

List of major scientific publications

Karras, G., 2021. Unsustainable Aviation Fuels: An assessment of carbon emission and sink impacts from biorefining and feedstock choices for producing jet biofuel from repurposed crude refineries. Prepared for the Natural Resources Defense Council: San Francisco, CA.

Karras, G., 2021. Changing Hydrocarbons Midstream: Fuel chain carbon lock-in potential of crude-to-biofuel petroleum refinery repurposing. Prepared for the Natural Resources Defense Council: San Francisco, CA.

Karras, G., 2020. Decommissioning California Refineries: Climate and Health Paths in an Oil State. Two volumes including a Supporting Material Appendix available online. Communities for a Better Environment (CBE): Huntington Park, Oakland, Richmond, and Wilmington, CA. Available from CBE at [www.cbecal.org](http://www.cbecal.org), and from the author at [www.energy-re-source.com](http://www.energy-re-source.com).

Karras, G., 2019. Time Scales of Change in a Climate-constrained Fuel Chain—Case Study: Petroleum Technology in California. Presentation. Presented at the *Refinery and Chemical Industry Emissions Symposium*, University of California at Davis, on 8 November 2019. Visual presentation.

Karras, G., and B. Fazeli, 2017. State Gift to Big Oil Keeps Pollution Profitable Under "Cap and Trade." A CBE Report. Communities for a Better Environment: Huntington Park, Oakland, Richmond, and Wilmington, CA. July 2017.

Karras, G., 2015. Toxic and Fine Particulate Emissions from U.S. Refinery Coking and Cracking of 'Tar Sands' Oils. Analysis for the Natural Resources Defense Council, NRDC: San Francisco, CA. Author contact information: c/o CBE, 1904 Franklin St., Suite 600, Oakland, CA 94612.

Krogh, M., Karras, G., Waldo, T. and Scher, E., 2015. Crude Injustice on the Rails: Race and the Disparate Risk from Oil Trains in California. ForestEthics and Communities for a Better Environment. Stand.earth: Bellingham, WA, San Francisco, CA and Vancouver, BC. <https://www.stand.earth/blog/people-vs-big-oil/stop-oil-trains/crude-injustice-rails-california>

Karras, G., 2013. Testimony regarding the Interim Investigation Report, Chevron Richmond Refinery Fire. Presented to the U.S. Chemical Safety and Hazard Investigation Board, 19 April 2013 at Memorial Auditorium, Richmond, CA.

Karras, G., 2012. Comment on "Analysis of Energy Use and CO<sub>2</sub> Emissions in the U.S. Refining Sector, With Projections for 2025." *Environmental Science & Technology* 46: 7921–7922. doi 10.1021/es301915z American Chemical Society: Washington, D.C.

Karras, G., 2011. Oil Refinery CO<sub>2</sub> Performance Measurement. Technical analysis prepared by Communities for a Better Environment (CBE) for the Union of Concerned Scientists. September 2011. Union of Concerned Scientists: Berkeley, CA.

Karras, G., 2010. Combustion Emissions from Refining Lower Quality Oil: What is the Global Warming Potential? *Environmental Science & Technology* 44(24): 9584–9589. doi 10.1021/es1019965 American Chemical Society: Washington, D.C.

Karras, G., May, J. and A. E. Lee, 2008. Increasing GHG emissions from dirty crude. Analysis of publicly available data for one of the oil refining processes expanding for more contaminated oil in California: Hydrogen steam reforming. A CBE report. Communities for a Better Environment: Oakland and Huntington Park, CA.

List of major scientific publications (continued)

Karras, G., Pérez, C., Tovar, J. and Bloch, A., 2007. Flaring Prevention Measures. A CBE report. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G. and Hernandez, S., 2005. Flaring Hot Spots: Assessment of Episodic Air Pollution Associated with Oil Refinery Flaring Using Sulfur as a Tracer. A CBE report. Communities for a Better Environment: Oakland and Huntington Park, CA.

Smeloff, E., Karras, G., Yeung, M., DaCosta, F. and Gill, G., 2004. Issue Analysis Statement of the Load Forecasting and Power Flow Analysis Work Group. G. Karras, Communities for a Better Environment: Oakland and Huntington Park, CA.; and E. Smeloff, San Francisco Public Utilities Commission, San Francisco, CA., co-chairs.

May, J., Cosentino, T., Perez, C., Karras, G., Valen, T. and Napolis, A.J., 2004. Refinery Flaring in the Neighborhood. A CBE report. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., May, J., Simon, A., Thomas, M., and W. Rostov, 2001. Power & Justice: Electricity, Environment, Race, Class, and Health in San Francisco, California. A CBE report. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., 2001. Dioxin Pollution Prevention Inventory for the San Francisco Bay. *In: Persistent, Bioaccumulative, and Toxic Chemicals II: Assessment and New Chemicals*. Lipnick, R.L., Jansson, B., Mackay, D. and Petreas, M., eds. ACS Symposium Series 773. American Chemical Society: Washington, D.C. Distributed by Oxford University Press.

Karras, G., 2001. Continuing Research into Gulf War Illness. *Science* 292(5518): 853. American Association for the Advancement of Science. Commentary.

Karras, G., Susag, K., Porras, C., Napolis, A.J., and T. Cosentino, 2000. Bromine Toxics Rising. CBE Report No. 2000–3. December, 2000. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., Akaba, A., Simon, A., Susag, K., and S. Tuddenham, 2000. Dioxins and Refineries: Analysis in the San Francisco Bay Area. CBE Report No. 2000–2. August, 2000. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., 1998. On the Hook for Zero Dioxin: For Health, Justice, Our Children and San Francisco Bay. CBE Report No. 98–2. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., and C.R. Bennett, 1996. A Ton of Prevention: How Unocal 76 Can Stop Selenium Pollution Affecting San Francisco Bay and Public Health. CBE Report No. 96–1. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., Belliveau, M., Fugazzotto, P., Chin, W., Larson, D., May, J., Chorover, N., Williams, M., and M. Ozen, 1995. Poison for Profit: Unocal 76's Toxic Dumping Threatens People and San Francisco Bay. CBE Report No. 95–1. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., 1994. Clean Safe Jobs: A Sustainable Manufacturing Model; A Case Study In-progress in Silicon Valley, California. Presented at the Commonwealth Club Water Section Meeting, November 17, 1994. Communities for a Better Environment: Oakland and Huntington Park, CA.

List of major scientific publications (continued)

Karras, G., Belliveau, M., Chorover, N., May, J., Larson, D., Fugazzotto, P., Ozen, M., and M. Leedie, 1994. Dirty Crude: The First Oil Industry-wide Analysis of Selenium Discharge Trends Impacting San Francisco Bay. CBE Report No. 94-1. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., 1994. Clean Safe Jobs: A Sustainable Manufacturing Model; A Case Study In-progress in Silicon Valley, California. Presented at the Commonwealth Club Water Section Meeting, November 17, 1994. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., Belliveau, M., Chorover, N., May, J., Larson, D., Fugazzotto, P., Ozen, M., and M. Leedie, 1994. Dirty Crude: The First Oil Industry-wide Analysis of Selenium Discharge Trends Impacting San Francisco Bay. CBE Report No. 94-1. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., Belliveau, M., Ramo, A., Chorover, N., Creighton, H., Larson, D., May, J., Williams, M., and M. Ozen, 1992. Clean Safe Jobs: The Benefits of Toxic Pollution Prevention and Industrial Efficiency to the Communities of South San Francisco Bay. A CBE Report. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., 1992. Comparison of Copper in Waters of the Southern Reach of San Francisco Bay and Ten Other Estuaries. Communities for a Better Environment: Oakland and Huntington Park, CA.

May, J., Karras, G., Morgan, J., and D. Sommer, 1991. Every Which Way: The Major Damage to Human Health and Bay Waters from Toxic Chemicals Emitted by Motor Vehicles in the San Francisco Bay Region. A CBE Investigation of the Environmental Impacts of the Automobile. CBE Comment #91648. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., Maxwell, J., Obrebski, S., Chorover, N., Belliveau, M., Parsons, K., and H. Creighton, 1990. Hidden Polluters of California's Coast: A Preliminary Analysis of Industrial Toxic Releases into California's Coastal Environment through Public Sewers. CBE Report No. 90-2. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., Obrebski, S., Maxwell, J., Rands, T., Fort, D., and A. Ramo, 1989. Industrial Toxic Dischargers in South San Francisco Bay. CBE Report No. 89682. Communities for a Better Environment: Oakland and Huntington Park, CA.

Karras, G., 1988. Pollution Prevention: The Chevron Story. *Environment* 31(8): 5, 45. Heldref Publications: Washington, D.C.

Karras, G., Belliveau, M., and K. Miller, 1987. Toxic Hot Spots in San Francisco Bay: A Preliminary Environmental Risk Screening for Selected Pollutants in Bay Sediments, Shellfish, Ducks and Waters. CBE Report No. 87686. Communities for a Better Environment: Oakland and Huntington Park, CA.