

The American Statistical Association

San Francisco Bay Area Chapter

Since 1928

CALENDAR

OCT 24, 1990 WEDNESDAY James Deiterick

"Probabilities of the Next Major Bay Area Earthquakes"

NOV 1, 1990 THURSDAY

Joel Swartz :

"Mathematical Models of Smoking and Lung Cancer"

DEC 13,1990 THURSDAY

Panel Discussion and Holiday Party

"Bay Area Statistics in the 1990s: How Are We Doing,

Where Are We Going?"

JOINT GENERAL APPLICATIONS PROGRAM

SPEAKER: James Deitrick, Ph.D,

U.S. Geological Survey

TOPIC:

"Probabilities of the Next Major Bay ARea Earthquakes"

A recent news release from the U.S. Geological Survey indicated that the probabilities of earthquakes measuring 7.0 or greater on the Richter scale from the Hayward and San Andreas Faults were greater than they were once believed to be. Dr. Deitrick was the chairman of the committee that calculated those probabilities.

Dr. Deitrick will explain to us how those probabilities were calculated, what data was used, and other interesting facts about this important problem.

DATE:

Oct 24, 1990 (Wednesday)

3:30 - 4:00 Coffee

4:00

Presentation

PLACE:

California State University, Hayward

North Science Building

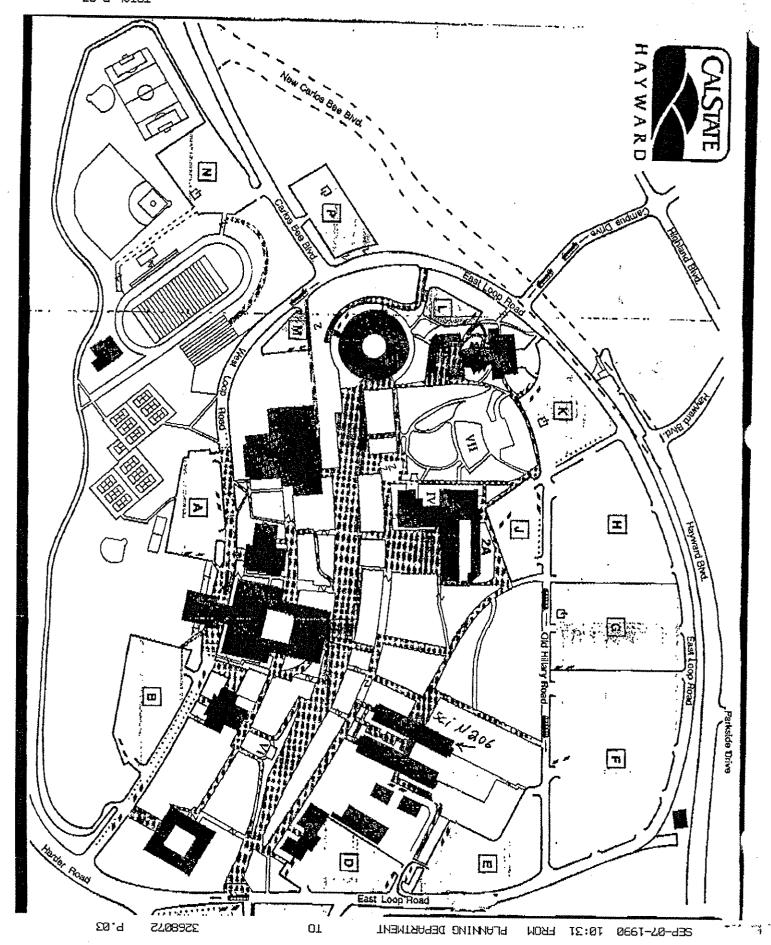
Room 206

DIRECTIONS: From I-880 in Hayward, take the Jackson Street exit east ant turn right onto Harder Rd. Continue up Harder to the Campus and park in pay lot G. From the Peninsula, take the San Mateo-Hayward bridge into Hayward. This highway becomes Jackson Street. Turn right onto Harder Rd. continuing up to the campus.

NOTE: The pay lot costs \$1.50 and accepts quarters only.

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BIOSTATISTICS PROGRAM

SPEAKER: Joel Swartz, Ph.D.

State of California Department of Health Services

TOPIC: "Mathematical Models of Smoking and Lung Cancer"

The purpose of this study is to use a mathematical model to predict the time course of smoking induced lung cancer. Smoking among white men in the U.S. peaked in 1960, but lung cancer rates have continued to increase. Since the relative risk for lung cancer drops within five years of smoking cessation, it is possible that smoking induced lung cancer began to decline as early as the 1970s.

The model consists of two parts. The first part uses simulation to reconstruct the smoking history of the population by age and birth cohort using data from the NCHS Health Interview Study on prevalence. This simulation is necessary because lung cancer risk for an individual depends upon the age of starting smoking and the age of stopping smoking. In the second part, the risks of lung cancer for individuals with given smoking histories were calculated using Whittemore's modification of the multistage model.

The model predicted a 12% decline in smoking induced lung cancer for white males over the period 1970 to 1985. By contrast, the total lung cancer rate for this group increased by 26% over this period. The predictions of the model were shown to be robust to a wide range of relaxations of assumptions.

DATE: Nov 1, 1990 (Thursday)

3:30 - 4:00 Coffee

4:00 Presentation

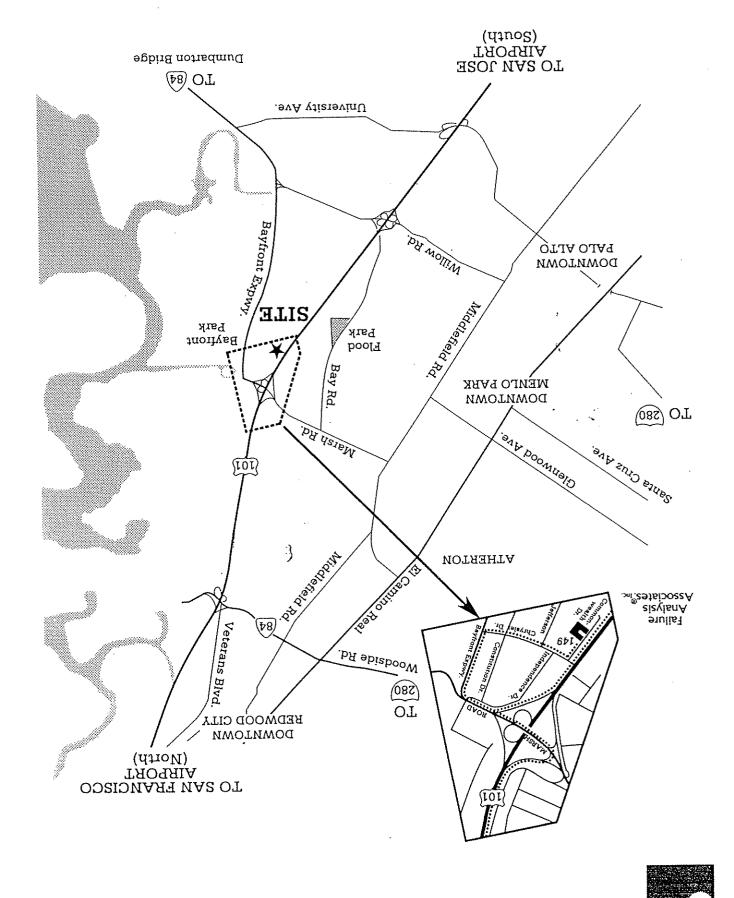
PLACE: Failure Analysis Associates

149 Commonwealth Drive

Menlo Park

DIRECTIONS: From I-10% in Menlo Park take the Willow Road exit east. Turn left at the Bayfront Expressway and left at Chrysler, and left again at Commonwealth. Visitors parking is in the front of the building. Go in the main entrance. The receptionist will give you directions to the lecture. From the East Bay, take the Dumbarton Bridge. When you get to Willow Road, stay to the right; you will be on the Bayfront Expressway. Chrysler is the second stoplight past Willow. Turn left on Chrysler and left again on Commonwealth.

MEIGHBORHOOD AREA MAP



AMERICAN STATISTICAL ASSOCIATION 1991 WINTER CONFERENCE

STATISTICS AND THE ENVIRONMENT

New Orleans, Louisiana 🐞 January 3-5, 1991 🐞 Hyatt Regency Hotel

FOCUS

Practical Applications of Theory and Methods Used in Environmental Statistics

HIGHLIGHTS

Featured Speakers 🏶 Invited and Contributed Papers 🏶 Poster Sessions 🏶 Tutorials

TOPICS

Global Warming 🏶 Spatial Statistics 🏶 Superfund Site Characterization Environmental Indicators 🏶 Chemometrics 🗳 Risk Analysis Health Effects . Graphical Assessment of Network Trends Fisheries and Wildlife 🏶 Water Resources 🏶 Ecology

For More Information Contact

American Statistical Association (703) 684-1221 Richard O. Gilbert (Program Chair) (509) 375-2979



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the address listed below.

Changes of address should be sent to the chapter treasurer, Lenny Ayyangar at

ADDRESS CHANGES/DUES:

2F Bay Area Chapter Business

MA O1720 (508) 264-0627. Stochastic Processes. Contact: Yuri Koshevnik, 411 Great Road, Apt 15, Acton, Estimation), Applied Statistics and Data Analysis, Applied Probability or or teaching position in Mathematical Statistics (primarily Wonparametric Ph.D. in Probability and Statistics from University of Moscow seeks research **APPLICAUTS**