



# ISRI

Invasive Species Research Institute

Meeting of Upper Great Lakes Invasive  
Species Interests  
November 5, 2009



Photo from R&B Cormier

The Invasive Species Research Institute is a non profit organization with a mandate to provide human resource and facility support to Algoma University faculty, students and partners for knowledge generation and education on invasive species.



# ISRI

Invasive Species Research Institute

- Incorporated spring 2008 Interim Board established
- Managing Director via SSM Innovation Centre/seA
- Algoma U. faculty
  - Istvan Imre, fish biology
  - Brandon Schamp, plant ecology
  - Pedro Antunes, Research Chair (Jan. 2010) via OMNR MOU
  - 2 additional faculty for biology dept in 2010
  - Possible Research Chair Chemical Ecology of Invasive Species
- CFI application – invasive species containment facility Nov. 2008
- Algoma U. Biosciences and Technology Convergence Centre – completion date March 2011
- 2 public outreach interns May 2009



Bioscience and Technology Convergence Centre



Photo from R&B Cormier

# Invasive species Interns at work

Improving education and public awareness concerning the threat of invasive species continues to be an important cornerstone of Algoma University's mandate. ISRI is currently involved in a number of public outreach activities in the District of Algoma through its Northern Ontario Heritage Fund Corporation (NOHFC)-funded internship programs.

- International Biodiversity Day
- ARTIE
- Children's source Water festival
- Green Expo
- First nations community awareness initiative
- Workshops
- Dock talks
- School Presentations
- Field Investigations





SAULT STE. MARIE  
**INNOVATION**  
CENTRE



**ISRI**  
Invasive Species Research Institute

## Invasive Species Research Institute Database Information Survey

Contact Name:

Job Title:

Department:

Organization:

Address  City:  Postal Code:

Telephone:  Fax:  Province:

E-mail:  Webpage:

Education:

Vision/Research Focus:

Other Areas of Expertise:

Current Projects:

Which of the following invasive species do you work with?  
Please check all that apply

Terrestrial Insects

- Asian Long Horned Beetle
- Dutch Elm Disease
- Emerald Ash Borer
- Gypsy Moth
- Mountain Pine Beetle
- Sirex Wood Wasp

Terrestrial Plants

- Big Leaf Periwinkle
- Canada Thistle
- Common Buckthorn
- Common Periwinkle
- Dog Strangling Vine
- Garlic Mustard
- Giant Hogweed
- Glossy Buckthorn
- Japanese Knotweed
- Leafy Spurge
- Spotted Knapweed

Aquatic Fish/  
Crustaceans

- Chinese Mitten Crab
- Common Carp
- Eurasian Ruffe
- Fishhook Waterflea
- Round Goby
- Rusty Crayfish
- Sea Lamprey
- Spiny Waterflea
- Zebra Mussel

Aquatic Plants

- Common Reed
- Eurasian Water Milfoil
- European Frog Bit
- Flowering Rush
- Purple Loosestrife
- Reed Canary Grass
- Water Soldier

Other

Other

Other

Other

Would you like your contact information visible to everyone?

Yes

No

Please contact the Invasive Species Awareness Coordinators at (705) 949-2301 ext. 3160 or [invasivespecies@algomau.ca](mailto:invasivespecies@algomau.ca) regarding any questions or comments.

**An example of a listing under the Invasive Species Human Resources Directory –**

**Contact Name:** Dr. Brandon Schamp

**Job Title:** Assistant Professor

**Organization:** Algoma University

**Department:** Department of Biology

**Address:** 1520 Queen St. East

**City:** Sault Ste. Marie      **Postal Code:** P6A 2G4      **Province:** ON

**Telephone:** 705-949-2301 x4358      **Fax:** 705-949-6583

**Email:** [brandon.schamp@algomau.ca](mailto:brandon.schamp@algomau.ca)

**Webpage:** <http://people.auc.ca/schamp/index.html>

**Education:**

M.Sc. Biology, Queen's University, Kingston, Ontario, Canada;

Ph.D. Biology, Queen's University

**Vision/Research Focus:**

My research focuses on understanding the mechanistic bases for observed patterns of abundance and diversity within natural communities. This research relates strongly to Invasive Species Biology in that it addresses the question of why some species can achieve higher local densities than others

**Other Areas of Expertise:**

General taxonomy, statistical biology, spatially explicit modeling, field ecology

**Current Projects:**

My current research program focuses on identifying, and explaining general rules of plant community assembly. Three specific hypotheses that I am working on are:

- a) How do negative co-occurrence patterns change along gradients of disturbance;
- b) What species-level traits drive the assembly of plant species within natural communities;
- c) Can negative co-occurrence patterns indicate the potential for a community to be invaded?

**Species Individual Works With:**

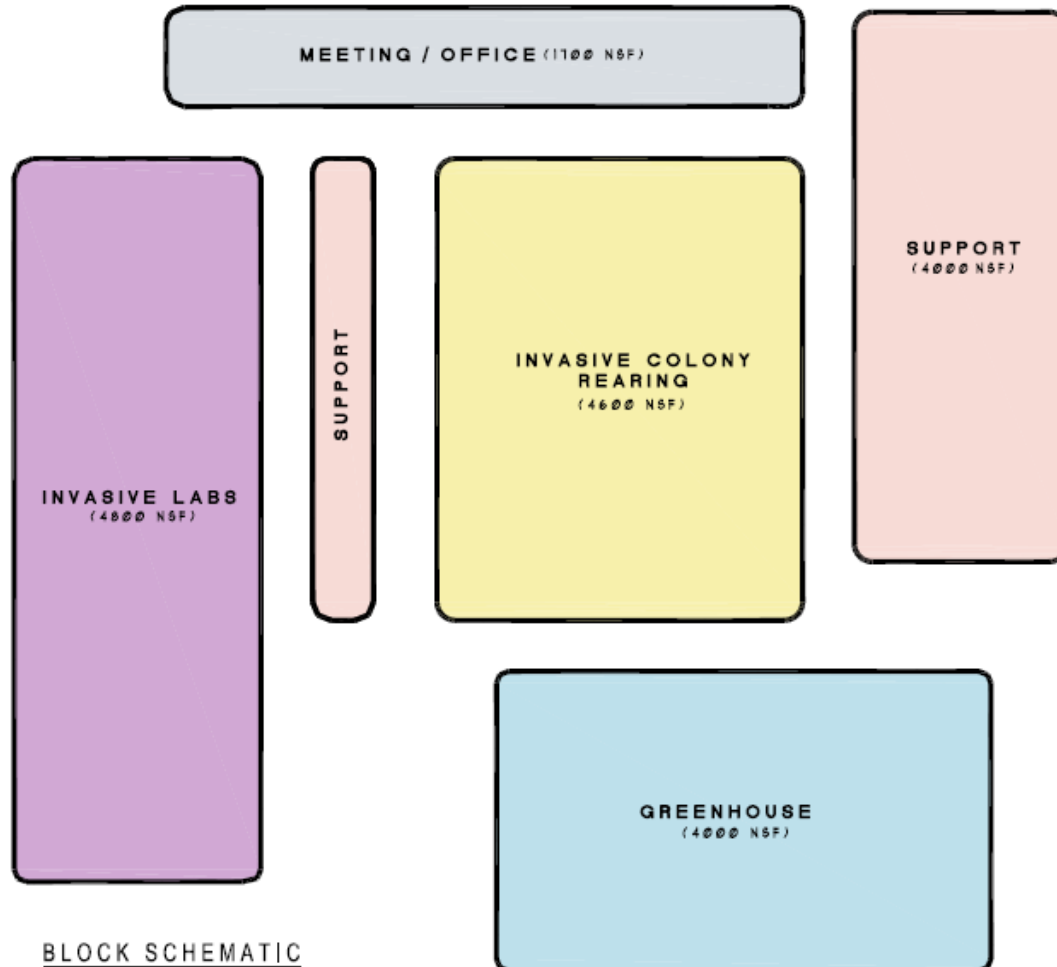
Alfalfa

Bromus inermis

Canada Thistle

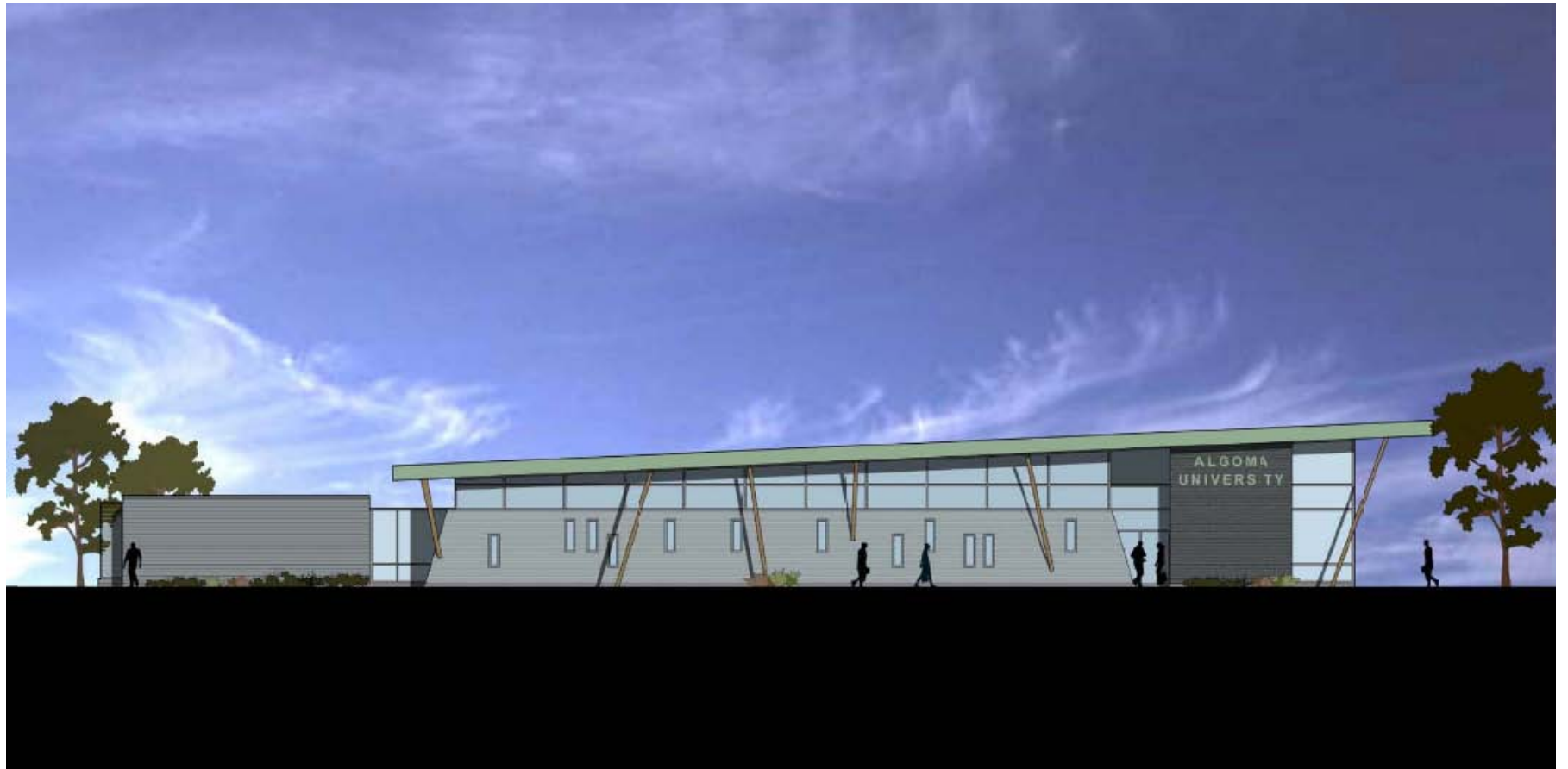
Reed Canary Grass

# General Components



BLOCK SCHEMATIC







# ISRI

Invasive Species Research Institute

- NSERC Strategic Network
- Renewed CFI proposal
- Trillium and other funding applications
- Transfer web materials from seA to ISRI
- Continue internship programs
- Establish collaborations
- Finalize Board
- Foster relations with U.S. colleagues



# ISRI

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Asian Longhorned Beetle



Sea Lamprey



Emerald Ash Borer

For more information contact:

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