

Michigan PTTC Satellite at the

**Michigan Geological Repository for Research and Education,
Geosciences Department, Western Michigan University
and the**



MICHIGAN OIL AND GAS ASSOCIATION

Jointly present

Computer Mapping for Petroleum Exploration

November 5, 2009, 8:30 to 4:00pm

At the Soaring Eagle Inn (formerly the Holiday Inn), Mt. Pleasant, Michigan

Geologists, engineers, geophysicists, and geotechs who want to improve their ability to make realistic maps for petroleum exploration and development will want to come to this workshop.

The presentation and workbook materials will give you a readily understandable and detailed approach to subsurface mapping for petroleum exploration using a computer. You'll also learn why the automatic program settings in a typical computer mapping program will generate a mediocre map. You don't need to bring a computer.

Please come to

- Review the basics of mapping the subsurface using a computer
- Understand how changing your assumptions and algorithms will change the maps
- See how trend surface analysis can be used to enhance subtle features
- Learn different methods to improve your skills in finding and selling prospects

Workshop Elements include

- Introduction to Geographic Information Systems (GIS)
- Gridding algorithms (What works best?)
- Quick look evaluation techniques
- Using slope mapping to find faults
- Trend surface analysis for finding leads
- Map projections and how they influence your mapping
- Regional play assessment
- Edge effect and how to avoid it
- Methods of data display
- Conformable mapping
- 3D modeling

Schedule:

8:30-9:00—Registration, hot breakfast, networking

9:00-10:30—Presentation by Hannes Leearu. Hannes has a BS degree in geology from the State University of New York at Fredonia, an MS from Syracuse University, and a PhD from the University of Illinois. He has worked as a petroleum geologist with Getty Oil Company and Union Pacific Resources in Houston, Texas. He has been involved in exploration and development projects in the East Texas and West Texas basins, and the Hugoton Embayment of Kansas. Hannes has been a petroleum geologist at the Illinois State Geological Survey for over 20 years. While at the ISGS, he has published more than 60 articles, workshop notes, and state survey publications and has also been an author or coauthor on more than 50 abstracts and contract reports.

10:30-11:00—Break

11:00-12:00—Hannes continues

12:00-1:00—Hot Buffet Lunch

1:00-2:15—Hannes continues

2:15-2:30—Stretch

2:30-4:00—Hannes concludes

Workshop fee: For early registrations, paid by October 26, it's \$139. After that, it's \$169. That includes breakfast, lunch, refreshments, and your workbook.

Sorry, we can't "save" seats without payment.

Cancellations: We'll refund in full for cancellations received by October 26. After that, we'll refund if a paid participant takes your place.

For engineers and others who need verification of PDH hours: At the end of the workshop, you will get a certificate with a printed schedule showing to 6 PDH credits.

Location: Soaring Eagle Inn (formerly the Holiday Inn), 5665 E. Pickard Road, Mt. Pleasant, MI 48858. For rooms, call (800) 292-8891, and ask for PTTC rates. Maps at

<http://www.hiresort.com/M-Maps.htm>

To register with a credit card by phone, please call Kathy Wright at (269) 387-5486 or Linda Harrison at (269) 387-8633. To register by e-mail, contact linda.harrison@wmich.edu.

To register by fax, please use the form on the next page. Our FAX number is: (269) 387-5513.

The Workshop Registration form is on the NEXT PAGE.

Workshop Registration Form

Computer Mapping for Petroleum Exploration

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NAME _____ (For your name tag)

Second registrant _____ (For name tag)

COMPANY _____

STREET OR MAILING ADDRESS _____

CITY _____ STATE _____ ZIP _____

PHONE _____ E-MAIL _____
(Please print e-mail)

Engineers: Do you need a PDH certificate? _____

_____ Reserve a booth

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How are you paying? (Please check one payment type)

_____ **By Credit Card:** (please circle one card type) **Visa** **MasterCard ***

Card No. _____ Exp. Date _____

*Sorry, we can't take Discover or American Express.

PLEASE NOTE: Your credit card will show the charge was made by Western Michigan University.

_____ **By check**—made payable to "WMU Geosciences Department" and mail it to:
Workshop--Harrison
Geosciences Department
Western Michigan University
Kalamazoo, MI 49008-5241