

## Who should attend?

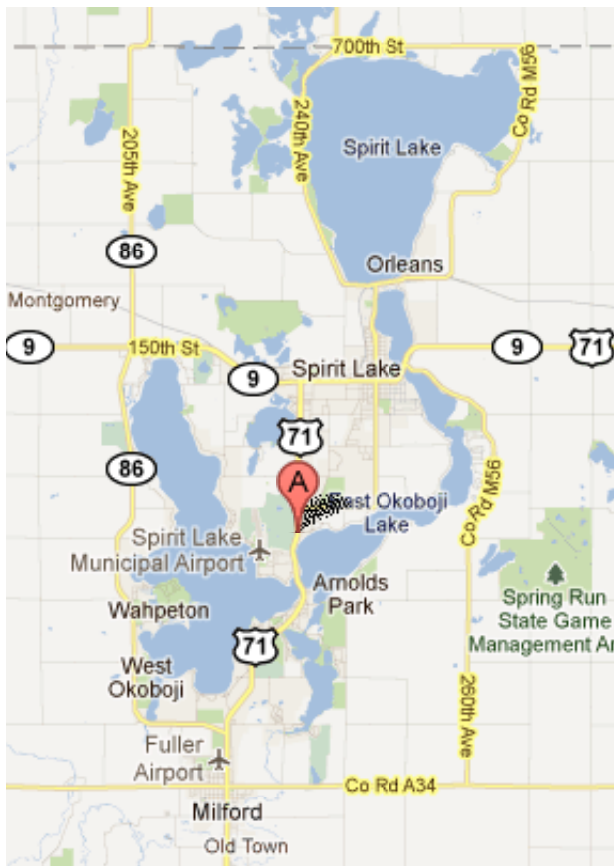
- Researchers and educators
- Federal and state agency personnel
- County drainage authorities
- Producers
- Drainage contractors
- Crop consultants
- Anyone interested in drainage and water management research in the upper Midwest.

## Location and lodging

The Forum will be held at the Arrowwood Resort and Conference Center, 1405 Highway 71 South, Okoboji, IA 51355.

Reservations: (800) 727-4561

For additional information please visit [www.arrowwood-okoboji.com](http://www.arrowwood-okoboji.com).



## Questions

For registration questions, call (515) 294-6429 or e-mail [anr@iastate.edu](mailto:anr@iastate.edu).

Program content questions should be directed to:

**Dr. Matthew Helmers**, Agricultural and Biosystems Engineering, Iowa State University.  
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(605) 688-5610, [Christopher.Hay@sdstate.edu](mailto:Christopher.Hay@sdstate.edu).

## Sponsors

Department of Agricultural and Biosystems Engineering, Iowa State University; Department of Bioproducts and Biosystems Engineering, University of Minnesota; and Department of Agricultural and Biosystems Engineering, South Dakota State University. Additional support provided by:

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# Iowa - Minnesota - South Dakota Drainage Research Forum

November 22, 2011

Arrowwood Resort and  
Conference Center  
Okoboji, Iowa

**IOWA STATE UNIVERSITY**  
Extension and Outreach



UNIVERSITY OF MINNESOTA  
**EXTENSION**



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## Program

For additional information, visit [www.aep.iastate.edu/drf](http://www.aep.iastate.edu/drf).

### Morning session

- 8:00 am Registration and morning refreshments
- 9:00 Biomass production strategies and potential impacts in the drained lands - Environmental implications - *Matt Liebman*
- 9:45 Two-stage ditch design  
*Joe Magner*
- 10:30 Break
- 10:45 Saturated buffers  
*Dan Jaynes*
- 11:30 River flows and drainage in the Minnesota River Basin  
*Jason Ulrich*
- 12:15 pm Lunch

### Afternoon session

- 1:00 Phosphorus loss through subsurface tile drainage  
*Antonion Mallarino*
- 1:45 Pumped outlets  
*Tom Scherer*
- 2:30 Break
- 2:45 Farmer perspective on emerging drainage practices  
*Tony Thompson*
- 3:15 Activities to address nutrient loss from drained landscapes:  
*Commodity group perspectives:*  
- *South Dakota Corn*  
- *Minnesota Corn Growers*  
- *Iowa Soybean Association* - *Todd Sutphin*
- Open discussion
- 4:15 Forum concludes

## Presenters

### Dan Jaynes

*professor, Agronomy and soil scientist, USDA-ARS National Laboratory for Agriculture and the Environment, Ames, Iowa*

### Matt Liebman

*professor, Agronomy, Iowa State University.*

### Joe Magner

*research professor, Bioproducts and Biosystems Engineering, University of Minnesota*

### Antonio Mallarino

*professor, Agronomy, Iowa State University*

### Tom Scherer

*associate professor, Agricultural and Biosystems Engineering, North Dakota State University*

### Todd Sutphin

*state watershed coordinator, Iowa Soybean Association*

### Tony Thompson

*farmer, southwest Minnesota*

### Jason Ulrich

*research fellow, Bioproducts and Biosystems Engineering, University of Minnesota*

## CCA Credits

Continuing education credits for Iowa Certified Crop Advisers have been applied for in the following category: 6.0 in soil and water management. Credit offerings are subject to approval.

## Registration

### Three convenient ways to register:

1. Online with VISA or MasterCard at [www.aep.iastate.edu/drf](http://www.aep.iastate.edu/drf)
2. Fax with credit card information to (515) 294-1311
3. Complete registration form and send with payment to:  
Drainage Research Forum  
2101 Agronomy Hall  
Ames, IA 50011-1010

Checks should be made payable to Iowa State University. If you have questions regarding registration, please call (515) 294-6429 or e-mail [anr@iastate.edu](mailto:anr@iastate.edu).

### Registration Fee

Includes lunch and refreshment breaks.

Early registration .....\$60

After midnight, November 16 .....\$75

*Registrations will be accepted the day of the program at the higher rate.*

Total submitted..... \$ \_\_\_\_\_

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Name

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Organization

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Address

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Daytime phone

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*E-mail - you will receive your registration confirmation and receipt by e-mail.*

\_\_\_\_\_  
*Credit card number (VISA or MasterCard only)*

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Expiration date

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Nov 2011 | ANR 0402