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September 14, 2020

Chair Kelly Long and Members of the Ventura County Board of Supervisors  
Hall of Administration  
800 South Victoria Avenue  
Ventura, California 93009

Re: September 15, 2020 Agenda Item No. 41: Certification of the 2040 General Plan  
Final Environmental Impact Report and Adoption of the 2040 General Plan (Planning  
Division Case No. PL17-0141)

Honorable Members of the Board:

On behalf of California Resources Corporation, we appreciate the opportunity to submit the following report regarding Agenda Item 41, continued from September 1, 2020 Items 34, 35 and 39.

The General Plan Update that the Board is considering will have far reaching impacts on this county's economic health and wellbeing. A number of public comments point to two recent health studies on impacts to birth outcomes from oil and gas operations, in support of the setback requirements proposed in the General Plan Update, and suggest that the current 1,500 foot setback proposed in Mitigation Measure PR-1 should be increased to 2,500 feet,. However, ***neither study provides any reliable evidence that abnormal birth outcomes are caused by exposure to oil and gas drilling.***

Dr. Garabrant reviewed the recent studies by Tran, et al. and Gonzales, et al. referred to in public comments regarding the General Plan Update. Dr. Garabrant is an Emeritus Professor of Epidemiology and Occupational Medicine at the University of Michigan School of Public Health, and Emeritus Associate Professor of Medicine at the University of Michigan School of Medicine. He has extensive experience in both the field of medicine and environmental science, and has published numerous peer-reviewed articles on environmental exposure and human health. Attached as Exhibit 1 is a report from Dr. David Garabrant that highlights the extreme flaws and problematic assumptions contained within both studies.

***These studies defy common sense and should not serve as support for a decision that will put Ventura County citizens out of work and local companies out of business.***

Sincerely,



Matt Wickersham

Enclosure

Alston & Bird LLP

[www.alston.com](http://www.alston.com)

Atlanta | Beijing | Brussels | Charlotte | Dallas | London | Los Angeles | New York | Raleigh | San Francisco | Silicon Valley | Washington, D.C.

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September 15, 2020 Agenda Item No. 41: Certification of the 2040 General Plan Final  
Environmental Impact Report and Adoption of the 2040 General Plan (Planning Division  
Case No. PL17-0141)  
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cc: Jeffrey Dintzer, Alston & Bird  
Adam Smith, California Resources Corporation  
Bruce Carter, California Resources Corporation

# **EXHIBIT 1**

**[California Resources Corporation Sept. 14, 2020 Comment Letter]**

**DAVID H. GARABRANT, P.L.L.C.**

3063 GEDDES AVENUE  
ANN ARBOR, MICHIGAN 48104

734-646-2692

DAVID H. GARABRANT, M.D., M.P.H.

Mr. Jeffrey Dintzer  
Alston & Bird, LLC  
333 S. Hope Street, Suite 1600  
Los Angeles, CA 90071

September 12, 2020

Dear Mr. Dintzer,

At your request, I have reviewed the recent publications regarding residential proximity to oil and gas development (OGD) and birth outcomes in California:

Gonzalez DJX, Sherris AR, Yang W, Stevenson DK, Padula AM, Baiocchi M, et al. Oil and gas production and spontaneous preterm birth in the San Joaquin Valley, CA: A case-control study. *Environ Epidemiol.* 2020;4(4):e099. Epub 2020/08/25.

Tran KV, Casey JA, Cushing LJ, Morello-Frosch R. Residential Proximity to Oil and Gas Development and Birth Outcomes in California: A Retrospective Cohort Study of 2006-2015 Births. *Environ Health Perspect.* 2020;128(6):67001. Epub 2020/06/04.

**My Qualifications**

I am Emeritus Professor of Epidemiology and Occupational Medicine at the University of Michigan School of Public Health, and Emeritus Associate Professor of Medicine at the University of Michigan School of Medicine. I am board certified in occupational and environmental medicine and internal medicine. I am also qualified as a specialist in the field of epidemiology, especially as it relates to the study of diseases related to exposures to chemical agents. While I have been on the faculty of the University of Michigan, I have served as Director of Occupational Medicine (1988-94), head of the Occupational Health Program (1992-95), Director of the Center for Occupational Health and Safety Engineering (1990-95), Director of the Occupational & Environmental Epidemiology program (2001-2007), and Founding Director of the Risk Science Center (2003-2017). My research since 1980 has focused on the long-term health effects of chemicals on humans and I have published over 360 research articles, book chapters, and abstracts related to this area. My full curriculum vitae is attached.

**Overview of Studies of the Relationship Between Oil and Gas Drilling and Birth Outcomes**

The central issue in looking for associations between oil and gas drilling (OGD) and birth outcomes is assessing the temporal relationship between the exposure of the pregnant woman to emissions from OGD and the risk of an abnormal birth outcome. The birth outcomes of interest in these studies (term birth weight [tBW], low birth weight [LBW], preterm birth [PTB], and small for gestational age [SGA]) are defined in part by the gestational age of the fetus at the time

the birth outcome is observed <sup>1</sup>. In order for an association between an OGD-related exposure and an abnormal birth outcome to be interpretable with respect to causation, the chemical agent must be known to be capable of causing the birth outcome at the concentrations observed and the exposure must occur during a gestational time when the fetus is susceptible to the effect.

## Exposure Assessment

In order to find reliable associations between exposure to OGD-related emissions<sup>2</sup> and abnormal birth outcomes it is essential to have accurate information on these emissions, including specific chemical and non-chemical constituents, concentration, exposure pathways (air, water, soil evaporation), and accurate temporal information on when the emissions were present at the location of the pregnant mother. In addition, since air pollutant concentrations are dependent on wind direction and distance, meteorological information (with accurate temporal information) is essential. Since exposure to water contaminants may be dependent on hydrogeological factors, hydrogeological information is essential for some emissions.

There are two approaches to assessing exposures. The first is to model exposures at receptor locations (i.e., the residential location of the pregnant woman during gestation) based on measured emissions from the OGD sites, air dispersion modeling, and hydrogeological modeling of groundwater movement and evaporation. The second is to measure the participants' exposures by personal monitoring techniques. The first approach does not account for exposures from sources other than the OGD site and is inherently limited because it cannot evaluate the participant's true exposure from all sources. While the first approach may be appropriate to

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<sup>1</sup> *Birth outcomes evaluated in Gonzalez 2020 and Tran 2020*

- Gestational age is the elapsed time between the last menstrual period and the date of interest.
- Full term birth is a pregnancy that completes 39 weeks of gestation.
- Term birth weight (tBW) is the birth weight (in grams) among pregnancies that complete  $\geq 37$  weeks of gestation.
- Low birth weight (LBW) is a birth  $< 2500$  grams (regardless of the gestational age).
- Preterm birth (PTB) is a birth occurring before 37 weeks ( $< 37$  weeks) of gestation.
- Small for gestational age (SGA) is a birth weight less than the US sex-specific 10<sup>th</sup> percentile of weight for each week of gestation.

<sup>2</sup> *The potential emissions from OGD activities include:*

- Air pollutants:
  - particulate matter (PM) with an aerodynamic diameter of  $< 2.5$   $\mu\text{m}$  (PM<sub>2.5</sub>)
  - diesel PM
  - nitrogen oxides (NO<sub>x</sub>)
  - secondary ozone formation
  - mercury
  - volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene and xylene (BTEX) from truck traffic, drilling, hydraulic fracturing, production, and flaring
- Water contaminants that can contaminate potable water via leaks and spills or evaporate:
  - gas-phase hydrocarbons
  - chemicals mixed in drilling fluids
  - naturally occurring salts, metals, and radioactive elements within shale that surface with wastewater
  - recovered oil and gas
- Noise pollution associated with well pad construction, truck traffic, drilling, pumps, flaring of gases, and other processes
- Light pollution from night-time activities

evaluate dispersion of environmental pollutants in surrounding areas, it is not appropriate to evaluate adverse health effects at the personal level because of potential exposure misclassification.

Neither of the studies at issue (Gonzalez, 2020; Tran, 2020) has adequate information on emissions from OGD sites, with reliable temporal information, to provide any reliable estimate of any study participant's exposure at any point during gestation. Moreover, neither of the studies made any measurements of any participant's personal exposure at any point during pregnancy. Thus, neither study can establish that any pregnant woman was exposed to any specific agent from OGD at any specific time during gestation. Instead of measuring exposures, both studies simply calculated the distance from each pregnant woman's residence to OGD sites and created a summary score of how many OGD sites were within a specified radius. These scores are not reliable indicators of exposure of any pregnant woman to any specific chemical or physical agent from OGD sites, nor do they account for exposures from other sources such as highways, vehicle traffic, agricultural activities, or other industrial and commercial activities. It is unknown whether these exposure scores accurately reflect true exposures.

Exposure studies that have examined the relationships among outdoor air, indoor air, and personal air show that volatile organic compounds (VOCs), metals, PM<sub>2.5</sub>, NO<sub>2</sub>, and other pollutants are often higher in personal air than in indoor air, and are often higher in indoor air than in outdoor air (Adgate, 2007; Adgate, 2002; Baxter, 2013; Bonanno, 2001; Clayton, 2002; Evans, 2000; Janssen, 1998; Rojas-Bracho, 2000; Sexton, 2004; Shrestha, 2019; Wallace, 1986; Wallace, 1989; Wallace, 1988). In addition, outdoor air concentrations are often poorly correlated with personal air concentrations. There are many reasons for these relationships. First, personal air concentrations are affected by smoking, use of household chemicals (paints, furniture polish, spot removers, waxes, window cleaner, ammonia, pesticides, etc.), cooking (VOCs, particulates, NO<sub>2</sub>), personal use of gasoline powered tools (lawnmowers, leaf blowers, edgers, etc.), occupational exposures, and other sources. Indoor air is affected by heating and air conditioning systems, ventilation rates, attached garages (gasoline vapors), wood and coal stoves (VOCs, particulates, PM<sub>2.5</sub>, NO<sub>2</sub>), indoor pets, whether windows are open or shut, the age of the dwelling, single versus multiple family dwellings, cleaning habits (sweeping, vacuuming, dusting), and other factors. Outdoor air is affected by local traffic, freeways, wildfires, wind and weather conditions, temperature, season, nearby industries, agriculture, construction, and other factors. Because of these differences, outdoor air concentrations cannot be assumed to reliably reflect any individual's personal exposure to any pollutant. The assumption in the Tran and Gonzalez studies that exposure scores based on the distances to OGD sites accurately reflects any individual's true personal exposure to any of the agents at issue is unfounded, has not been tested by any measurements, and is unlikely to be true.

Tran (Tran, 2020) counted the number of active oil and gas wells within 1 km of the study participant's address and combined this with monthly production volume (barrels of oil and oil equivalent, or BOE) to create an exposure index during each trimester of gestation. Exposure to production volume of active wells was then categorized as a) no active wells, b) 1-100 BOE/day (moderate), and c) more than 100 BOE/day (high). Tran also counted the number of inactive wells within 1 km of the participant's address and categorized exposure as a) no

inactive wells, b) one inactive well, c) 2-5 inactive wells, or d) 6 or more inactive wells. There were no assessments or measurements of any specific chemical or physical agent.

Gonzalez (Gonzalez, 2020) counted the number of wells within 10 km of the mother's residence that were in preproduction or production during each trimester of gestation, then estimated exposure to each well as the inverse of the distance squared ( $\text{exposure} = 1/\text{distance}^2$ ). These "exposures" were then summed for each trimester of each pregnancy and were categorized into exposure tertiles (tertiles 1, 2, and 3). Births without exposure in each trimester comprised a separate unexposed category (tertile 0). There were no assessments or measurements of any specific chemical or physical agent.

Neither Tran nor Gonzalez validated their exposure metrics to demonstrate that they were related to measured exposures at any residential site or, more importantly, to the actual exposures of any study participants. Both studies ignored meteorology and whether any participant's residence was upwind or downwind of any wells. Both studies ignored relevant hydrogeology and whether participants' residences were up-gradient or down-gradient from the wells. Thus, the exposure metrics used by Tran and Gonzalez reflect only their modeling assumptions and are not validated by any exposure measurements.

### **Birth Outcomes Assessment**

The birth outcomes at issue are not independent of each other, as they based on assessing only two things: the duration of gestation and the weight at birth. These measures are compared to the frequency distributions in the general population to determine whether the duration of gestation is normal (PTB); whether the birth weight is low (LBW); whether for gestations of  $\geq 37$  weeks the birth weight is low (tBW); and whether the birth weight is lower than newborns of the same gestational age (SGA). These outcomes are correlated in many ways: preterm births (PTB) have low birth weights (LBW), newborns with low term birth weight (tBW) also have low birth weight (LBW), and newborns that are small for gestational age (SGA) have low birth weights (LBW) and low term birth weights (tBW). Because the three measures derived from birth weight (LBW, tBW, SGA) are all related, it is inappropriate to report them as though they are independent measures of adverse effects.

### **Covariates and Alternate Causes of Abnormal Birth Outcomes**

Numerous factors may adversely affect birth outcomes, including maternal age, smoking, drug use, alcohol, infections during pregnancy (rubella, Zika), pharmaceuticals, malnutrition, poverty, lack of access to health care, prenatal care, maternal disease, pregnancy complications (gestational diabetes, hypertension), and genetics. Tran adjusted for individual level covariates of the infant (sex, month and year of birth) and the mother (age, race/ethnicity, educational attainment, prenatal care, and parity) and for area-level variables of urban/rural status, modeled NO<sub>2</sub> concentration, and income concentrations (derived from the census tract of residence). Gonzalez adjusted only for maternal age, race/ethnicity, educational attainment, parity, and birth year.

Thus, neither study assessed confounding due to smoking, drug use, alcohol, infections during pregnancy, pharmaceuticals, malnutrition, poverty, lack of access to health care, maternal disease, pregnancy complications, or genetics. The extent to which the observed associations

between OGD proximity and birth outcomes were biased by these potential confounders cannot be determined, and there is no reason to believe these factors did not cause spurious associations.

### **Results - Gonzalez 2020**

Gonzalez reported only one birth outcome – spontaneous preterm birth. They reported a statistically significant increased risk of preterm birth for exposure tertile 3 during the gestational weeks 28-31, only in Hispanic and non-Hispanic Black women and only in women with < 12 years of education. There was no association between preterm birth during gestational weeks 20-27 or weeks 32-36 and any category of exposure to oil wells. In sensitivity analyses that examined different categories of distance to wells, there was no association between preterm birth and wells within 3 km (eTable 13). The positive association was essentially uniform in analyses that included wells within 5, 10, and 15 km. These analyses indicated that close wells (within 3 km) were not associated with preterm births, whereas far away wells were, regardless of whether they were within 5, 10, or 15 km. The authors did not explain how distant wells could affect birth outcomes while more proximal wells did not, nor did they provide any explanation for how wells might adversely affect only Hispanic and non-Hispanic Blacks but not non-Hispanic Whites, or why the associations were seen only in births to women of low education. These paradoxical and unexplained findings raise serious questions about the reliability of the Gonzalez study.

The major weaknesses of the Gonzalez study include no measurements of exposure to any specific agent, lack of assessment of confounding by numerous important causes of birth outcomes, and unexplained inconsistencies in the relationship between the exposure metric and preterm birth.

### **Results - Tran 2020**

Tran reported statistically significant associations between well production volume and low birth weight (LBW) for moderate exposure (1-100 BOE/day) but not high exposure (more than 100 BOE/day). When participants were stratified by urban versus rural residence, there was a statistically significant positive association between LBW and high exposure in rural participants, but no positive association between LBW and high exposure in urban participants. In fact, among urban participants, there was a statistically significant inverse association (OR = 0.93, 95% CI 0.88-0.98) (Table S4) between LBW in trimester 3 and high exposure. These unexplained inconsistencies in findings for LBW argue against a causal interpretation. It is unexplained and unlikely to be true that OGD emissions cause LBW in rural births yet protect against them in urban births.

Tran reported no statistically significant positive association for preterm birth (PTB) in any trimester, at either moderate or high exposure, in either rural or urban participants. In fact, among urban participants, there was a statistically significant inverse association (OR = 0.82, 95% CI 0.77-0.88) (Table S5) between PTB in trimester 3 and high exposure. The authors did not explain how high exposure to OGD emissions might protect against PTB in urban participants, nor is this likely to be true. These results directly contradict the positive association reported by Gonzalez (described above) and the discrepancy between these two studies has no evident explanation other than that the results in Gonzalez may simply be spurious.



Tran reported statistically significant positive associations between small for gestational age (SGA) births and high exposure in rural participants, but not for moderate exposure in rural participants. Among urban participants, there were statistically significant associations between both moderate and high exposure and LBW, but the association was no stronger for high exposure than for moderate exposure. The associations seen in urban participants were quite small (odds ratios between 1.03 and 1.04) even though they were statistically significant and showed no evidence of dose-response. The associations seen in rural participants were stronger in the high exposure group and showed evidence of dose-response. The differences between the rural and urban participants were unexplained by the authors.

Tran reported no statistically significant differences in term birth weight (tBW) in either moderate or high exposure for among urban participants. Among rural participants tBW increased slightly in the moderate exposure group, then decreased significantly in the high exposure group. The differences between the rural and urban participants were unexplained by the authors.

Overall, the Tran study provided no association between OGD related exposures and the duration of gestation (PTB). Tran reported no consistent findings of adverse effects of OGD related exposures on the three measures derived from birth weight (LBW, tBW, SGA). Tran made no attempt to evaluate or explain the reasons for inconsistencies in the results for these three measures (LBW, tBW, SGA), nor did they make any attempt to determine which of these birth outcomes, if any, were significantly associated with OGD related exposures after adjusting of the other outcomes.

The statistically significant findings rarely showed evidence of increasing strength with increasing exposure (i.e., dose response) and the differences between urban and rural participants often were greater than the underlying associations. The reasons for these urban/rural differences were unexplained by the authors and they suggest that unmeasured confounders associated with urban/rural status were more strongly associated with birth outcomes than were the exposures.

## **Conclusions**

Neither the Tran nor the Gonzalez study provides any reliable evidence that abnormal birth outcomes are causally associated with exposure to oil and gas drilling. Both studies have inadequate and unvalidated estimates of exposure that provide no reliable assessment of any study participant's exposure to OGD related chemicals or physical agents. Neither study assessed any participants' personal exposures from other sources, or from all sources combined (including OGD and other sources), to any chemical or physical agent, nor could they assess whether personal exposure from any source played any causal role in any birth outcome.

Neither study adequately controlled for other known causes of abnormal birth outcomes and neither study provides assurance that the reported results are not spurious because of confounding from these other factors. The associations reported in these studies may simply reflect unjustified modeling assumptions about their exposure metrics, uncontrolled confounding by other exposures, and unjustified assumptions about a lack of confounding by unmeasured covariates rather than causal relationships.

Because of these limitations these studies should not be relied upon in assessing the health risks to California residents from oil and gas development. Please feel free to contact me if any further comments or explanations are needed.

Sincerely,

A handwritten signature in blue ink, reading "David H. Garabrant". The signature is fluid and cursive, with the first name "David" being the most prominent.

David H. Garabrant, MD, MPH  
Emeritus Professor of Occupational Medicine and Epidemiology,  
The University of Michigan  
Ann Arbor, Michigan

## References

1. Adgate JL, Mongin SJ, Pratt GC, Zhang J, Field MP, Ramachandran G, et al. Relationships between personal, indoor, and outdoor exposures to trace elements in PM(2.5). *Sci Total Environ*. 2007;386(1-3):21-32. Epub 2007/08/19.
2. Adgate JL, Ramachandran G, Pratt GC, Waller LA, Sexton K. Spatial and temporal variability in outdoor, indoor, and personal PM2.5 exposure. *Atmospheric Environment*. 2002;36:11.
3. Baxter LK, Dionisio KL, Burke J, Ebel Sarnat J, Sarnat JA. Exposure prediction approaches used in air pollution epidemiology studies: key findings and future recommendations. *J Expos Science Environ Epidemiol*. 2013;23(6):654-9.
4. Bonanno LJ, Freeman NCG, Greenberg M, Liou PJ. Multivariate analysis on levels of selected metals, particulate matter, VOC, and household characteristics and activities from the Midwestern States NHEXAS. *Applied Occupational and Environmental Hygiene*. 2001;16(9):859-74.
5. Clayton CA, Pellizzari ED, Quackenboss JJ. National Human Exposure Assessment Survey: analysis of exposure pathways and routes for arsenic and lead in EPA Region 5. *J ExpoAnalEnviron Epidemiol*. 2002;12(1):29-43.
6. Evans GF, Highsmith RV, Sheldon LS, Suggs JC, Williams RW, Zweidinger RB, et al. The 1999 Fresno particulate matter exposure studies: comparison of community, outdoor, and residential PM mass measurements. *J Air Waste Manag Assoc*. 2000;50(11):1887-96. Epub 2000/12/09.
7. Gonzalez DJX, Sherris AR, Yang W, Stevenson DK, Padula AM, Baiocchi M, et al. Oil and gas production and spontaneous preterm birth in the San Joaquin Valley, CA: A case-control study. *Environ Epidemiol*. 2020;4(4):e099. Epub 2020/08/25.
8. Janssen NA, Hoek G, Brunekreef B, Harssema H, Mensink I, Zuidhof A. Personal sampling of particles in adults: relation among personal, indoor, and outdoor air concentrations. *Am J Epidemiol*. 1998;147(6):537-47. Epub 1998/04/01.
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10. Sexton K, Adgate JL, Ramachandran G, Pratt GC, Mongin SJ, Stock TH, et al. Comparison of personal, indoor, and outdoor exposures to hazardous air pollutants in three urban communities. *Environ Sci Technol*. 2004;38(2):423-30. Epub 2004/01/31.
11. Shrestha PM, Humphrey JL, Carlton EJ, Adgate JL, Barton KE, Root ED, et al. Impact of Outdoor Air Pollution on Indoor Air Quality in Low-Income Homes during Wildfire Seasons. *International journal of environmental research and public health*. 2019;16(19). Epub 2019/09/25.

12. Tran KV, Casey JA, Cushing LJ, Morello-Frosch R. Residential Proximity to Oil and Gas Development and Birth Outcomes in California: A Retrospective Cohort Study of 2006-2015 Births. *Environ Health Perspect.* 2020;128(6):67001. Epub 2020/06/04.
13. Wallace L, Pellizzari E, Hartwell T, Zelon H. Concentrations of 20 volatile organic compounds in the air and drinking water of 350 residents of New Jersey compared with concentrations in their exhaled breath. *Journal of Occupational Medicine.* 1986;28(8):603-8.
14. Wallace LA. Major sources of benzene exposure. *Environmental Health Perspectives.* 1989;82:165-9.
15. Wallace LA, Hartwell TD, Whitmore R, Pellizzari ED. The California team study:breath concentrations and personal exposures to 26 volatile compounds in air and drinking water of 188 residents of Los Angeles, Antioch, and Pittsburg, CA. *Atmospheric Environment.* 1988;22(10):2141-62.

**ATTACHMENT**

David H. Garabrant, MD, MPH, MS, FACOEM, FACPM  
Emeritus Professor of Occupational Medicine and Epidemiology  
The University of Michigan School of Public Health

## **Education and Training**

High School: Westfield High School  
Westfield, New Jersey  
1965 – 1968

Undergraduate: Tufts University  
Medford, Massachusetts. Sept 1968 – June 1972  
B.S., Chemical Engineering, June 1972

Graduate: Tufts University School of Medicine  
Boston, Massachusetts. Sept 1972 – June 1976.  
M.D. received June 1976

Internship: Medicine Intern  
Georgetown University Hospital  
Washington, D.C.  
July 1976 – June 1977

Fellowship Internal Medicine, Ambulatory Care  
Georgetown University Hospital  
Washington, D.C.  
September 1977 – June 1978

Residency: Occupational Medicine  
Harvard School of Public Health  
Boston, Massachusetts  
September 1978 – June 1980  
M.P.H. degree received June 1979  
M.S. in Physiology (Occupational Medicine) received June 1980

Internal Medicine  
Boston University Medical Center  
Boston, Massachusetts  
July 1980 – June 1981

## **Certification and Licensure**

Licensure District of Columbia, 1978, (Certificate - 10775) (inactive)  
Maryland, 1977, (Certificate - D-20626) (inactive)  
Massachusetts, 1978, (Certificate - 42987) (inactive)  
California, 1982, (Certificate - G-47344) (inactive)  
Michigan, 1989, (Certificate - 054132) (active)

Board Certification Internal Medicine, 1981  
Preventive Medicine, 1982  
Subspecialty certification, Occupational Medicine, 1982

## **Academic, Administrative, and Clinical Appointments**

Teaching Assistant in Medicine, Boston University School of Medicine, July 1980 – June 1981

Assistant Professor, University of Southern California School of Medicine, August 1981 – June 1988

Associate Professor, University of Southern California School of Medicine, June 1988 – November 1988

Associate Professor, University of Michigan School of Public Health, December 1988 – June 1996

Associate Professor of Medicine, Department of Medicine, University of Michigan School of Medicine, December 1989 – September 2002

Visiting Faculty, University of Indonesia School of Medicine, August 1995 – June 1996 (Sabbatical)

Professor of Occupational Medicine, University of Michigan School of Public Health, June 1996 – September 2007

Associate Professor, Department of Emergency Medicine, University of Michigan School of Medicine, September 2002 – September 2007.

Professor of Epidemiology, University of Michigan School of Public Health, June 2003 – September 2007

Founding Director, University of Michigan, Center for Risk Science and Communication, 2004 – 2018.

Emeritus Professor of Occupational Medicine and Epidemiology, University of Michigan School of Public Health, September 2007 – present

Emeritus Associate Professor of Emergency Medicine, University of Michigan School of Medicine, September 2007 – present

## **Honors And Awards**

Graduated Magna Cum Laude, Tufts University, 1972.

Tufts University, Tau Beta Pi Engineering Honor Society, 1971

Awarded Training Grant for Study and Research in Occupational Medicine from the National Institute for Occupational Safety and Health, 1978, renewed 1979

Recipient of Preventive Oncology Academic Award, National Cancer Institute, 1987–1992

Chair, Safety and Occupational Health Study Section, National Institutes of Health, 1995–96.

Excellence in Research Award, University of Michigan School of Public Health, April 28, 2006

Top Docs 2006. Hour Detroit Magazine

Emeritus Professor, University of Michigan, September 2007

Research Excellence Award. University of Michigan Risk Center, October 16, 2007.

Franzblau, A., L. Zwica, K. Knutson, Q. Chen, S.-Y. Lee, B. Hong, P. Adriaens, A. Demond, **D. Garabrant**, B. Gillespie, J. Lepkowski, W. Luksemburg, M. Maier, and T. Towey, 2009, "An Investigation of Homes with High Concentrations of PCDDs, PCDFs and/or Dioxin-Like PCBs in House Dust," *J. Occupational and Environ. Hygiene*, 6:188-199. Best Indoor Environmental Quality Paper Award for 2009 awarded by American Industrial Hygiene Association.

## **Memberships in Professional Societies**

American Occupational Medical Association 1982–88. Elected to fellowship, 1986

Western Occupational Medical Association, 1982–88

Board of Directors, 1984–88

Chairman, Educational Affairs Committee, 1986–88

American College of Preventive Medicine, 1985–present. Elected to fellowship, 1986

American Academy of Occupational Medicine, 1985–88

American College of Occupational and Environmental Medicine, 1988–present.

Elected to fellowship, 1988

Michigan Occupational Medical Association Board of Directors, 1989–91

Society for Epidemiologic Research, 1988–present

Michigan Public Health Association, 2001–present

Society for Risk Analysis, 2002–present

International Epidemiological Association, 2002–present

American Chemical Society, 2008–present

## **Editorial Positions, Boards, and Peer-Review Service**

State of Washington Department of Labor and Industries. Chemically Related Illness Scientific Advisory Board. 1994–95.

Charter member, Safety and Occupational Health (SOH) Study Section for the National Institutes of Health, 1992-1996. Chairman, 1995–96.

Chair, Clinical Sciences Special Emphasis Panel. Alcohol and Toxicology (ZRG4) Study Section for the National Institutes of Health, November 1996.

Chair, NCI Review Panel on Breast Cancer and the Environment on Long Island. National Institutes of Health, January 31, 1997.

Member, NCI Review Panel on Regional Variation in Breast Cancer Rates in the United States. National Institutes of Health, Rockville, MD, November 9, 1998.

Member, NIOSH Special Emphasis Panel on Disease, Disability, and Injury Prevention Control Grants, National Institute for Occupational Safety and Health, Florence KY. February 21–23, 1999.

Member, NIEHS Special Emphasis Panel on Superfund Basic Research Projects, National Institute of Environmental Health Sciences, Research Triangle Park, NC. October 25–27, 1999.

Chair, NIOSH Site Visit to University of Washington Educational Resource Center. Seattle, Washington, November 7–9, 2001.



Chair, NIOSH Special Emphasis Panel on Training Programs in Occupational Health and Safety. St. Petersburg, Florida. February 17–20, 2002.

Mickey Leland National Urban Air Toxics Research Center, Houston, Texas. Appointed to Scientific Advisory Board, 2002–2009.

Member, NIH Special Emphasis Panel/Scientific Review Group 2006/10 ZLM1 ZH-P (O1), July 14, 2006

Member NIEHS Special Emphasis Panel/Scientific Review Group 2007/10. National Institute of Environmental Health Sciences, Research Triangle Park, NC. July 11–14, 2007.

Member, American Cancer Society Peer Review Committee on Physician Training Award in Preventive Medicine. American Cancer Society, Atlanta, Georgia. 2008–2012

Institute of Medicine of the National Academies of Sciences. Participant – GAO Workshop on Cancers Added to the World Trade Center Health Program (WTCHP) List of Covered Conditions. Washington, D.C. October 21, 2013.

### **Scientific Journal Board of Editors:**

Journal of Occupational Medicine, Editorial Board. 1987-1992

Medical Journal of Indonesia, Editorial Board. 2000–present

Journal of Environmental and Public Health. 2009-2011

### **Reviewer, Scientific Manuscripts:**

American Journal of Epidemiology  
American Journal of Industrial Medicine  
Chemosphere  
Critical Reviews in Toxicology  
Environmental Health Perspectives  
Environmental Science and Technology  
Epidemiology  
Journal of Exposure Science and Environmental Epidemiology  
Journal of Occupational and Environmental Medicine  
Journal of the National Cancer Institute  
Risk Analysis

### **Teaching**

Attending Physician, Occupational Medicine Outpatient Clinic, University of Michigan Medical Center, Ann Arbor, Michigan, 1989-2011

Director, Occupational and Environmental Epidemiology Program, University of Michigan School of Public Health 2001-2007

### **Ph.D. Thesis Committee Member**

N. Seixas, University of Michigan, School of Public Health, Ann Arbor, Michigan, 1990

A. Rocskay, University of Michigan, School of Public Health, Ann Arbor, Michigan, 1991

N. Nelson, University of Michigan, School of Public Health, Ann Arbor, Michigan, 1992

Carol Burns. The epidemiology of systemic sclerosis: a population based case control study. Ph.D. in Epidemiologic Science, University of Michigan, School of Public Health, Ann Arbor, Michigan, 1994

Jane Krebs. Mortality at an automotive stamping and assembly facility. Ph.D. in Epidemiologic Science, University of Michigan, School of Public Health, Ann Arbor, Michigan, 1995. Doctoral Committee Co-Chair.

Jacqueline Kurtz. An evaluation of peer and professional trainers in an occupational health and safety training program. Ph.D. in Environmental and Industrial Health, University of Michigan, School of Public Health, Ann Arbor, Michigan, 1995

Jon Fryzek. A case-control study of DDT and related compounds and pancreas cancer. Ph.D. in Epidemiologic Science, University of Michigan, School of Public Health, Ann Arbor, Michigan, 1996. Doctoral Committee Co-Chair.

Stephen Martin. 1,1 dichloro-2,2-bis(p-chlorophenyl)ethylene, testosterone levels and lipid profile in African American farmers and farm workers. University of Michigan, School of Public Health, Ann Arbor, Michigan, 2001.

Jeanette Jane Rainey. Epidemiological and environmental co-factors linked to endemic Burkitt's lymphoma in Kenya. Ph.D. in Epidemiologic Science, University of Michigan, School of Public Health, Ann Arbor, Michigan 2005

Gena Pauline Kucera. Hormone replacement therapy and nonsteroidal anti-inflammatory drugs on the risk of colorectal cancer in women. Ph.D. in Environmental and Industrial Health, University of Michigan, School of Public Health, Ann Arbor, Michigan, 2006. Doctoral Committee Chair.

Aaron Sussell. Incidence And Prevalence Of Occupational Contact Dermatitis In Automobile Manufacturing. PhD in Environmental Health Sciences, University of Michigan School of Public Health, 2007.

Andrea Steege. Access to health care among migrant farm workers. University of Michigan, School of Public Health, Ann Arbor, Michigan, 2009. Doctoral Committee Co-Chair.

Qixuan Chen. Bayesian Model Based Approach to Complex Survey Data Analysis. Department of Biostatistics, University of Michigan, School of Public Health, Ann Arbor, Michigan, 2009.

## **Committee, Organizational, and Volunteer Service**

Director, Occupational Medicine, University of Michigan School of Public Health, Ann Arbor, Michigan, December 1988-94

Member, School of Public Health Executive Committee, University of Michigan, Ann Arbor, Michigan, 1989-1991.

Director, Center for Occupational Health, Safety, and Engineering, University of Michigan, Ann Arbor, Michigan, 1990-1995

Associate Director, Center for Occupational Health, Safety, and Engineering, University of Michigan, Ann Arbor, Michigan, 1995-2000

Director, Division of Occupational Health, University of Michigan School of Public Health.  
1992 -1995

Member, Executive Committee, Department of Environmental and Industrial Health, University  
of Michigan School of Public Health, Ann Arbor, MI. January 1992-1995.

Chair, Curriculum Committee, Department of Environmental and Industrial Health, University  
of Michigan School of Public Health, 1996-97.

Chair, Advisory Committee on Academic Rank, University of Michigan School of Public  
Health, 1997-99. Member 1996-97, 1999-00.

Member, Executive Committee, University of Michigan School of Public Health. 2000-2003.

Member, Student Recruitment Committee, Department of Environmental Health Sciences,  
University of Michigan School of Public Health, 2001-03

Founding Director, Center for Risk Science and Communication, University of Michigan School  
of Public Health, 2003-present

Member, Search Committee for Dean of University of Michigan School of Public Health, 2004-  
05

Member, Executive Committee, University of Michigan School of Public Health, 2006-07

Member, Office of the Vice President for Research Conflict of Interest Committee, University of  
Michigan, Ann Arbor, Michigan, 2009-2012

Member, Dean's Advisory Council, University of Michigan School of Public Health, 2012-  
present

### **Visiting Professorships, Seminars, and Extramural Invited Presentations**

1. "Colon Cancer and Job Activity." Invited Paper at Occupational Epidemiology Forum,  
sponsored by USC, UCLA, and UC Irvine Schools of Medicine. Irvine, CA, 1983.
2. Annual Meeting of the Western Occupational Medical Association, "Pulmonary disease in  
borax workers", San Francisco, California, 1982.
3. 4th Annual Rocky Mountain Conference on Occupational and Environmental Health,  
"Respiratory symptoms from borax and boric acid aerosols", Park City, Utah, 1982.
4. American Occupational Medical Association Annual Meeting, "Occupational cancer", Los  
Angeles, California, 1984.
5. "Respiratory Effects of Borax Dust." Invited Paper at Occupational Epidemiology Forum,  
sponsored by USC, UCLA, and UC Irvine Schools of Medicine, Irvine, CA, 1984.
6. Panel Chairman. "Health Issues for Women in the Workplace." Annual Scientific  
Meeting, American Occupational Medical Association, Los Angeles, CA, 1984.
7. "Occupational Cancer." Postgraduate Education Conference at the American Occupational  
Medical Association Basic Curriculum Course, Salt Lake City, UT, 1984.
8. "Epidemiology for the Occupational Physician." Postgraduate Education Conference at the  
Annual Scientific Meeting, American Occupational Medical Association, Los Angeles,  
CA, 1984.

9. "Contact Dermatitis from Aziridine Hardener in Printing Ink." Invited Paper at Occupational Epidemiology Forum, sponsored by USC, UCLA, and UC Irvine Schools of Medicine, Irvine, CA, 1985.
10. Western Occupational Medical Association Conference, "Epidemiology of occupational cancer", Stanford University, Palo Alto, California, 1985.
11. "Toxicology." Workshop on evaluation of workers compensation patients exposed to hazardous chemicals. Postgraduate Education Conference. Presented by the State of California Division of Industrial Accidents and USC School of Medicine, Los Angeles, CA, 1985.
12. Special Studies Unit, Division of Occupational Safety and Health, Department of Industrial Relations, State of California, Sacramento, California, 1985.
13. V International Symposium, Epidemiology in Occupational Health, "Cancer mortality in the aircraft manufacturing industry", Los Angeles, California, 1986.
14. Epidemiology and cancer registries in the Pacific Basin V, "Cancer risks in the aircraft manufacturing industry", Kauai, Hawaii, 1986.
15. "Cancer Mortality in the Aircraft Manufacturing Industry." Invited Paper at Occupational Epidemiology Forum, sponsored by USC, UCLA, and UC Irvine Schools of Medicine, Irvine, CA, 1986.
16. "Occupational exposure to electromagnetic fields and adult leukemia." Invited Paper at Occupational Epidemiology Forum, sponsored by USC, UCLA, and UC Irvine Schools of Medicine, Irvine, CA 1987.
17. "Studies of electromagnetic fields and cancer risk." Seminar at Joint Symposium sponsored by Fred Hutchinson Cancer Research Center, University of Washington School of Medicine and Department of Preventive Medicine, USC. Seattle, WA, 1987.
18. "Electromagnetic fields and cancer risk," and "Exposure assessment in occupational and residential studies of ELF and leukemia." Invited lecturer, International Agency for Research on Cancer, Lyon, France, May 1988.
19. California Cancer Registries Conference 1988: Innovations in Research, "Coding and use of cancer registry data to look for occupational cancers", Newport Beach, California, October 1988.
20. 32nd Annual Western Occupational Health Conference, "When is cancer work related?", Irvine, California, October 1988.
21. "Toxicology of chrome." Invited guest, Aerospace Hazardous Waste Minimization Symposium, Los Angeles, CA, May 1988.
22. "Medical/Ethical Pitfalls of Occupational Medicine From a Clinicians Standpoint." Invited speaker, Southern California Edison Company, Oxnard, CA, July 1988.
23. "Prospective Study of Respiratory Effects of Formaldehyde in Medical Students". Invited speaker, UC Irvine, Department of Community and Environmental Medicine. October 20, 1988.
24. Invited lecturer, California Cancer Registries Conference 1988: Innovations in Research. Lecture topic: "Coding and Use of Cancer Registry Data to Look for Occupational Cancers", Newport Beach, California, October 1988.
25. Lecturer, "Physical Activity and Colon Cancer Risk", seminar sponsored by the University of Michigan, Ann Arbor, Michigan, September 1989
26. Chairperson, 41st Annual Selby Discussional, School of Public Health, University of Michigan, Ann Arbor, Michigan, September 1989

27. Lecturer, "Lung Disease in Borax Miners: Was Borax the Culprit?". School of Public Health, University of Michigan, Ann Arbor, Michigan, October 1989
28. Session Reporter, "Human Health Impacts of Halogenated Biphenyls and Related Compounds". University of Michigan, Ann Arbor, Michigan, November 8-9, 1989
29. Keynote Speaker, Joint Annual Meeting of The Michigan Occupational Medical Association, The Detroit Michigan Association of Occupational Health Nurses, and The Michigan Industrial Hygiene Society, "Electromagnetic Fields and Leukemia". Dearborn, Michigan, November 1989.
30. Lecturer, "Physical Activity and Colon Cancer". Ford World Headquarters, Dearborn, Michigan, January 1990.
31. Lecturer, "Multiple Chemical Sensitivities", press briefing at Dow-Elanco. Midland, Michigan, March 1990.
32. Speaker, "Man made mineral fibers and lung cancer". Presented at Pulmonary Division Grand Rounds, University of Michigan Medical Center, Ann Arbor, Michigan, December 7, 1990.
33. Speaker, "Epidemiologic study of end users of man-made mineral fiber". Report to Annual Scientific Session of the Thermal Insulation Manufacturers Association. Del Mar, California, October 30, 1990.
34. Conference Chairman, 42nd Annual Selby Discussional held at the University of Michigan, Ann Arbor, Michigan, November 8-9, 1990.
35. Invited speaker, "DDT and pancreas cancer". National Institute for Occupational Safety and Health, Cincinnati, Ohio, January 29, 1991.
36. Invited speaker, "Case control study of pancreas cancer among chemical manufacturing workers". University of Cincinnati School of Medicine, Department of Environmental Health Seminar Series. January 30, 1991.
37. Invited speaker, Epidemiologic studies of morbidity of man-made mineral fiber workers". In: Man-made mineral fibers: status of health risk assessment. Course given by the Department of Environmental Health Sciences, Johns Hopkins University School of Hygiene and Public Health. Baltimore, Maryland, March 4, 1991.
38. Invited speaker, "Electromagnetic fields and cancer". Annual meeting of the Semiconductor Industry Safety Association. Phoenix, Arizona, April 15, 1991.
39. Invited presentation, "DDT and pancreas cancer in a case control study of chemical workers." Society for Epidemiological Research Annual Meeting. Buffalo, New York, June 1991.
40. Conference Chairman, 43rd Annual Selby Discussional held at the University of Michigan, Ann Arbor, Michigan, November 1991.
41. Invited Faculty, National Cancer Institute, Division of Cancer Prevention and Control. 1992. Cancer Prevention and Control Academic Course. "Surveillance and special populations: occupations exposed to asbestos". August 7, 1992.
42. Conference Chairman, 44th Annual Selby Discussional held at the University of Michigan, Ann Arbor, Michigan, November 1992.
43. Invited speaker, Occupational Health Symposium Co-Sponsored by Bay Medical Education and the University of Michigan Center for Occupational Health and Safety. Saginaw, Michigan, March 12, 1993. "Occupational Cancers".
44. Invited speaker, Department of Epidemiology, University of Michigan Department of Epidemiology, March 18, 1993. "Recent Studies on EMF and Cancer".

45. Invited speaker, First Annual Cancer Conference. Recent Advances in Colorectal Carcinoma. Sponsored by the American Cancer Society, Detroit, Michigan, April 14, 1993. Epidemiology of Colorectal Cancer.
46. Conference Chairman, 45th Annual Selby Discussional held at the University of Michigan, Ann Arbor, Michigan, September 1993.
47. Invited speaker. Michigan State Medical Society Annual Meeting. "Electromagnetic Fields and Health". Detroit, Michigan, November 11, 1993.
48. Invited presentation. "Occupational exposures and urogenital cancers among leather workers". National Cancer Institute Workshop on Occupational Exposures and Urogenital Cancers. May 23-24, 1994, Rockville, Maryland.
49. Conference Chairman, 46th Annual Selby Discussional held at the University of Michigan, Ann Arbor, Michigan, October 13-14, 1994.
50. University of Michigan Comprehensive Cancer Center Grand Rounds. "DDT and Related Compounds and Pancreas Cancer. October 21, 1994.
51. Western Ohio Occupational Medical Association Annual Scientific Meeting. "Integration of Residents into Occupational Medicine Training". Toledo, Ohio, March 11-12, 1995.
52. Invited Speaker. BASF Corporation Isocyanates Review. Respiratory Disease from TDI and MDI. Wyandotte, Michigan, April 6, 1995.
53. Invited Speaker. Department of Public Health, Wellington School of Medicine. "DDT and pancreas cancer". July 28, 1995, Wellington, New Zealand.
54. Invited Speaker. First Annual Jakarta International Epidemiology Course. "Occupational Disease Epidemiology". December 4-15, Jakarta, Indonesia.
55. Invited Speaker. Faculty of Public Health, University of Indonesia. "Current Issues in Occupational Health". December 19, 1995, Depok, West Java, Indonesia.
56. Invited Speaker. Department of Cardiology, Faculty of Medicine, University of Indonesia. "Preparing an International Manuscript" April 9, 1996. National Cardiac Center, Harapan Kita Hospital, Jakarta, Indonesia.
57. Invited Speaker. Editorial Board of the Medical Journal of Indonesia. "Publishing in the International Medical Literature" April 9, 1996. University of Indonesia School of Medicine, Jakarta, Indonesia.
58. Invited Speaker. "Guidelines for Publishing in the International Medical Literature". May 21, 1996. Department of Internal Medicine Grand Rounds, University of Indonesia School of Medicine, Jakarta, Indonesia.
59. Invited Speaker. Symposium of Occupational Safety and Health to Anticipate the Era of Free Trade in the Year 2020. "Occupational Safety and Health in Developed Industrial Countries". May 23, 1996, University of Indonesia School of Medicine, Jakarta, Indonesia.
60. Invited Faculty, National Cancer Institute, Division of Cancer Prevention and Control. 1996 Cancer Prevention and Control Academic Course. "Special Populations and the Environment. High Risk Populations: Asbestos". August 9, 1996.
61. Invited Speaker. "Epidemiology of Pancreatic Neoplasia". Symposium: Current Concepts in Pancreas Cancer. Barbara Ann Karmanos Cancer Institute. Detroit, MI. September 12, 1997
62. Invited Speaker. "DDT and Related Materials and Pancreatic Cancer". NIEHS Center for Molecular and Cellular Toxicology, Wayne State University Institute of Chemical Toxicology. October 16, 1997.

63. Invited speaker. "Occupational Asthma". Symposium: Global Management of Airway Disease. University of Michigan Medical School, Division of Pulmonary and Critical Care Medicine. May 9, 1998 Livonia, Michigan.
64. Invited Speaker. "Occupational and Environmental Cancer". Annual Scientific Meeting of the Michigan Occupational and Environmental Medicine Association. September 11, 1998. Traverse City, Michigan
65. Invited Speaker. Epidemiology of Natural Rubber Latex Allergies in Health Care Workers. International Conference on Natural Rubber Latex Sensitivity. San Francisco, CA. Feb 9-10, 2001
66. Invited Speaker. Measurement of physical activity in the occupational setting. American Society for Preventive Oncology 25th Annual Meeting. New York City, NY. March 12, 2001.
67. Invited Speaker. XVI World Congress of Epidemiology. Montreal, Quebec. Risk of Solvent Exposure among Women with Scleroderma. August 20, 2002.
68. Invited Speaker. "Research studies of pesticide exposed populations." National Institute of Environmental Health Sciences, Division of Extramural Research and Training (DERT) Science Retreat. Wilmington, NC. November 21-22, 2002.
69. Invited presentation. Williams JM, Garabrant DH. Assessment of sight and hearing protection use in high school vocational, technical, and industrial education programs. Best Practices in Occupational Safety and Health, Education, Training and Communication. 6th International Conference, Scientific Committee on Education and Training in Occupational Health, ICOH. Baltimore, MD. October 28-30, 2002.
70. Invited presentation. Garabrant DH. Environmental and familial risks to pancreas cancer. University of Texas M.D. Anderson Cancer Center, Division of Cancer Prevention and Program in Cancer Prevention & Control. Houston, Texas. April 25, 2003.
71. Invited discussant. Garabrant DH. Manufacturing Science in Regulated Environments. Presented at the International Symposium on Development and Manufacturing Needs in Health Care Industries in the 21st Century. University of Michigan College of Engineering. Ann Arbor, Michigan September 19, 2003
72. Invited Speaker. Garabrant DH. 2003 Carey Pratt McCord Lecture. "Latex allergy in health care workers". Presented at the annual meeting of the Michigan Occupational and Environmental Medicine Association. Royal Oak, Michigan. November 6, 2003.
73. Invited Speaker. Garabrant DH. "The Michigan Dioxin Exposure Study". MidMichigan Medical Center-Midland Family Practice Department and Continuing Medical Education Department. Ann Arbor, Michigan. May 20, 2004.
74. Invited Speaker. Garabrant DH. "Biomarkers and Risk Assessment". Presented at the Association of Schools of Public Health Conference on Environmental Health Risk: Assessment, Management, and Communications. Minneapolis, Minnesota. July 11-13, 2004.
75. Keynote Speaker. Garabrant DH. "The University of Michigan Dioxin Exposure Study". Michigan Epidemiology Conference 2005. Ann Arbor, Michigan. March 11, 2005.
76. Invited Speaker. Garabrant DH. "Meta-Analysis as a Tool for Understanding Asbestos-Related Disease". Presented at the AIHce 2005 Annual Conference of the American Industrial Hygiene Association and American Conference of Governmental Industrial Hygienists. Anaheim, CA May 25, 2005

77. Invited Speaker. Garabrant DH. Mesothelioma risks among auto mechanics. Annual Scientific Meeting of the Michigan Occupational and Environmental Medicine Association. Lansing, MI. September 22, 2005.
78. Invited Speaker. Garabrant DH. "The University of Michigan Dioxin Exposure Study". Michigan's Premier Public Health Conference. Partnerships: Working Together to Improve the health of Michigan's Citizens. Michigan Association for Local Public Health. Grand Rapids, MI October 12, 2005
79. Moderator. Garabrant DH. Session IV Exposure Assessment. First Annual Air Toxics Research Workshop. Mickey Leland National Air Toxics Research Center. Houston, Texas. October 17, 2005.
80. Invited Speaker. Garabrant DH. Biomonitoring in Epidemiology Studies. Michigan Society of Toxicology Fall 2005 Meeting. Lansing, MI. November 4, 2005.
81. Invited speaker. DH Garabrant. Cohort mortality study of transmission and chassis workers. American Osteopathic College of Occupational and Preventive Medicine Mid-Year Conference. Pittsburgh, Pennsylvania. March 18, 2006.
82. Invited Speaker, Grand Rounds. Garabrant DH. Environmental and genetic factors in pancreas cancer. Department of Medicine, University of California, Irvine Medical Center, March 28, 2006.
83. Invited Presentation. Franzblau A, Garabrant D. The University of Michigan Dioxin Exposure Study: Project Overview. Dioxin 2006 Conference, Oslo, Norway. August 21, 2006.
84. Invited Presentation. Olson K, Garabrant D. Prevalence of Exposure Routes in The University of Michigan Dioxin Exposure Study: Food Consumption, Recreational and Household Activities, Occupations and Demographics. Dioxin 2006 Conference, Oslo, Norway. August 21, 2006.
85. Invited Presentation. Adriaens P, Garabrant D. Measurements of Soil Concentrations of PCDDs, PCDFs, and PCBs From a Community in Michigan, USA. Dioxin 2006 Conference, Oslo, Norway. August 21, 2006.
86. Invited Presentation. Zwica L, Garabrant D. Measurements of Household Dust Concentrations of PCDDs, PCDFs, and PCBs From a Community in Michigan, USA. Dioxin 2006 Conference, Oslo, Norway. August 21, 2006.
87. Invited Presentation. Hedgeman E, Garabrant D. Measurements of Serum Concentrations of PCDDs, PCDFs, and PCBs From a Community in Michigan, USA. Dioxin 2006 Conference, Oslo, Norway. August 21, 2006.
88. Invited Presentation. Garabrant D. Environmental Factors That Explain Variation in Serum Dioxin Concentrations in a Community in Michigan, USA. Dioxin 2006 Conference, Oslo, Norway. August 21, 2006.
89. Invited Presentation. Chang S-C, Garabrant D. Analysis of Patterns in PCDD, PCDF, and PCB Soil Concentrations From a Community in Michigan, USA. Dioxin 2006 Conference, Oslo, Norway. August 21, 2006.
90. Invited Presentation. Lepkowski J, Garabrant D. Survey methodology in an environmental exposure study: methods to assure sound inference. Dioxin 2006 Conference, Oslo, Norway. August 21, 2006.
91. Invited Presentation. Garabrant D. Factors that predict serum dioxin concentrations in Michigan, USA. Dioxin 2007. Tokyo, Japan. September 3, 2007.



92. Invited Presentation. Chen Q, Garabrant D. Serum 2,3,7,8-TCDD concentration in a Michigan, USA population with no unusual sources of exposure. Dioxin 2007 Conference, Tokyo, Japan. September, 2007.
93. Invited Presentation. Knutson K, Garabrant D. Linear regression modeling to predict household dust TEQ and TCDD concentration. Dioxin 2007 Conference, Tokyo, Japan. September, 2007.
94. Invited Presentation. Hong B, Garabrant D. Impact of the changes in WHO TEF values from 1998 to 2005 on the total TEQ values in serum, household dust and soil. Dioxin 2007 Conference, Tokyo, Japan. September, 2007.
95. Invited Presentation. Franzblau A, Garabrant DH. Human exposure to dioxins from clay: a case report. Dioxin 2007 Conference, Tokyo, Japan. September, 2007.
96. Invited Presentation. Jolliet O, Garabrant D. Effect of age and historical intake on blood dioxin concentrations: pharmacokinetic modeling to support statistical analyses. Dioxin 2007 Conference, Tokyo, Japan. September, 2007.
97. Invited Presentation. Towey T, Garabrant, D. Multivariate statistical analysis of dioxin profiles to explain source contributions to serum dioxins. Dioxin 2007 Conference, Tokyo, Japan. September, 2007.
98. Invited Presentation. Trinh H, Garabrant D. spatial distribution of dioxins from an incinerator; a validation study. Dioxin 2007 Conference, Tokyo, Japan. September, 2007.
99. Invited Presentation. Garabrant DH. Biomonitoring Results from the University of Michigan Dioxin Exposure Study. The NAS and WHO on Dioxin and Dioxin-like Compounds: International Policy Implications and Potential Impact, Michigan State University, September 19, 2007.
100. Invited Presentation. Garabrant, DH. Factors that predict serum dioxin concentrations in Michigan, USA. 17<sup>th</sup> Annual Conference of the International Society for Exposure Assessment, Durham, NC. October 16, 2007.
101. Garabrant D. Effective messages in concerned communities: the dioxin exposure study. 2007 Bernstein Symposium. Nanotechnology and Health: Evidence and Impact. University of Michigan Risk Science Center. October 26, 2007.
102. Invited Presentation. Garabrant, DH. Factors that predict serum dioxin concentrations in Michigan, USA. Society for Risk Analysis 2007 Annual Meeting. San Antonio, TX, December 9-12, 2007..
103. Invited Presentation. Garabrant D. The University of Michigan Dioxin Exposure Study project overview. Society for Risk Analysis 2007 Annual Meeting. San Antonio, TX, December 9-12, 2007.
104. Invited Presentation. Garabrant D. Chlorpyrifos exposure, inhibition of butyrylcholinesterase, and paraoxonase (PON1) activity in pesticide manufacturing workers. EPICOH-NEUREOH 2008 Conference, San Jose, Costa Rica, June 11, 2008.
105. Invited Presentation. Jolliet O, Wenger Y, Adriaens P, Chang C-W, Chen Q, Franzblau A, Gillespie BW, Hedgeman E, Hong B, Jiang X, Knutson K, Lepkowski J, Milbrath MO, Reichert H, Towey T, Garabrant, D. Explaining age dependency using pharmacokinetic modeling in the analysis of blood TCDD concentrations. Dioxin 2008 Conference, Birmingham, England, August, 2008.
106. Invited Presentation. Garabrant DH. Project overview and results of linear regression models of serum dioxin levels. Dioxin 2008 Conference, Birmingham, England, August, 2008.

107. Invited presentation. Garabrant DH. Cancer Mortality among U.S. Automotive Transmission Manufacturing Workers Exposed to Metal Working Fluids,” 2008 MRF SYMPOSIUM. October 5-8, Dearborn, Michigan.
108. Invited Presentation. Jiang X, Chen Q, Garabrant D, Hong B, Gillespie B, Lepkowski J, Franzblau A, Adriaens P, Demond A. Logistic Regression Models of High Serum Dioxin Level. Dioxin 2009 Conference, Beijing, China, August 27, 2009.
109. Invited Presentation. Hong B, Garabrant D, Jiang X, Chen Q, Franzblau A, Gillespie B, Lepkowski J, Adriaens P, Demond A. Factors that Predict Serum Concentration of 2,3,7,8-TCDD in People from Michigan, USA. Dioxin 2009 Conference, Beijing, China, August 27, 2009.
110. Invited Presentation. Gillespie B, Reichert H, Chen Q, Franzblau A, Lepkowski J, Adriaens P, Demond A, Luksemburg W, Garabrant D. Estimating Population Percentiles Using the Turnbull Estimator When Some Data Are Below the Limit of Detection. Dioxin 2009 Conference, Beijing, China, August 27, 2009.
111. Invited Presentation. Garabrant D, Hong B, Jolliet O, Chen Q, Jiang X, Franzblau A, Lepkowski J, Adriaens P, Demond A, Hedgeman E, Knutson K, Towey T, Gillespie B. Public Health Impact of Dioxin Exposure Pathways in the UMDES, Based on Linear Regression Models. Dioxin 2009 Conference, Beijing, China, August 27, 2009..
112. Invited Presentation. Franzblau A, Hedgeman E, Jiang X, Chen Q, Hong B, Knutson K, Towey T, Adriaens P, Demond A, Gillespie B, Jolliet O, Lepkowski J, Garabrant D. The University of Michigan Dioxin Exposure Study: An Investigation of Serum Outliers for TEQ, 2,3,7,8-TCDD, 2,3,4,7,8-PeCDF, and PCB-126. Dioxin 2009 Conference, Beijing, China, August 27, 2009.
113. Invited Presentation. Franzblau A, Garabrant D, Gillespie B, Jiang X, Adriaens P, Demond A, Jolliet O, Lepkowski J. Implications of the EPA’s new preliminary remediation goals for residential soil based on the University of Michigan Dioxin Exposure Study. Dioxin 2010 Conference, San Antonio, Texas. September 12-16, 2010.
114. Invited Presentation. Garabrant D, Jiang X, Franzblau A, Adriaens P, Demond A, Gillespie B, Jolliet O, Lepkowski J, Hao W. The University of Michigan Dioxin Exposure Study: Relationship between residential soil, household dust, and serum dioxin levels. Dioxin 2010 Conference, San Antonio, Texas. September 12-16, 2010.
115. Invited Presentation. Hao W, Jolliet O, Jiang X, Garabrant D, Franzblau A, Adriaens P, Demond A, Gillespie B, Lepkowski J. The University of Michigan Dioxin Exposure Study: Dioxin intake due to fish and game consumption in a dioxin-contaminated area. Dioxin 2010 Conference, San Antonio, Texas. September 12-16, 2010.
116. Invited Presentation. Hao W, Jolliet O, Jiang X, Chang C-W, Towey T, Wenger Y, Garabrant D, Franzblau A, Adriaens P, Demond A, Gillespie B, Lepkowski J. The University of Michigan Dioxin Exposure Study: A pharmacokinetic modeling approach to investigate the predictors of serum TCDD concentration. Dioxin 2010 Conference, San Antonio, Texas. September 12-16, 2010.
117. Invited Presentation. Evidence of dioxin exposure in Michigan residents exposed to contaminated soils. The 37<sup>th</sup> Annual Summer Meeting of the Toxicology Forum. The Aspen Institute, Aspen, Colorado. July 12, 2011.
118. Invited Presentation. Garabrant DH. Improving measures in epidemiology: prospective cohort study of chlorpyrifos manufacturing workers. Symposium ILSI Argentina – ILSI HESI – SETAC Capitulo Argentino. Advances in Epidemiology: the impact of pesticides. September 28, 2011. Argentine Scientific Society, Buenos Aires, Argentina.

119. Invited Presentation. Garabrant DH. The University of Michigan Dioxin Exposure Study: Predictors of human serum dioxin concentrations in Midland and Saginaw Michigan. Society of Toxicology of Canada 43<sup>rd</sup> Annual Symposium. Montreal, Canada. December 4-6, 2011.
120. Invited Presentation. Franzblau A, Broadwater K, Luksemburg W, Maier M, Jiang X, Garabrant DH, Demond A. Serum Concentrations of Polychlorinated Dibenzo-p-dioxins Among Users of Ball Clay. Joint ISEE, ISES and ISIAQ Environmental Health Conference. 19-23 August 2013, Basel, Switzerland.
121. Invited presentation: Garabrant DH. Biomonitoring of chlorpyrifos excretion, butyryl cholinesterase activity, and acetyl cholinesterase activity among chlorpyrifos manufacturing workers. In: Use of spot biomonitoring samples for environmental epidemiology. International Society of Exposure Sciences 25<sup>th</sup> Annual Meeting. Henderson, NV October 22, 2015.
122. Invited presentation. Garabrant DH and Pastula SS. A comparison of asbestos fiber potency and elongate mineral particle (EMP) potency in humans. Monticello Conference. October 18, 2017. Charlottesville, Virginia.

## Bibliography

### Peer Reviewed Journals and Publications:

1. Peters JM, Wright WE, Garabrant DH. Occupational epidemiology: detection of cancer in the workplace. *West J Med* 1982; 137:555-559.
2. Bernstein RS, Sorenson WG, Garabrant DH, Reaux I, Keough B, Hunninghake G, Treitman M. Exposures to respirable airborne penicillium from a contaminated ventilation system: clinical, environmental, and epidemiological aspects. *Am Indus Hygiene Assoc J* 1983; 44:161-169.
3. Garabrant DH, Peters JM, Mack TM, Bernstein L. Job activity and colon cancer risk. *Am J Epidemiol* 1984; 119:1005-1014.
4. Garabrant DH, Peters JM, Bernstein L, Smith T. Respiratory and eye irritation from boron oxide and boric acid dusts. *J Occup Med* 1984; 26:584-586.
5. Garabrant DH, Wegman DH. Cancer mortality among shoe and leather workers in Massachusetts. *Am J Indust Med* 1984; 5:303-314.
6. Garabrant DH, Peters JM, Bernstein L, Smith T, Wright WE. Respiratory effects of borax dust. *Brit J Indust Med* 1985; 42:831-837.
7. Garabrant DH. Dermatitis to an aziridine hardening agent used in water based printing ink. *Contact Dermatitis* 1985; 12:209-212.
8. Peters JM, Garabrant DH, Wright WE, Bernstein L, Mack TM. Uses of a cancer registry to assess occupational cancer risks. *National Cancer Institute Monograph* 1985; 69:157-161.
9. Osorio AM, Bernstein L, Garabrant DH, Peters JM. Investigation of lung cancer among female cosmetologists. *J Occup Med* 1986; 28:291-295.
10. Froines JR, Garabrant DH. Quantitative evaluation of manicurists exposure to methyl, ethyl, and isobutyl methacrylate during production of synthetic fingernails. *App Indust Hyg* 1986; 1:70-74.
11. Garabrant DH, Fine LJ, Oliver C, Bernstein L, Peters JM. Abnormalities of pulmonary function and pleural disease among titanium metal production workers. *Scand J Work Health Environ* 1987; 13:47-51.

12. Kawamoto MM, Garabrant DH, Balmes JR, Fynboh R, Dimick DV, Simonowitz JA, Held J, Bernstein L. Respiratory effects of cotton dust exposure in the cotton ginning industry. *Am J Ind Med* 1987; 11:505-515.
13. Garabrant DH, Held J. Mortality study of aircraft manufacturing employees. *Scand J Work Health Environ* 1987; 13:170-171.
14. Peters JM, Garabrant DH, Preston-Martin S, Yu MC. Is trichloroethylene a human carcinogen? *Scand J Work Health Environ* 1987; 13:180.
15. Goldberg R, Garabrant DH, Peters JM, Simonowitz J. Excessive lead absorption resulting from exposure to lead naphthenate. *J Occup Med* 1987; 29:750-751.
16. Barone JA, Peters JM, Garabrant DH, Bernstein L, Krebsbach R. Smoking as a risk factor for noise-induced hearing loss. *J Occup Med* 1987; 29:741-745.
17. Preston-Martin S, Garabrant DH. Occupational risks for meningiomas of the CNS in Los Angeles County. *J Occup Med* 1988; 30:14-18.
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