:15-8:35 1. An Evaluation of Conservation Thresholds Used to Define Protected and Unprotected Vertebrates in Gap Analyses--William Krohn  
2. Establishing Initial Priorities for the Conservation of Biodiversity in Riverine Environments--Scott Sowa
- 8:35-8:55 1. Comparison of Protected Area Proposals Resulting from Life Science Gap Analyses with Protected Area Achievements Following a Planning Process in Ontario--William Crins  
2. Selecting Priority Aquatic Conservation Sites: Application of The Nature Conservancy's Aquatic Classification--Jonathan Higgins
- 8:55-9:15 1. A Representation Analysis of the Lake Superior Watershed Using Available Data--William B. Stephenson  
2. Gap Analysis for Fish Assemblages in Lakes--Charles Minns
- 9:15-9:45 1. Landscape Analysis in Support of Biodiversity Planning--David Capen  
2. Aquatic Resource Mapping and Conservation Planning in Florida--Theodore Hoehn
- 9:45-10:15 Refreshment break  
10:15-12:00 1. Working group discussion led by moderators  
10:15-10:45 2. Using Habitat Affinity Indices to Assess Value of Estuarine Fish Habitats--David Nelson
- 10:45-12:00 2. Working group discussion led by moderators  
12:00-1:30 Luncheon (provided)  
"Gap 'Til You Drop: Application of Gap Analysis at Global, Regional, and Ecoregional Scales"--Eric Dinerstein, Chief Scientist, World Wildlife Fund

### AFTERNOON

#### Concurrent Sessions:

- (Room 1--Metamaker Workshop; Room 2--NatureMapping/Workshops; Room 3--Outreach & Applications/Julie Prior-Magee, moderator)
- 1:30-5:00 1. Discovering Biological Data-FGDC/NBII Clearinghouse--Sharon Shin  
2. Educating the Public Through the NatureMapping Program as a Win-Win Solution for Local Dissemination of GAP Data Sets--Karen Dvornich
- 1:30-2:30 2. Using Aerial Videography--Dana Slaymaker
- 2:30-3:30 3. Fine Filter Gap Analysis Example in Southern New Brunswick, Canada--Judy Loo
- 2:30-2:50 3. Implementing Decision Support Systems: Data/Science Framework Needs--Patrick Crist
- 2:50-3:10 3. A GIS Decision Support System for a Combined Enduring Features and RTES Approach to GAP Analysis--Ian Finlay
- 3:10-3:30 3. A GIS Decision Support System for a Combined Enduring Features and RTES Approach to GAP Analysis--Ian Finlay
- 3:30-3:45 Refreshment break

#### Additional Sessions:

- 3:45-5:00 Computer demonstrations in poster room  
3:45-5:00 2. Taking it to the Web: Integration of Colorado GAP's Information into Colorado's Natural Diversity Information Source to Facilitate Conservation Planning--Donald Schrupp

