

The Sonoma County Chapter of the CLSA Presents

"DOWN TO EARTH"

*A seminar and workshop on Datums & Reference Systems
with Michael McGee and Marti Ikehara*

*March 2, 2012
8:30 am – 4:30 pm*

*Santa Rosa Junior
College
Doyle Library
Room 4246
1501 Mendocino Ave.
Santa Rosa, CA
95401*

*There is a \$4 parking fee to park at
all on-campus parking facilities.*

Seminar

Presenters:

Michael R. McGee

McGee Surveying Consulting

Marti Ikehara

State Geodetic Advisor

National Geodetic Survey

Make Checks Payable to:

**Sonoma County
Chapter, CLSA**

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Santa Rosa, CA 95401
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An informal workshop that invites individual questions and group discussions, utilizing presentations and interactive dialogue to build on user's present experience. The process is intended to work through those "gray" areas and develop a better understanding of datums and reference systems which will result in better solutions and successful GPS projects

Topics

- Spatial Systems
- Geoid Models/Modeling
- Reference Systems
- Survey Reports
- New Geodetic Reference Frame IGS08
- Development of GEOID12 gravity model
- Introduction to RTN Validation initiative
- Demonstration of NGS software and online tools

Schedule

- 8:00-8:30 am check-in
- 8:30 am-12:00 pm Morning session with Michael McGee
- 12:00-1:00 pm Buffet Lunch
- 1:00 pm-4:30 pm Afternoon session with Marti Ikehara

Registration Prices

- CLSA Member: \$75 before February 27, 2012
- Non-member & walk-ins: \$100

***Net profits to benefit the Sonoma County Chapter's SRJC Surveying
Technology Program Scholarship Fund!***

Please sign up by February 27, 2012 Seating is limited!

Name: _____

Firm or Agency: _____

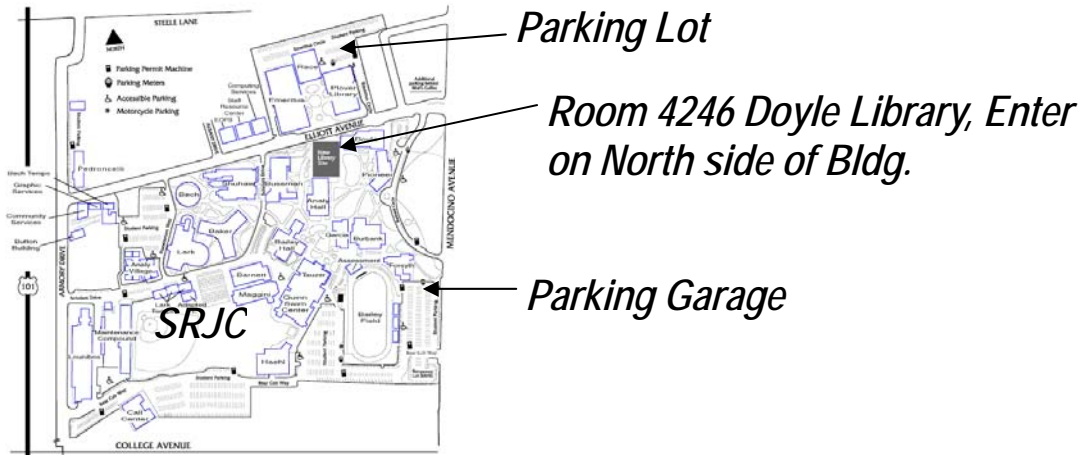
Address: _____

City/State/Zip: _____

(P) _____ (F) _____

E-mail: _____

Price includes seminar, handouts, certificate, refreshments, buffet lunch & 6 pdu's!



Michael McGee invites individual questions and group discussions, utilizing presentations and interactive dialogue to build on user's present experience:

Spatial Systems

- Datum
 - Horizontal/3D: NAD27, NAD83, WGS84, ITRF
 - Vertical: NAVD88, NGVD29, MLLW
- Adjustments
 - NAD83: 1984, 1991.35, 19XX's, 2007.00, 2010.00, 2011.00

Geoid Models/Modeling

- Geoid 09, EGM2008

Reference Systems

- NSRS, HPGN, IGS
- CORS
- NGS, CA CGPS Networks
- Others Networks
- Relating different Datums
- Coordinate Systems: SPC, UTM
- Public Resources Code (CA)
- Survey Reports
 - Content

Marti will address:

Recent and near-future changes in the geodetic datums and other developments being done by NGS.

- Discuss how the new geodetic reference frame--IGS08-- was realized,
- Detail the process for the nationwide adjustment of ~80,000 passive stations,
- Explain the development of the upcoming GEOID12 gravity model
- Introduce the RTN Validation initiative.

Looking to the far future (10 years), you will learn about the developments that have been initiated to:

- totally revamp the horizontal and vertical datums that define the NSRS,
- obtain airborne gravity measurements to develop a geoid model accurate to 1 cm,
- collect and analyze data for a Gravity Slope Validation Survey.

There will be demonstrations of NGS software and online tools:

- DSWorld for mapping NGS control locations in Google Earth,
- DSWorld for submitting database corrections and updates (recovery notes),
- VDATUM for relating tidal datums to geodetic datums
- HTDP for getting different epoch coordinates,
- Translev and WinDESC for submitting Reset BM data.