

U.S. Environmental Protection Agency Characterizing Chemicals in Commerce December 13, 2006 Austin, Texas

Michael P. Wilson, Ph.D, MPH Center for Occupational and Environmental Health University of California, Berkeley mpwilson@berkeley.edu





UC Center for Occupational and Environmental Health Est. 1978 (AB 3414) Berkeley, Davis, San Francisco (northern California).

- Toxicology
- Epidemiology
- Industrial hygiene
- Environmental health policy
- Occupational and environmental medicine
- Occupational health nursing
- Ergonomics
- Labor Occupational Health Program (LOHP)
- Continuing professional education



<u>UC Report:</u> Green Chemistry in California: A Framework for Leadership in Chemical Policy and Innovation.

- •Assesses problems and opportunities in chemicals policy
- Proposes broad policy goals

Commissioned January 2004 by:

- Byron Sher (Chair, SEQC)
- John Laird (Chair, ACESTM)

Released to Legislature March 14, 2006 to:

- Joseph Simitian (Chair, SEQC)
- Ira Ruskin (Chair, ACESTM)

<u>Download:</u> http://coeh.berkeley.edu/news/06_wilson_policy.htm

John R. Balmes, MD School of Medicine, UC San Francisco

Carl F. Cranor, PhD Department of Philosophy, UC Riverside

S. Katharine Hammond, PhD School of Public Health, UC Berkeley

Bill E. Kastenberg, PhD College of Engineering, UC Berkeley

Ann Keller, PhD School of Public Health, UC Berkeley

Amy D. Kyle, PhD, MPH School of Public Health, UC Berkeley

Geoff Lomax, DrPH Department of Health Services

Report Advisory Committee

Timothy Malloy, JD School of Law, UC Los Angeles

Thomas E. McKone, PhD Lawrence Berkeley National Laboratory

Dara O'Rourke, PhD College of Natural Resources, UC Berkeley

Julia Quint, PhD Department of Health Services

Christine Rosen, PhD Haas School of Business, UC Berkeley

David J. Vogel, PhD Haas School of Business, UC Berkeley Report's findings similar to those of:

•	National Academy of Sciences	1984
•	U.S. General Accounting Office	1994
•	Congressional Office of Technology Assessment	1995
•	Environmental Defense	1997
•	U.S. EPA	1998
•	former EPA officials	2002
•	RAND Science and Technology Institute	2003
•	U.S. Government Accountability Office	2005
•	National Academy of Sciences	2005

California's expected population growth, 1990-2050



The University of California, Berkeley

Source: California Dept of Finance, CA pop. trends, 1990 – 2050

Global chemical production is doubling every 25-years.





UC report: A systems approach is needed to produce enduring changes in the chemical sector. Example: per capita electricity use.



Courtesy John Wilson, CA Energy Commission



The design of chemical products and processes to reduce and/or eliminate substances hazardous to human health and the environment.

12 principles proposed by Anastas & Warner.

Anastas, P.T. and J. Warner. 1999. Green Chemistry Theory and Practice



Thank you!





