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# TREASURE VALLEY SECTION ASME NEWSLETTER



The American Society of  
Mechanical Engineers

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## February 12th – Bogus Basin Chair Lift/Snowmaking Tour

Please join your fellow ASME members, and me, to learn more about the technical side of ski lifts and snowmaking at Bogus Basin Ski Resort. Mr. Steve Shake, Director of Mountain Operations, has lined up two of his expert coworkers to explain some of the technical details of Chairlifts and Snowmaking.

Let's meet upstairs in the main lodge, next to the mountain display model at 7 PM. For those of you playing hooky from your day job .... night skiing starts at 4 PM. Just plan ahead to come back in, early enough for our meeting. After a brief introduction, we will have a little time for questions and answers. Then, we'll put on our jackets, and go outside to get a closer look at some of the equipment. We'll try to finish up and get the ski fanatics back on the hill by 8:15 PM.

Best regards, Rudy Eggert  
Professor, Department of  
Mechanical Engineering  
Boise State University  
Boise, ID 83725

**Date:** Tuesday, Feb 12, 2002 (Lincoln's  
Birthday)  
**Time:** 7:00 – 8:15 PM  
**Meeting place:** Main lodge, upstairs next to  
mountain model.  
**RSVP by:** Monday, Feb 10th  
**RSVP to:** Alan Russell, 396-4439,  
[alan\\_russell@hp.com](mailto:alan_russell@hp.com)



P.S. For latest snow conditions, lift ticket prices, times, camera shots of the mountain.....etc... take a look at the Bogus Website at:  
<http://bogusbasin.com>

## January 8th Recap: Bio-mechanics Distinguished Lecture



Karen Warden, a consulting specialist in spinal bio-mechanics gave a enlightening slide show of how mechanical engineering is helping doctors design replacements for every joint in the body. Components made from stainless steel and UHMW are designed by determining the loads using a free body diagrams. Braces to correct the curvature of the spine were the most impressive. Materials must be bio-compatible and ergonomically designed. Karen brought samples of replacement joints,

which displayed the complexity of the different designs required for each application.

Using the University of Idaho's compressed video system, this program was viewed in four locations, Boise, the Idaho section in Idaho Falls, and the Inland Empire section in Moscow and Coeur d' Alene.



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## ***2nd Computer-Integrated Design and Manufacturing Conference***

**Date:** Tuesday 4/9/2002  
**Time:** 7:45 AM  
**Location:** Student Union, Boise State University

Manufacturers and entrepreneurs in Idaho are embracing the latest technologies in new product development. The 2nd Computer-Integrated Design and Manufacturing Conference at Boise State University is an opportunity to find out more about these new technologies and how local companies are benefiting from them. The program includes:

- A panel of manufacturers discussing their experiences with solid modeling/rapid prototyping technology in an EDA-funded pilot project
- An update on computer-integrated design technologies from leading Idaho high tech companies
- A presentation from one of the United States' leading consultants in accelerated product development – Preston Smith
- Exhibits by rapid prototyping equipment manufacturers, computer-aided design software companies, and rapid prototyping service bureaus

The Conference is sponsored by the Economic Development Administration, Boise State University and TechHelp – Idaho's manufacturing extension center.

The EDA and BSU recently funded a major solid modeling/rapid prototyping initiative in Idaho by establishing a rapid prototyping facility at Boise State University and supporting a pilot project to increase use of solid modeling and rapid prototyping throughout the state.

**Registration Information:** On Line Registration: [www.techhelp.org](http://www.techhelp.org)

Sharon Botti 208-426-3767, or 1-877-426-3797 [sbotti@boisestate.edu](mailto:sbotti@boisestate.edu)

## ***Treasure Valley Section ASME 2000-2001 Remaining Tours***

The following lists the remaining 2001-2002 lineup of tours and events for our Treasure Valley Section of ASME. Similar to last year, we will continue to have the meeting nights on the 2<sup>nd</sup> Tuesday of every month. We welcome members and non-members to attend. This list will be updated frequently, so please watch our web site at <http://www.asme.org/sections/tvidaho> as details are confirmed and filled in for later events.

<b>Date</b>	<b>Time</b>	<b>Event</b>	<b>Location</b>	<b>Contact</b>
2/12	6PM	Ski Night/Tour of Snowmaking/Lifts at Bogus Basin	Bogus Basin Ski Resort, Boise ID	Alan Russell, 396-4439, <a href="mailto:alan_russell@hp.com">alan_russell@hp.com</a>
3/12	6PM	Professional Development Short Course	U. of Idaho, Boise Campus	Larry Stauffer
4/9	6PM	U of I Combustion Research - French-Fry Oil Fuel Van	U. of Idaho, Boise Campus	Judi Steciak
5/14	6PM	BarDenay/Harrison Hollow Tour	BarDenay, Boise, ID	Alan Russell, 396-4439, <a href="mailto:alan_russell@hp.com">alan_russell@hp.com</a>

## ***BSU FE Review Class Schedule: Spring 2002***

Boise State is offering an FE review class this Spring. Classes begin Monday, February 4th. We will be covering the format of the exam, sample questions and general topics. Classes will be held Monday and Thursday nights from 7-9 p.m., and will be held in the Boise State Engineering Buildings. Please see the following list for a schedule of topics, rooms and professors.

For more information, please contact Justin Scremin at [bsu\\_ehs@hotmail.com](mailto:bsu_ehs@hotmail.com) , or Holly at 426-5635.

**Monday Classes held in: ET 103, 7-9 P.M.**

**Thursday Classes held in: MEC 114 7-9 P.M.**

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|-----|-----------------------|--|
| 1.  | Monday, February 4    | The FE exam -Amazing facts, helpful strategies, and entertaining stories! (Dr. Joe Guarino and All?) |
| 2.  | Thursday, February 7  | Computers and Statistics (Dr. Joe Hartman)   |
| 3.  | Monday, February 11   | Statics (Colonel Gordon Vining)  |
| 4.  | Thursday, February 13 | Dynamics (Dr. David Small)   |
| 5.  | Thursday, February 21 | Mechanics of Materials<br>(Dr. Steven Tennyson)  |
| 6.  | Monday, February 25   | Chemistry (Dr. George Murgel)  |
| 7.  | Thursday, February 28 | Materials Science/Structure of Matter<br>(Dr. Amy Moll)  |
| 8.  | Monday, March 4       | Engineering Economy and Ethics<br>(Dr. Mandar Khanal)  |
| 9.  | Thursday, March 7     | Thermodynamics (Dr. James Ferguson)  |
| 10. | Monday, March 11      | Electric Circuits (Prof. Said Ahmed-Zaid)  |
| 11. | Thursday, March 14    | Fluid Mechanics (Dr. Paul Dawson)  |
| 12. | Monday, March 18      | Mathematics (Dr. Joe Guarino)  |
| 13. | Thursday, March 21    | Group Study Sessions   |
| 14. | Monday, April 1       | Group Study Sessions   |
| 15. | Thursday, April 4     | Group Study Sessions   |
| 16. | April 5-April 19      | Relax!   |
| 17. | April 20              | FE Exam Victory Day!   |

### ***Free Demo PE Exam Review Online Live***

Go to - <http://www.asme.org/education/disted/peonlinelive.htm>

PE Review Online Live has been developed by ASME and Fairfield University to help you prepare for this rigorous exam. This online course allows you to talk to the instructors in real time-to get the answers you need to pass the exam. It has most of the advantages of a classroom course with the convenience of study from home, office or on the road, plus you can play the classes back. All the interaction, all the visual displays for all the completed classes are available for your review in the class archive.

To keep your preparation on track, there is an integral Time Line of Study, a recommended Review Manual with selected readings and problems and practice tests at the end of each class session.

Registration for PE Review Online Live has started. There are a limited number of seats so contact us today.

The classes start on Tuesday, January 22, 2002 and run for ten weeks, until March 12. The class runs from 7PM-8:30PM EST.



PE Review Online Sessions:

- January 22- Introduction
- January 29- Stress Analysis and Structure Deformation
- February 5- Dynamic Systems and Kinematics
- February 12-Machine Design
- February 19- Power Cycles and Heat Transfer Analysis
- February 26- Hydraulic and Pneumatic Systems
- March 5- Power Plant Systems
- March 12- HVAC

Cost for this program is \$645.00 (list)/\$625.00(ASME member)

For more information go to <http://www.asme.org/education/disted/peonlinelive.htm>  
Or contact Thomas Kuehl at [kuehlt@asme.org](mailto:kuehlt@asme.org) or 212-591-8013

### ***2002 National Engineers Week is February 17-23***

Sign up now for the **Engineers Week Banquet** to be held on Friday, February 15, at the Crystal Ballroom at 802 W. Bannock St., Suite 202. Governor Dirk Kempthorne will be the keynote speaker. Cost is \$20 per person or \$10 for students, prepaid. Cost at the door will be \$25. Food is your choice of Italian sausage lasagna or vegetarian lasagna. Payment or reservations must be received by Friday, February 8. Reserve your place (and your choice of food) by filling out the following form and mailing it to the indicated address:

**2002 Engineers Week Banquet**

**When:** Friday, February 15, 2002 - 12 noon in the Crystal Ballroom  
**Where:** 802 W. Bannock, Suite 202, Downtown Boise

The cost for the luncheon is \$20.00 per person, \$10.00 for students prepaid. Please remit this form with payment to:

**ISPE**  
**PO Box 170239**  
**Boise, ID 83717-0239**

You may contact Julie Wall with questions, by phone at (208) 426-0636 or by e-mail at [ispe@rmci.net](mailto:ispe@rmci.net)

Payment or reservations must be received by February 8, 2002. Cost at the door will be \$25.00 per person.

Please choose one of the following entrees:

\_\_\_\_\_ Italian Sausage Lasagna \_\_\_\_\_ Vegetarian Lasagna

Name(s): \_\_\_\_\_

Company: \_\_\_\_\_

Phone: \_\_\_\_\_ Amount Remitted: \_\_\_\_\_

Lunch will be served promptly at noon, please allow yourself time to find parking. There are two garages on the corner of 9th St. & Bannock and two garages on Main St. between Capitol & 8th St. 50% of the cost will be refunded if reservations are cancelled by 2/8/02.