Table of Contents

Iowa Maintenance Training Expo, pages 2–4

Snow Plow and Motor Grader Roadeos, page 5

“Build a Better Mousetrap,” page 6

Registration Form, page 7
(or register online at www.ucs.iastate.edu/mnet/iowaexpo/home.html)
Iowa Maintenance Training Expo 2005

With tight transportation budgets and limited staff, all-season maintenance has become especially challenging, but Iowa’s transportation professionals are committed to satisfying the public’s expectations for safe travel in all kinds of weather and on all of Iowa’s roadways.

To help transportation professionals meet that commitment, the Expo will include
- equipment and maintenance demonstrations
- vendor displays
- “Build a Better Mousetrap” competition and demonstrations
- educational sessions
- keynote speakers

Who Should Attend?
The Expo is for city, county, and state staff responsible for all-season maintenance:
- roadway maintenance supervisors
- maintenance equipment operators
- technology and equipment providers
- public works superintendents
- city and county engineers
- airport maintenance staff

One of the strengths of the Expo is the variety of people who will participate. You will meet participants who perform the same job you do and others who fill entirely different roles.

Special Events
Along with the educational sessions and vendor displays, the Expo will also include the roadeos and “Build a Better Mousetrap” competition.

Snow Plow Roadeo, Sept. 6
Iowa’s Snow Plow Roadeo offers plow operators an opportunity to challenge each other’s driving skills. This event typically attracts teams from city, county, and state shops all around Iowa.

More than just a good time, preparing for and participating in the roadeo is a great way to develop your shop’s vehicle maintenance program and increase operators’ safety awareness.

More information is available on page five. See a course description and map at www.cte.iastate.edu/events/expo/snowplow.htm.

Tandem Snow Plow Exhibition New This Year!
A non-competitive tandem snow plow course will be available after the driving portion of the roadeo.

Motor Grader Roadeo, Sept. 6
The Motor Grader Roadeo challenges operators in the safe and efficient operation of a motor grader. This event requires frame and moldboard positioning that simulates different job requirements an operator faces involving the preparation of road surfaces and shoulders, drainage, and snow removal.

More information is available on page five. See a course description and map at www.cte.iastate.edu/events/expo/mogo.htm.

Build a Better Mousetrap, Sept. 7
This competition, now in its fifth year, celebrates the innovative tools and techniques created by Iowa public transportation agency personnel.

More Awards This Year!
Three “Best in Show” awards will be given, equaling eight total awards!

See page six for more information and instructions on entering. To read about previous years’ winners, see www.cte.iastate.edu/pubs/mousetrap/.

Questions
After reading this brochure, if you have questions about
- the Expo, contact Duane Smith, Center for Transportation Research and Education (CTRE), 515-294-8103, desmith@iastate.edu
- the Snow Plow Roadeo, contact Bob Dingman, City of West Des Moines, 515-222-3480, bob.dingman@wdm-ia.com
- the Motor Grader Roadeo, contact Ron Dirks, Pocahontas County, 712-335-3252
- registration, contact University Conference Services, 515-294-5366

Note: Because of scheduling difficulties, roadeo participants must choose either the snow plow or motor grader. Unfortunately, registration in both events cannot be accommodated.
Wednesday, September 7

Scheman Building
7:30–9:00 a.m.  Registration / vendor displays
9:00–12:00 p.m.  Sessions / vendor displays
11:00–12:00 p.m.  Mousetrap demonstrations
12:00–1:00 p.m.  Lunch / vendor displays
1:00–4:00 p.m.  Sessions / vendor displays
4:00 p.m.  Dismiss

Thursday, September 8

CY Stephens
8:00–8:45 a.m.  Changing How We Do Business
8:45–9:30 a.m.  New Technology AVL/GPS
9:30–10:00 a.m.  Break
10:00–10:30 a.m.  Better Mousetrap Awards
10:30 a.m.–12:00 p.m.  Don't Die Until You're Dead
12:00 p.m.  Dismiss

Session Topics for Wednesday

City Track
Chainsaw Safety
Gravel Road Maintenance
A Clean Sweep
IPERS—Retirement Planning Ideas
Low-cost Pavement Improvements
Snow Plow Know-how

County Track
Chainsaw Safety
Gravel Road Maintenance
Why Go Native?
IPERS—Retirement Planning Ideas
Low-cost Pavement Improvements
Snow Plow Know-how

Iowa DOT Track
New Technology Applications
Why Go Native?
IPERS—Retirement Planning Ideas
Green Diesel Technology
Snow Plow Know-how

Fleet Mechanic / Manager Track
Basic Electric Multiplexing Systems
Corrosion Impacts
Emission Requirements
Air Brakes / ABS

Thanks, Sponsors!

Iowa Chapter of the American Public Works Association
Iowa County Engineer's Association
Iowa Department of Transportation
Federal Highway Administration
Iowa LTAP at Iowa State University's Center for Transportation Research and Education
Educational Sessions

**Wednesday, September 7**

**Chain Saw Safety**
Avoid chain saw mishaps by learning (and watching) tried and true chain saw handling and safety techniques from an experienced chain saw operator with Mississippi Valley Stihl of Peoria, Illinois.

**New Technology for Iowa DOT**
Join this panel discussion on de-icing and winter maintenance. See equipment results from Iowa Department of Transportation (DOT) research activities. Presented by Larry Potridge, Harold Phipps, Brian Keltner, and Larry Shriver from the Iowa DOT.

**Why Go Native?**
Learn about the Iowa DOT’s use of native grasses and wildflowers in roadside ditches and the benefits for using native grasses and wildflowers. Presented by Mark Masteller, Iowa DOT.

**IPERS—Retirement Planning Ideas**
Whether you, an employee, or a co-worker plan to retire in the near or distant future, learn how to get the most out of your benefits.

**Green Diesel Technology**
Where is the industry headed with alternative fuel use? Join this discussion on biofuel use, soy fuel, and EGR systems and how these fuels affect your fleet. Presented by a representative from O’Halloran’s.

**Snow Plow Know-how**
Hints to help you out while on the roads. Tips gathered from data from real life situations in Minnesota. Presented by Wendy Fredrickson, Minnesota DOT.

**Fundamentals of Gravel Road Maintenance**
Learn about important issues such as maintenance operations, crown and slope, and drainage consideration. Presented by Fred Short, retired Audubon County engineer, and Duane Smith, CTRE Iowa LTAP director.

**A Clean Sweep (panel discussion)**
This panel discussion on municipal street sweeping will focus on the types of sweepers and practices that communities from around the state use in their maintenance operations.

Operators will talk about the differences between mechanical and vacuum type sweepers and how they perform sweeping operations in their communities. Bret Hodne, superintendent of public works with the City of West Des Moines, will lead the discussion.

**Pavement Repairs and Management**
This presentation will discuss picking the right maintenance techniques for asphalt streets and roads. It includes animations that show how streets and roads deteriorate and fail and how maintenance can protect them.

Included are construction photos of maintenance test sections from Iowa cities that were installed by Iowa workforces and contractors. Presented by Chuck Jahren, professor, Civil, Construction, and Environmental Engineering at Iowa State University.

---

**Motivational Speaker**

Steve Siemens, founder of Siemens People Builders, delights hundreds of audiences ranging from small businesses to Fortune 500 companies.

You will appreciate his interactive and humorous style and you’ll benefit from his common sense, practical ideas, and relevant message.

He has authored a book titled *Push-ups for People* and co-authored *Give Stress a Rest*.

**Don’t Die Until You’re Dead**
Eleven steps to add enthusiasm to your life and career. Very fun, very practical and still Steve’s most requested speech.
**Snow Plow and Motor Grader Roadeos**

**Tuesday, September 6, 2005**

Roadeo contestants compete in three activities that represent knowledge and skills that operators of snow plow and motor grader equipment should possess:

- a written exam
- a timed vehicle-defect identification exercise (Snow Plow Roadeo only)
- a driving test on a course that simulates roadway situations

**New this Year!**

A tandem snow plow course will be set up immediately following the driving test for teams to exhibit their driving skills. Teams won’t be scored on this experimental course.

**Who Should Participate?**

Operators from every city and county in Iowa and the Iowa DOT are encouraged to participate. Snow plow operators compete in teams of two.

**Registration Fee and Deadline**

The fee for the roadeos is $65 per person, which includes a box lunch. No extra charge for competing in the tandem snow plow course.

Registration deadline is August 26, 2005.

**Cancellation Policy**

Registrations cancelled in writing by August 26 will receive a full refund. After that date a $10 cancellation fee will be assessed. Substitutions may be made at any time.

**Vehicles**

All vehicles will be provided.

**For more information**

For more information about the driving courses and content requirements and to see maps of the courses, visit CTRE’s website:

**Snow Plow Roadeo**

www.ctre.iastate.edu/events/expo/snowplow.htm

**Motor Grader Roadeo**

www.ctre.iastate.edu/events/expo/mogo.htm

---

**agenda**

**Snow Plow Roadeo**

9:00–10:00 a.m. Registration (Scheman Building)

9:00–9:30 a.m. Judge's Meeting

9:00–10:30 a.m. Written Test

9:30 until done Vehicle Defect Identification

9:45 a.m.–2:00 p.m. Driving Test

11:30 a.m.–12:30 p.m. Box Lunch on Course

Following Driving Test Tandem Course

Following Tandem Awards, Door Prizes, Vendor Drawings

**Motor Grader Roadeo**

9:00–10:00 a.m. Registration (Scheman Building)

9:00–9:30 a.m. Judge's Meeting

9:00–10:30 a.m. Written Test

9:45 a.m.–2:00 p.m. Driving Test

11:30 a.m.–12:30 p.m. Box Lunch on Course

Following Driving Test Awards, Door Prizes, Vendor Drawings
Now in its fifth year, this competition is intended to recognize eight of the best submissions created by people working in Iowa’s public agencies. They include tools, equipment modifications, and systems that public agency personnel created to make their jobs easier, safer, and less costly.

**How to Participate**

To participate in this competition, complete the form on this page (or include a separate typed sheet) and mail it to the address below no later than August 26, 2005. There is no cost to enter.

All public agency personnel in Iowa are eligible.

**Awards**

For the five best inventions, a certificate, publication in *Technology News* as a “tip from the field,” and $100.

Three additional submissions will receive a “Best in Show” plaque. One submission will be chosen from each of the city, county, and DOT participants.

Awards will be given from 10:00 to 10:30 on Thursday, September 8.

**Judges**

Members of the Expo planning committee.

---

**“Build a Better Mousetrap” Submission Form**

Name of the “Better Mousetrap”

Inventor’s name

Job title

Organization

City, County, or DOT

Address

City

Zip

Phone

Fax

**Description of the “Better Mousetrap”**

Why was it necessary?

How does it work?

How was it built? (include sketches, photos, drawings)

How does it perform?

**Questions**

If you have questions about this competition, contact Duane Smith, CTRE, 515-294-8103, desmith@iastate.edu.
Participant Registration Fees:

(Check all that apply—Expo, Roadeo, or both. **Due to time constraints, you may enter one roadeo only.**)

- Expo, September 7–8, 2005
  - Iowa Maintenance Training Expo, $60
    (fee includes lunch and break refreshments)

Select one of the educational session tracks:
- Iowa DOT
- City
- County
- Fleet Manager

- Roadeos, September 6, 2005
  - Iowa Snow Plow Roadeo, $65
    (fee includes lunch and break refreshments)

  - Tandem course (non-competitive; no extra cost)
    (must also be registered for regular plow race)

Name of your team partner (your partner must complete a separate registration form):

_____________________________________________________

Agency or shop you represent:

________________________________

OR

- Motor Grader Roadeo, $65
  (fee includes lunch and break refreshments)

Total registration fee: $ __________

Questions?

If you have questions concerning the registration process, call ISU Conference Services, 515-294-5366. For other questions, see page 2.

Method of Payment:

Iowa DOT staff should include cost center and field office information on the registration form.

Other (non-Iowa DOT) registrants must include

1. a purchase order or authorization letter signed by the organization administrator on official letterhead
   - purchase order no. ________________________________

   OR

2. payment in the form of a check to Iowa State University or credit card information.
   - check (payable to Iowa State University)
   - credit card information
     - Visa
     - MasterCard
     - Discover
   - Exp. Date __________ Card Number __________
   - Cardholder name: _______________________________
   - Cardholder signature: ___________________________

Special Needs

Disability/dietary accommodations will be provided on request. Call University Conference Services, 515-294-5366.

Mail or FAX Form

Mail the completed form with the required fee to

Registration Clerk
University Conference Services
102 Scheman Building
Ames, Iowa 50011-1112

or FAX the form to 515-294-6223

Office use only ___06-2452
Reservations for lodging should be made directly with any of the following Ames motels:

- AmericInn Motel: 515-233-1005
- Baymont Inn and Suites: 515-296-2500
- Quality Inn & Suites Starlite Village: 515-232-9260
- Comfort Inn: 515-232-0689
- Comfort Suites: 515-268-8808
- Country Inn & Suites: 515-233-3935
- Gateway Center: 515-292-8600
- Hampton Inn: 515-239-9999
- Heartland Inn: 515-233-6060
- Iowa State Memorial Union: 515-292-1111
- Microtel Inn and Suites: 515-233-4444
- Super 8 Motel: 515-232-6510
- University Inn: 515-232-0280