



The American Statistical Association

San Francisco Bay Area Chapter

Since 1928

June, 1996

Annual Business Meeting and Election of Chapter Officers

"Carcinogenic Risk Assessment for Chromium"

William Butler

Environmental Risk Analysis, Inc., San Mateo, CA

Hexavalent chromium (CR⁺⁶) is one of the relatively few agents for which health research on humans is available to justify the USEPA's classification of "known human carcinogen." Exposure to CR⁺⁶ continues today in occupational settings (chrome production, stainless steel production, welding, electroplating, tanning) as well as in the general environment due primarily to current or historical waste streams from these industries. The USEPA and the Occupational Safety and Health Administration (OSHA) are currently preparing risk assessment documents and, possibly, new rulemaking. In this talk, I will review the quantitative and methodological features of the occupational epidemiologic studies that are the basis for the current standards and compare them with the results of the more recent studies. I will outline the quantitative steps in the rulemaking process starting with the interpretation of the epidemiologic data, moving through the calculation of "carcinogenic potency factors," and ending with the determination of a regulatory standard. The stochastic and nonstochastic sources of uncertainty in each step of this process are emphasized, including the limitations due to incomplete information on the intensity of historical CR⁺⁶ exposures in the epidemiologic studies. The difference in exposure scenarios for the setting of occupational and environmental standards will be discussed in terms of latency and "stages" of the current models for carcinogenicity (i.e., 8 hours a day, 5 days a week for 45 years starting at age 20 years vs. 24 hours a day, 7 days a week for 70 years starting at birth).

Date: Tuesday, June 25, 1996

Time: 5:30 - 6:30 Talk and Business
6:30 - 8:00 Election followed by Dinner

Place: Chef Chu's Restaurant
1067 N. San Antonio Rd., Los Altos

Cost for dinner is \$20/person. Please call Mike Lock (and leave a message) at (408) 954-2583 by June 21 for reservations. See adjacent column for more details on the dinner and see other side for directions.

June Meeting Features Election, Chinese Banquet

Chapter officers for the 1996-1997 academic year will be elected at the business meeting on June 25th. The nominating committee has proposed the following slate of officers for the upcoming year:

President Elect:

Michael Lock
Becton Dickinson

Vice President Biostatistics

Ying Lu
U.C. San Francisco

Treasurer:

Jim Lenihan
William M. Mercer, Inc.

Secretary:

Ann Kalinowski
Failure Analysis

The committee was still considering nominations for the office of Vice-President of General Applications as of press time. President Elect Kathleen Lamborn will succeed Loren Schoof as chapter president.

For attendees who choose to stay for dinner, a Chinese banquet will be served following the election. The banquet features gourmet dishes from many regions of China as interpreted by one of the best known chefs in the Bay Area. The menu includes Hot & Sour Soup, Boneless Tea-Smoked Duck, Velvet Prawns with Pine Nuts, Orange Blossom Ribs in a Clay Pot, Braised Black Mushrooms & Snow Peas, Crispy Flounder in Pepper-Salt and Barbecue Pork Fried Rice wrapped in Lotus Leaves. Cost for dinner is \$20 per person and does not include beverages. Please call Mike Lock at (408) 954-2583 to make dinner reservations by June 21.

PRESIDENT
Loren Schoof
(510) 823-9020

PRESIDENT-ELECT
Kathleen Lamborn
(415) 476-8863

VICE-PRESIDENT
GENERAL APPLICATIONS PROGRAMS
Ann Kalinowski
(415) 688-7203

VICE-PRESIDENT
BIostatistical PROGRAMS
Ying Lu
(415) 502-4596

TREASURER
Jim Lenihan
(415) 393-5213

SECRETARY
Michael Lock
(408) 954-2583

Job Opportunities

Biostatistical Analyst

California Public Health Foundation,
Berkeley

Nonprofit public health research organization seeks an individual for a part-time (20 hrs/wk) ten-month position at the Center for Research on Women's and Children's Health. Duties include conducting analyses for studies on reproductive health, chronic disease in women, and infant and child health. The individual will participate in study design, analysis, planning, computer programming, and summarizing data runs. The individual may also be involved in report writing of statistical and analytical methods.

Requires Master's degree in Biostatistics or Statistics and at least two years of experience in the application of biostatistical or related data-analytical methods to public health problems. Working knowledge of SAS and other statistical package programs is required. Salary \$16.60/hour with excellent benefits package.

Please send resume by June 21, 1996 to California Public Health Foundation; 2001 Addison Street, Suite 210; Department 25; Berkeley, CA 94704.

Keep checking the Chapter's World Wide Web site for more job listings all summer long: <http://www.sfasa.org>.

SAS Programmers

Multiple Bay Area Locations

Qualifications: BS degree or equivalent in computer science, statistics or related discipline with varying (0-5 years) experience in daily operations of SAS data manipulation and reporting. Experience in SAS in a pharmaceutical industry setting is preferred. Also desirable is experience in Windows-based applications and experience with additional software packages.

Summary of Primary Responsibilities: Use SAS or other database management system to facilitate the data update, processing, review, and analysis of clinical trials data. Requires strong communication skills, both oral and written.

Contact Jay Oestrich, Williams Recruiting, (206) 869-7775, FAX: (206) 869-1849.

Joining the Bay Area ASA Chapter

If you are not currently a member of the local chapter of the ASA and would like to join, send a note with your name and address to Jim Lenihan; 15 Moonlight Ct.; So. San Francisco, CA 94080. Please enclose a check for one year's membership, \$9, payable to "ASA, Bay Area Chapter". Student membership dues are \$3 per year. You may also join the local chapter when paying dues to the national organization.

Directions to Chef Chu's Restaurant in Los Altos

From the Peninsula, San Francisco or the North Bay:

- Take US 101 south to Palo Alto/Mountain View.
- Exit at San Antonio Rd. Turn south (a right turn) on San Antonio.
- Continue to the corner of San Antonio and El Camino.

From San Jose and the South Bay:

- Take US 101 north to Mountain View.
- Exit at San Antonio Rd. Turn south (a left turn) on San Antonio.
- Continue to the corner of San Antonio and El Camino.

From Interstate 280:

- Exit at El Monte Rd. in Los Altos. Turn east on El Monte.
- Continue on El Monte until it ends at El Camino.
- Turn left on El Camino and continue until its intersection with San Antonio Rd.
- Turn left on San Antonio Rd.

Chef Chu's is located at the intersection of El Camino and San Antonio Rd. at 1067 San Antonio in Los Altos. Ample free parking is available behind the restaurant.



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American Statistical Association
1096 Karen Way
Mountain View, CA 94040