

NORTHERN CALIFORNIA GEOLOGICAL SOCIETY



Pt. LOBOS TO Pt. REYES: EVIDENCE OF ~ 180 Km OFFSET OF THE SAN GREGORIO & NORTHERN SAN ANDREAS FAULT

Saturday - Sunday May 10-11, 2008

Leader: Kathleen Burnham

Back by popular demand: NCGS member Kathleen Burnham will lead another two-day field trip to Pt. Lobos and Pt. Reyes. Roughly 50 million years ago, the granitic rocks and conglomeratic turbidites of Point Lobos and Point Reyes were parts of a single deep submarine canyon system. During the past 27 million years, they've been separated approximately 180 km by dextral slip of the San Gregorio and northern San Andreas faults. Similarity of these rocks has been noted as far back as 1899, but Kathleen's research establishes details which nail down the correlation. Her paleogeographic reconstruction has proved predictive: since its first introduction, other geologists have proposed five geologic and geophysical correlations which fit her model. Point Reyes and Point Lobos are stunningly beautiful, and may be the only pair of localities on earth in which evidence of a large lateral offset is preserved in public parks at both ends.

On day one, participants will examine granitic rocks, conglomerate, and trace fossils at Point Lobos State Park, near Monterey, and then drive ~180 km along the San Gregorio and northern San Andreas faults to Olema, north of San Francisco. On day two, we will examine correlative rocks at Point Reyes National Seashore, as well as a 16 ft. (5m) offset of the 1906 San Francisco earthquake. This will be an interactive, rather than lecture-style field trip.

Participants are requested to refrain from the use of aftershave, hand lotion, hair tonic, cologne, or other fragranced personal products, as the field trip leader is disabled by chemical sensitivity. THIS FIELD TRIP WILL BE LIMITED TO 27 PEOPLE.

***** Field Trip Logistics *****

Time & Departure: 8:30 am May 10 from Point Lobos

Cost: \$125/person

Further details will be announced later.

*****REGISTRATION FORM (Pt. Lobos – Pt. Reyes Field Trip) *****

Name: _____ E-mail: _____

Address: _____ Phone (day): _____ Phone (evening): _____

Lunch: Regular: _____ Vegetarian: _____ (Please check one) Check Amount: _____

Please mail a check made out to NCGS to: Rob Nelson
269 College View Drive
Rohnert Park, CA 94928

Questions: e-mail: Rob Nelson at rlngeology@sbcglobal.net or phone: 707-548-3268

A report of the 2006 trip can be found at www.ncalgeol社.org/