

U.S. House Committee on Oversight and Reform

Subcommittee on Environment

Expert Testimony by

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My name is Paul Mohai and I am a Professor in the School for Environment and Sustainability at the University of Michigan. I have been researching, writing, and teaching about the topic of environmental racism and injustice for more than 30 years.

I was very influenced in 1987 by the United Church of Christ (UCC) report *Toxic Wastes and Race in the United States*, which was the first study in the U.S. to examine the distribution of hazardous waste sites around the nation. It found that the concentration of people of color in zip code areas containing commercial hazardous waste facilities was double that in zip codes without such facilities. Furthermore, these concentrations were more than triple in zip codes with more than one facility. And in multivariate statistical analyses controlling for family incomes, property values, and other factors, the racial composition remained the most important predictor of which zip codes contained hazardous waste facilities and which ones did not. This report was

transformative, as I was not previously aware that certain communities were systematically more burdened by environmental hazards than others.

This realization motivated me to search the literature to see if other similar studies existed. When I began my search in the late 1980s, I found a little over a dozen studies had been published, most before *Toxic Wastes and Race*. Consistent with that report, these studies found that the environmental hazards under investigation were distributed inequitably by race or income, and where it was possible to weigh the relative importance of race and income, race tended to be the better predictor (Mohai and Bryant 1992).

These findings led me to team up with Prof. Bunyan Bryant, now an Emeritus Professor at the University of Michigan, to investigate this issue more closely. In 1989, we were appointed Faculty Investigators of the University of Michigan's 1990 Detroit Area Study (DAS). We used the DAS to compare the environmental attitudes of African American and white residents in the Detroit Metropolitan Area. We also determined the locations of the residents and measured their distances to a wide range of potentially hazardous sites, such as commercial hazardous waste facilities, superfund sites, polluting industrial facilities, landfills, and other such sites often referred to as "locally unwanted land uses" or LULUS. Ours was, to our knowledge, the first environmental injustice analysis to be conducted in the Detroit Metropolitan Area. As with *Toxic Wastes and Race in the U.S.*, we found statistically significant disparities based on the race and incomes of the Detroit Area Study respondents (Mohai and Bryant 1992, 1998).

As a separate project, Professor Bryant and I organized the 1990 Michigan Conference on Race and the Incidence of Environmental Hazards. To our knowledge, this was the first Conference to bring together academics from across the U.S., who were studying environmental disparities, to discuss their research and the implications of their findings. The Conference and its Proceedings (Bryant and Mohai 1990, 1992) got the attention of the U.S. Environmental Protection Agency (EPA). In September 1990, I, along with Prof. Bryant and several other of the Conference participants, was invited to meet with EPA Administrator William Reilly to talk about our findings and what the EPA could do. As a result of this and subsequent meetings with Administrator Reilly, in 1992, the EPA published a report entitled *Environmental Equity: Reducing Risks for All Community*. This report included an independent review of the evidence and concluded that environmental inequalities in the U.S. needed to be addressed. It also offered recommendations as to what the agency could do. This report represents the first official acknowledgement by the EPA, or any federal agency, that racial and socioeconomic disparities exist in the distribution of environmental hazards and that they need to be addressed. The EPA credited *Toxic Wastes and Race in the U.S.* and the 1990 Michigan Conference on Race and the Incidence of Environmental Hazards for bringing the issues of environmental justice to the attention of the agency.

Shortly after the EPA released its report, the U.S. House of Representatives convened hearings. Over the years, numerous bills have been introduced in both the House of Representatives and Senate, none of which have been signed into law. In 1994, President Clinton issued Executive Order 12898, which called on all federal agencies, not just the EPA, to take into account the environmental justice consequences of their decision making.

Over the years, I, along with colleagues and students, have conducted a number of national-level, state-level, and metropolitan-level studies of environmental inequality and disparity. The outcomes of these studies have consistently shown disproportionate environmental burdens in poor communities and communities of color. Academic interest in this topic has likewise grown substantially since the late 1980s and early 1990s. Interest in this topic has expanded to include a number of disciplines including sociology, political science, economics, geography, public health, law, and urban planning. The evidence overwhelmingly supports the claims that environmental hazards of a wide variety disproportionately burden poor communities and communities of color, and that race tends to be the most important predictor.

In the 1990's, a small number of studies came out that challenged the research supporting claims that racial and socioeconomic disparities in the distribution of environmental burdens exist. These studies relied on a method called the unit-hazard coincidence method, which has been demonstrated to underestimate racial and socioeconomic disparities in the distribution of environmental hazards. With the development and increasing availability of geographic information systems (GIS), my colleague, Prof. Robin Saha, and I have shown that it is possible to obtain more consistent and accurate estimates of the demographic composition of neighborhoods within uniform distances of the sources of pollution and environmental hazards. We have termed such methods "distance-based" methods and we have demonstrated that the concentration of poor people and people of color are found to be much greater when distance-based methods are applied than when the less accurate unit-hazard coincidence method is applied (Mohai and Saha, 2006, 2007, 2015).

In 2007, Professor Saha and I teamed with environmental justice scholars Dr. Robert D. Bullard and Dr. Beverly Wright to update the 1987 report *Toxic Wastes and Race in the U.S.*, applying distance-based methods to an updated list of hazardous waste treatment, storage and disposal facilities (TSDF) and the 2000 Census data (Bullard, Mohai, Saha, and Wright 2007). We found that the concentration of people of color near hazardous waste TSDFs was greater than what the 1987 study and other previous studies had found. Of the population of people who live within 3.0 kilometers of a TSDF, 56 percent are people of color. Where TSDFs are clustered, this concentration increases to 68 percent. Furthermore, the racial composition of the neighborhoods remains an independent and statistically significant predictor of the location of TSDFs, even after controlling for socioeconomic variables such as mean household income, mean property values, educational attainment, and employment in professional vs. blue collar occupations. This is an important finding in that it suggests that racial disparities in the distribution of environmental hazards are not just a function of socioeconomic disparities. There is something unique about “race” that contributes to the outcomes.

In our study, titled *Toxic Wastes and Race at 20*, we not only looked at racial and socioeconomic disparities in the nation as a whole, but also by state. We found that Michigan was not only among the top ten states with the greatest racial disparities in the distribution of hazardous waste TSDFs, but that Michigan is the number one state with *the* greatest racial disparities. Specifically, 66 percent of people living within three kilometers of a TSDF in Michigan are people of color compared to 19 percent for the rest of the state.

In a 2005 study, Professor Saha, and I found that there has been a history in Michigan of locating, at the time of siting, hazardous waste TSDFs where people of color are disproportionately concentrated (Saha and Mohai 2005). In a 2015 study, we found this pattern extends nationally (Mohai and Saha 2015).

In 2009, I worked with colleagues at the University of Michigan Institute for Social Research (ISR) to publish a paper in the *American Journal of Public Health*. Our paper was the first to determine the proximity of participants in a national public health survey (the American Changing Lives Study) to major industrial polluters. The major industrial polluters were identified by their reporting to the EPA's Toxic Release Inventory (TRI). Using the racial and socioeconomic information collected in the survey, we found statistically significant disparities in the proportion of white and African American participants living within one mile of the facilities. In the U.S. as a whole, we found that 38 percent of the African American participants compared to 29 percent of the white participants lived within one mile of a TRI facility. We found that these disparities varied by region and that the greatest disparities were in the Midwest Metropolitan Areas, where 58 percent of African American participants compared with 35 percent of white participants live within one mile. We furthermore found that controlling for socioeconomic characteristics, such as income and education, did not eliminate the statistically significant racial disparities that remained.

In another study published in 2011 in the journal *Health Affairs*, my colleagues and I examined total air pollution concentrations from major industrial sources within one, two, and three kilometers of the 3,660 public schools in Michigan. We used the EPA's Risk Screening

Environmental Indicators Geographic Microdata, which is based on air dispersion modeling of the emissions data reported by industry to the U.S. EPA's Toxic Release Inventory (TRI). To our knowledge, it is the first statewide study in Michigan to focus questions of environmental injustice specifically to children in the State. An important outcome of our analysis was that two-thirds (64 percent) of the schools in Michigan are located in the more polluted parts of their districts. Furthermore, we found that the median air pollution concentrations of the areas within two kilometers of the schools in the Detroit Metropolitan Area were greater than the concentrations in the metropolitan area, as a whole, for every year from 1999 to 2006. Likewise, the median air pollution concentrations of the areas within two kilometers of the schools in the City of Detroit were higher than the concentrations in the City, as a whole, for the entire period. In addition to these findings, we found that: a) the greater the concentration of students of color and poor students in the school, the greater the estimated pollution around the school, and that b) the greater the estimated pollution around the school, the greater the percentage of students who fail to meet the State's standards in English and math.

Most recently, a group of graduate students I advised (Laura Grier, Delia Mayor, Brett Zeuner) conducted a Statewide environmental justice assessment in collaboration with the Michigan Environmental Justice Coalition (MEJC). This assessment is the first to take into account multiple environmental burdens facing communities in the State and the first to combine environmental data with demographic data to rank all the approximately 2,800 census tracts in Michigan for their relative disadvantage. Specifically, using an approach modeled after that used in California's CalEnviroScreen cumulative assessment screening tool, they combined information from 11 environmental indicators and six demographic variables to rank Michigan

census tracts. They found that the average minority percentage of the top one percent (28) ranked tracts (i.e., with the highest EJ scores) is 86 percent, in contrast to a statewide average of 29.2 percent. Of these same 28 tracts, the average percentage of households making less than twice the federal poverty level is 69.9 percent, in contrast to a statewide average of 30.8 percent. At the same time, these 28 top-ranked tracts fared worse on nearly all (ten of the 11) environmental indicators compared to the state. For example, average Cancer Risk was found to be 44.8 per million for the top 28 tracks, compared to the state average of 31.8 per million. The average daily traffic proximity and volume for the top 28 tracts was found to be 4,327 per meter of road, compared to the state average of 688. The average combined number of Superfund sites, Risk Management Plan sites, and Hazardous Waste TSDFs in the top 28 was found to be 6.9, compared to the state average of 1.5 (Grier, Mayor, and Zeuner 2019).

Despite the considerable amount of research, evidence, and scholarly writing on the issues of environmental racism and injustice in the past 30 years, policy development to remedy the problems has been surprisingly slow. Despite the 1994 Executive Order, there has been little evidence that actual progress to improve conditions in impacted communities has been made. Indeed, until the Flint Water Crisis became a national and international story, it was rare to hear environmental disparities and injustices acknowledged or to hear the terms “environmental racism” and “environmental justice” in public discourse. I believe the Flint Water Crisis began to change this. In my opinion, it is the most egregious example of environmental injustice in the U.S. in my over 30 years of studying this issue (Mohai 2018).

In 2016, the Flint Water Advisory Task Force, charged with fact-finding concerning with what happened in Flint, recommended that a comprehensive environmental justice plan be

developed for Michigan in order to avoid future Flint crises from happening. In 2017, the Michigan Civil Rights Commission made a similar recommendation. These recommendations were followed by the creation of an Environmental Justice (EJ) Work Group to advise the Governor about developing and implementing such a plan. I served as a member of this Work Group, which began its efforts in April 2017 and worked through February 2018.

In March 2018, the EJ Work Group submitted 33 recommendations for achieving environmental justice in Michigan to then Governor Snyder's Office. Since then, Governor Snyder and newly-elected Governor Whitmer have issued Executive Directives or Orders which have created an Environmental Justice Public Advocate and an Environmental Justice Interagency Work Group composed of the heads of key Michigan agencies, including the State Departments of Environmental Quality (now Department of Environment, Great Lakes, and Energy), Health and Human Services, Civil Rights, and Transportation, and the Michigan Economic Development Corporation.

This was an important step in the right direction, but I believe we need to go much further. First, there are 31 additional recommendations. Furthermore, I am not aware of any environmental justice bills that have been enacted into law, either in Michigan or nationally. State and national laws that explicitly address environmental injustice need to be enacted. They need to be adequately funded and followed-up by the relevant regulatory agencies with well-articulated step-by-step procedures to make certain these laws are fully implemented and enforced. Furthermore, quantitative measures should be developed and annual assessments conducted to determine whether genuine environmental justice improvements are being made.

Until this happens, I believe most current state and federal policies will simply remain declarations of good intentions.

Thank you for this opportunity to provide testimony to the Committee.

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Professor Mohai's teaching and research interests are focused on environmental justice, public opinion and the environment, and influences on environmental policy making. He is a founder of the Environmental Justice Program at the University of Michigan and a major contributor to the growing body of quantitative research examining disproportionate environmental burdens and their impacts on low income and people of color communities. In 1990, he co-organized with Dr. Bunyan Bryant the "Michigan Conference on Race and the Incidence of Environmental Hazards", which was credited by the U.S. Environmental Protection Agency as one of two events bringing the issue of Environmental Justice to the attention of the Agency. He is author or co-author of numerous articles, books, and reports focused on race and the environment, including "Environmental Racism: Reviewing the Evidence", "*Race and the Incidence of Environmental Hazards*", "*Toxic Waste and Race at Twenty*", and "Which Came First, People or Pollution?". His current research involves national level studies examining the causes of environmental disparities and the role environmental factors play in accounting for racial and socioeconomic disparities in health. Through a grant from the Kresge Foundation, he is also examining pollution burdens around public schools and the links between such burdens and student performance and health.

Professor Mohai is a past member of the National Environmental Justice Advisory Council (NEJAC) to the U.S. Environmental Protection Agency (2007-2013). He was a member of the Governor's Environmental Justice Work Group (2017-2018) charged with developing an Environmental Justice Plan for Michigan. He is also currently a member of the Advisory Board of the Global Environmental Justice Movement Project (ENVJUSTICE) which is documenting and mapping environmental justice conflicts around the world. Professor Mohai has provided testimony on environmental justice to the U.S. House of Representatives in 1993 and 1999, the U.S. Senate in 2007, and the Michigan Civil Rights Commission in 2016.

DEGREES RECEIVED

- Ph.D., Pennsylvania State University, University Park, 1983.
Emphasis: Environmental Sociology and Environmental/Natural Resource Policy.
- M.S., SUNY College of Environmental Science & Forestry, Syracuse, 1976.
Emphasis: Statistics and Environmental Science.
- B.A. *With Distinction*, University of California, Berkeley, 1971.
Emphasis: Mathematics.

ACADEMIC POSITIONS HELD

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| 2019 (Fall) | Adjunct Professor, School of Law, University of Michigan, Ann Arbor. |
| 2017-present; 2012-2013 | Environmental Justice Field Coordinator, School for Environment and Sustainability, University of Michigan, Ann Arbor. |
| 2017-2019 | Chair, Promotion & Tenure Committee, School for Environment and Sustainability, University of Michigan, Ann Arbor |
| 2004-present | Professor, School for Environment and Sustainability, University of Michigan, Ann Arbor. |
| 2001-present | Faculty Associate, Institute for Social Research (ISR), University of Michigan, Ann Arbor. |
| 2001-present | Faculty Associate, Program in the Environment (PITE), University of Michigan, Ann Arbor. |
| 2014 (Fall) | Visiting Scholar, Leibniz Research Institute for Environmental Medicine, University of Dusseldorf, Dusseldorf, Germany |
| 1993-2003 | Associate Professor, School of Natural Resources and Environment, University of Michigan, Ann Arbor. |
| 1995-1997 | Chair, Resource Policy and Behavior Concentration, School of Natural Resources and Environment, University of Michigan, Ann Arbor. |
| 1995 (Summer) | Visiting Professor, Department of Rural Sociology, University of Wisconsin, Madison. |
| 1987-1992 | Assistant Professor, School of Natural Resources and Environment, University of Michigan, Ann Arbor. |
| 1983-1987 | Assistant Professor, College of Natural Resources, Utah State University, Logan. |

- 1979-1983 Instructor, School of Forest Resources, Pennsylvania State University, University Park.
- 1977-1979 Research Associate, State University of New York, Syracuse.

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- Mohai, P. 1996. "Environmental Justice or Analytic Justice? Re-examining Historical Hazardous Waste Landfill Siting Patterns in Metropolitan Texas." *Social Science Quarterly* 77(3): 500-507.
- Mohai, P., and P. Jakes. 1996. "The Forest Service in the 1990s: Is It Headed in the Right Direction?" *Journal of Forestry* 94(1): 31-37.
- Farnham, T., and P. Mohai. 1995. "National Forest Timber Management Over the Past Decade: A Change in Emphasis for the Forest Service?" *Policy Studies Journal* 23(2): 268-280.
- Jones, E., and P. Mohai. 1995. "Is the Forest Service Keeping Up with the Times? Interest Group and Forestry School Perceptions of Post-NFMA Change in the United States Forest Service." *Policy Studies Journal* 23(2): 351-371.
- Mohai, P. 1995. "The Demographics of Dumping Revisited: Examining the Impact of Alternate Methodologies in Environmental Justice Research." *Virginia Environmental Law Journal* 13(4): 615-653.
- Mohai, P. 1995. "The Forest Service since the National Forest Management Act: Assessing Bureaucratic Response to External and Internal Forces for Change." *Policy Studies Journal* 23(2): 247-252.
- Thomas, J., and P. Mohai. 1995. "Racial, Gender, and Professional Diversification in the Forest Service from 1983-1992." *Policy Studies Journal* 23(2): 296-309.
- Mohai, P., P. Stillman, P. Jakes, and C. Liggett. 1994. *Change in the U.S. Forest Service - Are We Heading in the Right Direction? (General Technical Report NC-172)*. (St. Paul, MN: USDA Forest Service North Central Forest Experiment Station).
- Ginger, C., and P. Mohai. 1993. "The Role of Data in the EIS Process: Evidence from the BLM Wilderness Review." *Environmental Impact Assessment Review* 13(2): 109-139.
- Mohai, P. 1993. "Environmental Equity." *Environment* 35(7): 2-4
- Bryant, B., and P. Mohai, eds. 1992. *Race and the Incidence of Environmental Hazards: A Time for Discourse* (Boulder, CO: Westview Press).
- Bryant, B., and P. Mohai. 1992. "The Michigan Conference: A Turning Point." *EPA Journal* 18(1): 9-10.
- Mohai, P. 1992. "Men, Women, and the Environment: An Examination of the Gender Gap in Environmental Concern and Activism." *Society & Natural Resources* 5(1): 1-19.

- Mohai, P., and B. Bryant. 1992. "Environmental Racism: Reviewing the Evidence." Pages 163-176 in B. Bryant and P. Mohai, eds., *Race and the Incidence of Environmental Hazards: A Time for Discourse* (Boulder, CO: Westview Press).
- Mohai, P., and B. Bryant. 1992. "Race, Poverty, and the Environment: The Disadvantaged Face Greater Risks." *EPA Journal* 18(1): 6-8.
- Mohai, P., and B. Bryant. 1992. "Environmental Injustice: Weighing Race and Class as Factors in the Distribution of Environmental Hazards." *University of Colorado Law Review* 63(4): 921-932.
- Marans, R. W., and P. Mohai. 1991. "Leisure Resources, Recreation Activity, and the Quality of Life." Pages 351-363 in B. L. Driver, P. J. Brown, and G. L. Peterson, eds., *The Beneficial Consequences of Leisure Activities* (State College, PA: Venture Publishing).
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- Romesburg, H. C., and P. Mohai. 1990. "Improving the Precision of Tree Height Estimates." *Canadian Journal of Forest Research* 20: 1246-1250.
- Edwards, P. J., P. Mohai, H. G. Halverson, and D. R. DeWalle. 1989. "Considerations for Urban Throughfall Chemistry Sample Size Determination." *Forest Science* 35(1): 173-182.
- Kennedy, J. J., and P. Mohai. 1987. "Mentors and Career Development: Analyses Highlight Their Roles and Benefits to Resource Managers in the Forest Service." *Journal of Forestry* 85(12): 23-26.
- Mohai, P. 1987. "Public Participation and Natural Resource Decision Making: The Case of the RARE II Decisions." *Natural Resources Journal* 27(1): 123-155.
- Mohai, P. 1987. "Rational Decision Making in the Planning Process: Some Empirical Evidence from RARE II." *Environmental Law* 17(3): 507-556.
- Mohai, P., and B. W. Twight. 1987. "Age and Environmentalism: An Elaboration of the Buttel Model Using National Survey Evidence." *Social Science Quarterly* 68(4): 798-815.
- Mohai, P., and D. L. Verbyla. 1987. "The RARE II Wilderness Decisions: Did the Data Make A Difference?" *Journal of Forestry* 85(1): 17-23.
(Cover article for the January 1987 issue.)
- Long, J. N., and P. Mohai. 1986. "A Simplified Procedure for Measuring Tree Heights Directly from Slope Distance." *Western Journal of Applied Forestry* 1(2): 58-59.
- Mohai, P. 1985. "Public Concern and Elite Involvement in Environmental-Conservation Issues." *Social Science Quarterly* 66(4): 820-838.

FUNDED PROJECTS

- Hicken, Margaret (PI), Colter Mitchell, Sharon Kardia, Philippa Clarke, Michael Elliott, Paul Mohai, and Kelly Bakulski (co-investigators). 2018-2023. Racial Inequalities in Health throughout Adulthood: The Cumulative Impact of Neighborhood Chemical and Non-Chemical Stressors on Epigenomic Pathways – National Institutes of Health (NIH), \$3,875,706.
- Mohai, Paul (PI), Byoung-Suk Kweon (Co-PI). 2015-2019. School and Air Toxics Risk: Building Michigan School Siting Policy – Kresge Foundation, \$196,557
- Mohai, Paul (PI), Michael Ash (PI), Mary Collins (PI). 2015-2018. Examining the Causes and Consequences of Environmental Inequality over Time: A Data-Driven Computational Approach – National Socio-Environmental Synthesis Center (SESYNC).
- Mohai, Paul (PI), Chingwen Cheng (Co-PI). 2014-2015. Exploring Empirical Evidence for Climate Justice in the Huron River Watershed - Water Center of Graham Sustainability Institute, \$50,000.
- Mohai, Paul (PI), Byoung-Suk Kweon (PI). 2011-2015. Schools and Air Toxics Risk: State and National Policy Development – Kresge Foundation, \$865,000.
- Adar, Sara (PI-Public Health), Sara Gosman (PI-Law), Paul Mohai (PI-Natural Resources & Environment). 2012-2014. School Siting: Environmental Justice, Health, and Law - MCubed Program, University of Michigan, \$60,000.
- Mohai, Paul (PI), James Boyce (PI); Manuel Pastor (PI); Michael Ash (Co-PI). 2011-2014. Collaborative Research on the Correlates and Consequences of Risks from Airborne Toxics: Dynamic Spatial Analysis – National Science Foundation, \$338,548.
- Ellis, Chris (PI), Byoung-Suk Kweon (Co-PI), Paul Mohai (Co-PI). 2010-2011. Urban Forests, Air Toxic Risks and Children's Health: Do Urban Forests Improve the Health of Racially and Socially Vulnerable Children? – McIntire-Stennis Grant, \$30,000.
- Mohai, Paul (PI), Byoung-Suk Kweon (PI). 2008-2011. The Consequences of Exposure to Air Toxics Risk on the School-Aged Population in Michigan – Kresge Foundation, \$485,000.
- Pastor, Manuel (PI), James Boyce (Co-PI), Paul Mohai (Co-PI). 2006-2008. Data and Analysis for Change: Research Consortium for Environmental Justice – Ford Foundation, \$100,000.
- Lantz, Paula (PI), James House (PI), Paul Mohai (Co-Investigator), Jeffrey Morenoff, T. Raghunathan, George Kaplan, James Lepkowski, David Williams. 2005-2009. Understanding Social Disparities in Health and Aging – National Institute on Aging, \$1,568,931.
- Mohai, Paul (PI). 2001-2005. Spatial and Temporal Analyses Applied to Understanding Racial and Socioeconomic Disparities in the Location of Environmental Hazards— National Science Foundation, \$299,844.
- House, J., P. Lantz, M. Musick, D. Williams, J. Morenoff, P. Mohai (Co-Investigator), J. Lepkowski. 2001-2003. Understanding Social Disparities in Health and Aging—Public Health Service, Department of Health and Human Services, \$1,751,368

- Mohai, P., and S. Brechin. 2002- 2003. The 2002 Detroit Area Study Supplement—University of Michigan, \$28,000:
 Dean, School of Natural Resources & Environment, \$7,000;
 Dean, Rackham School of Graduate Studies, \$5,000;
 Office of Vice Provost for Academic and Multicultural Affairs, \$8,000;
 Office of Vice Provost for Research (OVPR), \$8,000.
- Brechin, S., and P. Mohai. 2002- 2003. Environmental Values in Beijing, China: The 2002 Beijing Area Study—University of Illinois, \$10,000.
- Mohai, P., and S. Brechin. 2001-2002. Understanding the Root Causes of Environmental Concern Domestically and Internationally. University of Michigan Detroit Area Study (DAS) Executive Committee—\$200,000.
- Mohai, P. 1998-2001. Understanding Cause and Effect in the Disproportionate Burden of Environmental Hazards in Low-Income and African-American Communities in Michigan and the Great Lakes Region—Michigan State Policy Research Fund, \$100,000.
- Brechin, S., and P. Mohai. 2000. “Exploring Environmental Values through Social Science Research: The Local to the Global.” University of Michigan Distinguished Faculty/Graduate Seminar Fund—\$7500.
- Mohai, P. 1995. The USDA Forest Service in the Post-NFMA Era: An Assessment of Agency Response to Internal and External Forces for Change--U.S.D.A. Forest Service, \$3,000.
- Mohai, P. 1995. Change in the USDA Forest Service--McIntire-Stennis Grant, \$1,350.
- Mohai, P. 1995. Assessing External and Internal Forces for Change in the USDA Forest Service--Office of the Vice President for Research (OVPR), University of Michigan, \$700.
- Mohai, P. and E. Mogren. 1994-1995. Warm Sand: Radioactive Uranium Mining and Milling Waste and Public Policy--Rackham Research Partnership Grant, \$29,064.
- Mohai, P. 1992-1994. Organizational Values and Organizational Change: A Survey and Evaluation of Employees' Perceptions of the U.S.D.A. Forest Service's Mission, Roles, and Program Directions--U.S.D.A. Forest Service (Phase 3), \$30,000.
- Mohai, P. 1992. Organizational Values and Organizational Change: A Survey and Evaluation of Employees' Perceptions of the U.S.D.A. Forest Service's Mission, Roles, and Program Directions--U.S.D.A. Forest Service (Phase 2), \$20,000.
- Mohai, P. 1991-1992. Organizational Values and Organizational Change: A Survey and Evaluation of Employees' Perceptions of the U.S.D.A. Forest Service's Mission, Roles, and Program Directions--U.S.D.A. Forest Service (Phase 1), \$135,000.
- Mohai, P., and B. Bryant. 1990-1991. Race and the Incidence of Environmental Hazards--University of Michigan Office of the Vice Provost for Minority Affairs, \$21,000.

Mohai, P., and B. Bryant. 1989-1990. Race and the Environment--Detroit Area Study (DAS), College of Literature, Science & Arts, University of Michigan, \$132,000.

Mohai, P., and B. Bryant. 1989-1990. Race and the Incidence of Environmental Hazards: Retrieval/Dissemination Working Conference--University of Michigan Office of the Vice President for Research, \$10,000.

Bryant, B., and P. Mohai. 1989-1990. Race and the Incidence of Environmental Hazards: Retrieval/Dissemination Working Conference--University of Michigan Rackham Minority Development Fund, \$16,400.

Mohai, P. Summer 1989. Modelling Public Land Decision Making from Comparative Analyses of Forest Service and BLM Wilderness Reviews--Horace H. Rackham Research Fellowship, \$5,500.

Mohai, P. 1988-1989. Relationships between Leisure and Leisure Environments and Quality of Life/Life Satisfaction--U.S.D.A. Forest Service, \$650.

Mohai, P. 1988-1990. Decision Making on the National Forests and Public Lands: A Comparative Analysis--U.S.D.A. McIntire-Stennis Grant, \$27,728.

Mohai, P. Summer 1988. Analysis of the BLM Wilderness Review--Joint U.S.D.I. Bureau of Land Management/School of Natural Resources, \$3000.

Mohai, P. 1986-1987. Analysis of Models of Agency Decision Making and Their Implications For Natural Resource Policy--Utah State University Faculty Grant, \$6,567.

Mohai, P. 1984-1987. Social Value Preferences as Inputs in National Forest Decision-Making--U.S.D.A. McIntire-Stennis Grant, \$6000.

Mohai, P. 1984-1985. Analysis of Ranking and Budget-Constrained Allocation Items for Use in Determining Priority Weights in Goal Programming Models--Utah State University Faculty Grant, \$5,135.

Schreyer, R., and P. Mohai. 1984-1985. The Impact of a Nuclear Waste Repository on Recreation, Tourism, and National Parks--State of Utah, \$1,000.

INVITED PRESENTATIONS

Mohai, Paul. 2019. "Environmental Justice." Invited Keynote Speaker at the "Environmental Justice and Health Disparities in the U.S." Symposium to be held at the University of Pennsylvania, Philadelphia, PA, October 25, 2019.

Mohai, Paul. 2018. "Environmental Justice in Michigan." Invited panel presentation made at the Michigan Environmental Council, Detroit, MI, October 12, 2018.

Mohai, Paul. 2018. "Organizing the Fight from 'Toxic Waste and Race' to Climate Justice." Invited panel presentation made at the 6th Annual HBCU Climate Change Conference held at the Deep

- South Center for Environmental Justice (DSCEJ), New Orleans, LA, September 21, 2018.
- Mohai, Paul. 2018. "The Intersectionality of Health and the Environment on Education Outcomes." Invited panel presentation made at the New Jersey Urban Mayors Association Education Symposium held at Thomas Edison University, Trenton, NJ, June 21, 2018.
- Mohai, Paul. 2018. "What Is Environmental Justice?" Invited presentation made at the Ann Arbor City Club, Ann Arbor, MI March 14, 2018. <http://www.annarborcityclub.org/paul-mohai.html>
- Mohai, Paul. 2018. "Race, the Environment, and Environmental Justice." Invited presentation made at Inequality in Urban Spaces Panel of *The Other America: Still Separate, Still Unequal* Symposium held at the University of Michigan, Ann Arbor, MI February 19, 2018. <https://events.umich.edu/event/43116>
- Mohai, Paul. 2017. "Environmental Justice." Invited Keynote Speaker at the Annual Meeting of the Michigan Sociological Association, held at Grand Valley State University, Grand Rapids, October 27-28, 2017. <http://www.michigansociology.org/index.html>
- Mohai, Paul, and Joan Martinez-Alier. 2017. "The Pillars of Environmental Justice." Invited co-presentation made with Professor Joan Martinez-Alier at the "Coffee with Teachers" Session held at the Institute for Environmental Science & Technology of the Autonomous University of Barcelona, Barcelona, Spain June 27, 2017. <https://www.youtube.com/watch?v=sren0uyHN3E>
- Mohai, Paul. 2017. "Environmental Justice and the Flint Water Crisis." Invited presentation made at the Annual Conference of the Michigan Chapter of the Association of Hazardous Materials Professionals held at Cleary University, Howell, Michigan, March 30, 2017
- Mohai, Paul. 2017. "African American Concern about Climate Change." Invited presentation made at the Fifth Annual HBCUs and Climate Change Conference held at Dillard University, New Orleans, Louisiana, March 17, 2017.
- Mohai, Paul. 2017. "Organizing and Strategizing to Ensure Environmental Justice." Invited panelist at Flint Environmental Justice Summit, Flint, Michigan, March 10, 2017.
- Mohai, Paul. 2017. "Environmental Justice and the Flint Water Crisis." Invited presentation made at the University of Maryland, March 1, 2017.
- Mohai, Paul. 2017. "Environmental Justice and the Flint Water Crisis." Invited presentation made at Oklahoma State University Toxicology Symposium, February 21, 2017.
- Mohai, Paul. 2016. "Which came first, people or pollution? Assessing the disparate siting and post-siting demographic change hypotheses of environmental injustice." Invited presentation made at the University of Washington Center for Environmental Politics, Seattle, Washington, December 2, 2016.
- Mohai, Paul, and Lee, Sangyun. 2016. "Assessing Racial and Socioeconomic Disparities in Industrial Air Pollution Burdens over the Life Course Using RSEI Geographic Microdata," Invited presentation

made at 2016 National Training Conference on the Toxics Release Inventory and Environmental Conditions in Communities, Washington, D.C., October 20, 2016.

Mohai, Paul. 2016. "TRI at 30 – "EPCRA 30th Anniversary Panel." Invited panelist at 2016 National Training Conference on the Toxics Release Inventory and Environmental Conditions in Communities, Washington, D.C., October 19, 2016.

Mohai, Paul. 2016. "Environmental Justice and the Flint Water Crisis." Invited Presentation made at Mott Community College, Flint, Michigan, October 11, 2016. Simultaneously broadcast to Montgomery College, Rockville, Maryland.

Mohai, Paul. 2016. "Data-Driven Research for Environmental Justice". Invited presentation made at Georgia Tech University, Atlanta, Georgia, September 27, 2016.

Mohai, Paul. 2016. "Data-Driven Research for Environmental Justice". Invited presentation made at Spelman College, Atlanta, Georgia, September 26, 2016.

Mohai, Paul. 2016. "Environmental Justice and the Flint Water Crisis." Invited to provide oral and written testimony to the Michigan Civil Rights Commission (MCRC) at hearings held in Flint, Michigan, September 8, 2016.

Mohai, Paul. 2016. "The Consequences of Socioeconomic Disparities in the Incidence of Air Pollution around Public Schools in the Great Lakes Region of the U.S." Invited presentation made at Institute for Social Ecology, Alpen-Adria University, Vienna, Austria, June 22, 2016.

Mohai, Paul. 2016. "The Environmental Justice Dimensions of the Flint Water Crisis." Invited presentation made at the Institute for Journalism & Natural Resources Workshop held in Detroit, April 4, 2016.

Mohai, Paul, and Robin Saha. 2016. "Which Came First, People or Pollution?" Invited presentation made at the *Fourth Annual HBCUs and Climate Change Conference* held at Dillard University, New Orleans, Louisiana, April 1, 2016.

Mohai, Paul. 2015. "Environmental Injustice in Southwest Detroit." Invited presentation made at the Semester in Detroit Speakers Series, University of Michigan Center, Detroit, October 29, 2015.

Mohai, Paul. 2015. "Which came first, people or pollution? Assessing the disparate siting and post-siting demographic change hypotheses of environmental injustice." Invited presentation made at the Environmental Justice Analysis Seminar Series of the U.S. Environmental Protection Agency, Washington, D.C., October 14, 2015.

Mohai, Paul, Byoung-Suk Kweon, and Sangyun Lee. 2015. "Environmental Justice and Schools in Louisiana." Invited presentation made at the *Third Annual HBCUs and Climate Change Conference* held at Dillard University, New Orleans, Louisiana, March 26-29, 2015.

Mohai, Paul. 2014. "Which Came First, People or Pollution? How Race and Socioeconomic Status Affect Environmental Justice." Invited presentation made at the Institute for Social Ecology at Alpen-Adria University, Vienna, Austria, December 8, 2014.

- Mohai, Paul. 2014. "Environmental Justice." Invited presentation made at the Leibniz Research Institute for Environmental Medicine at the University of Dusseldorf, Dusseldorf, Germany, November 6, 2014.
- Mohai, Paul. 2014. "Which Came First, People or Pollution? How Race and Socioeconomic Status Affect Environmental Justice." Invited presentation made at the Institute for Environmental Science and Technology at the Autonomous University of Barcelona, Barcelona, Spain, October 9, 2014.
- Mohai, Paul, Byoung-Suk Kweon, Sangyun Lee. 2014. "The Consequences of Racial and Socioeconomic Disparities in the Distribution of Air Pollution around Public Schools in the Great Lakes Region." Invited presentation made at the *Annual Conference of the International Society for Environmental Epidemiology (ISEE)* held in Seattle, Washington, August 24-28, 2014.
- Mohai, Paul, and Robin Saha. 2014. "Which Came First, People or Pollution? Assessing the Disparate Siting and Post-Siting Demographic Change Hypotheses of Environmental Injustice." Invited presentation made at the *Annual Meeting of the American Sociological Association (ASA)* held in San Francisco, California, August 16-19, 2014.
- Mohai, Paul, Byoung-Suk Kweon, Chingwen Cheng, and Sangyun Lee. 2014. "Environmental Justice and Schools in Harris County, Texas." Invited presentation made at the *Second Annual HBCUs and Climate Change Conference* held at Dillard University, New Orleans, Louisiana, April 17-19, 2014.
- Mohai, Paul. 2014. "History of Environmental Justice in the United States." Invited presentations made at the *EJOLT and ENTITLE Conferences* held at Lund University, Lund, Sweden, March 27-31, 2014.
- Mohai, Paul. 2014. "Celebrating the 20th Anniversary of the Signing of the Executive Order for Environmental Justice." Invited presentation made at the U.S. EPA's Office of Transportation and Air Quality Brown Bag Series in Ann Arbor, Michigan, March 3, 2014.
- Mohai, Paul. 2013. "Urban Environments, Environmental Justice, and the School-Aged Population." Invited Keynote presentation made at the *Annual Meeting of the Association of Environmental Studies and Sciences (AESS)* held in Pittsburgh, Pennsylvania, June 19-22, 2013.
- Mohai, Paul. 2013. "Air Pollution, Environmental Justice, and Schools." Invited presentation made at the *Conference on Climate Change and Community Resilience: Bridging the Gap between Climate Change Theory and Experience* held April 4-6, 2013 at Dillard University's Deep South Center for Environmental Justice (DSCEJ) in New Orleans, LA.
- Mohai, Paul, Byoung-Suk Kweon and Sangyun Lee. 2013. "Air Toxics Risk and the School-Aged Population in Michigan." Invited presentation made at the Detroit School Board Open Meeting held February 14 at Western International High School in Detroit, MI.
- Mohai, Paul, Byoung-Suk Kweon and Sangyun Lee. 2012. "Air Toxics Risk and the School-Aged Population in Michigan and the Detroit Area." Invited presentation made at the Southeast

Michigan Chapter of the Sierra Club's Monthly Speaker Series held November 1 in Bloomfield Hills, MI.

Mohai, Paul, Byoung-Suk Kweon and Sangyun Lee. 2012. "Air Toxics Risk and the School-Aged Population in Michigan and the Detroit Area." Invited presentation made at the U.S. Environmental Protection Agency's Office of Air Quality Planning and Standards (OAQPS) August 8 in Research Triangle Park, NC.

Mohai, Paul, Byoung-Suk Kweon, and Sangyun Lee. 2012. "Understanding the Effects of Air Pollution around Schools on Students' Academic Performance." Invited presentation made at Annual Meeting of the American College of Preventive Medicine (ACPM) held in February in Orlando, Florida.

Mohai, Paul, Byoung-Suk Kweon, and Sangyun Lee. 2011. "Environmental Justice and the School-Aged Population." Invited presentation made at the 2011 Environmental Justice Conference ("One Community-One Environment") held in August in Detroit.

Mohai, Paul. 2011. "Environmental Justice." Invited presentation made at the University of Brasilia, Brasilia, Brazil, June 20, 2011.

Mohai, Paul, Byoung-Suk Kweon, Sangyun Lee, and Kerry Ard. 2011. "Air Pollution around Schools Is Linked to Poorer Student Health and Academic Performance." Invited presentation made at the *Health Affairs* Briefing on "Environmental Challenges for Health" held in Washington, D.C., May 4, 2011.

Kweon, Byoung-Suk, Paul Mohai, Sangyun Lee, and Kerry Ard. 2011. "School Siting Policies in the U.S." Invited presentation made at the *Health Affairs* Briefing on "Environmental Challenges for Health" held in Washington, D.C., May 4, 2011.

Mohai, Paul. 2010. "Environmental Justice and the School-Aged Population." Invited presentation made at the Institute of Medicine (IOM) Roundtable on Environmental Health Sciences, Research and Medicine held in Washington, D.C., November 15, 2010.

Mohai, Paul, and Sangyun Lee. 2010. "Demographic and Resource Allocation Assessments for New Orleans Planning Districts." Invited presentation made at the Deep South Center for Environmental Justice (DSCEJ) Public Policy Task Force Research Roundtable held at Dillard University in New Orleans, LA, July 6, 2010.

Mohai, Paul, and Byoung-Suk Kweon. 2010. "Environmental Justice and the School-Aged Population." Invited presentation made at the Deep South Center for Environmental Justice (DSCEJ) Public Policy Task Force Research Roundtable held at Dillard University in New Orleans, LA, April 14-15, 2010.

Mohai, Paul. 2010. "Green Jobs, Clean Industries, and Healthy Schools." Invited presentation made at the Conference on Environmental Justice, Air Quality, Goods Movement, and Green Jobs held in New Orleans, LA, January 26-27, 2010. Sponsored by the U.S. Environmental Protection Agency (EPA), Dillard University, and the National Institute of Environmental Health Sciences (NIEHS).

- Mohai, Paul. 2009. "Racial and Socioeconomic Disparities in the Distribution of Environmental Hazards." Invited presentation made at the University of Vermont School of Natural Resources, Burlington, VT, October 20, 2009.
- Mohai, Paul. 2009. "Which Came First? People or Pollution?" Invited presentation delivered at Indiana University School of Public and Environmental Affairs, Bloomington, IN, April 23, 2009.
- Mohai, Paul. 2008. "Environmental Justice: How Race and Socioeconomic Status Affect Disparities in the Distribution of Environmental Hazards" Invited presentation delivered at the City University of New York (CUNY), Brooklyn, NY, October 31, 2008.
- Mohai, Paul, Steven R. Brechin, and Solange Simoes. 2007. "Socialization, Context, and Values: A Comparison of Effects on Environmental Attitudes and Behavior in Beijing and Detroit Metro Areas." Invited presentation made at the 2007 Beijing International Conference on Environmental Sociology held in Beijing, China, June 29-July 1, 2007.
- Mohai, Paul. 2007. "Geographic Information Systems (GIS) Approaches for Environmental Justice Research." Invited presentation made at the 2007 International Conference on Environmental Policy for Low-income People in Urban Areas held in Seoul, Korea, November 1-2, 2007.
- Mohai, Paul. 2007. "Assessing and Refining the CSO National Survey." Invited presentation made at the Workshop for Coastal Managers held at the Hall of the States in Washington, D.C., March 5, 2007.
- Mohai, Paul. 2006. "Which Came First, People or Pollution? How Race and Socioeconomic Status Affect Environmental Justice." 2006. Invited presentation made at the Critical Issues Seminar Series and Equity and Environment Colloquium at the University of California, Santa Barbara, April 24, 2006.
- Mohai, Paul. 2005. "African Americans and the Environment." Invited presentation made at the Environmental Studies Seminar Series at Emory University, Atlanta, Georgia, October 20, 2005.
- Mohai, Paul. 2005. "Dispelling Old Myths: African American Concern for the Environment." Invited presentation made in conjunction with the Wilderness Society's "Keeping It Wild" speaker series and Spellman College, Atlanta, Georgia, October 19, 2005.
- Mohai, P. 2005. "Demographic Disparities in the Distribution of Hazardous Sites." Invited presentation made at the University of Western Ontario, London, Ontario, October 7, 2005.
- Mohai, P. 2005. "Demographic Disparities in the Distribution of Hazardous Sites." Invited paper presented at the Conference on Hispanic Perspectives on Agricultural and Natural Resource Issues, held at the University of Texas, San Antonio, May 22-24, 2005.
- Mohai, P. 2004. "Environmental Justice and Hazardous Waste Sites - Improved Measurements of Demographic Disparities." Invited presentation made at the Environmental Institute of the University of Massachusetts, Amherst, October 27, 2004.

- Mohai, P. 2003. "African American Concern for the Environment." Invited presentation made at the Department of Urban and Regional Planning , Jackson State University, Jackson, Mississippi October 2003.
- Mohai, P. 2002. "The Case for Environmental Justice: Understanding Social Disparities in the Location of Environmental Hazards." Invited presentation made at the Sociology in Progress Lecture Series, University of Colorado, Boulder, April 2002.
- Mohai, P. 2001. "Understanding Racial and Socioeconomic Disparities in the Location of Environmental Hazards." Invited presentation made at the Environmental Justice Forum of the Institute for Environmental Studies at the University of Wisconsin, Madison, June 2001.
- Mohai, P. 2001. "Environmental Justice." Invited presentation made at the Environmental Distinguished Lecture Series at Carnegie-Mellon University, Pittsburgh, Pennsylvania, April 2001.
- Mohai, P. 2000 "Research Methods and Tools for Assessing Disparate Impact." Invited paper presented at a special panel on environmental justice at the 2000 Annual Meeting of the American Sociological Association held in Washington, D.C., August 2000.
- Mohai, P. 2000 "Race and Environmental Voting in the U.S. Congress." Invited paper presented at a special panel on environmental sociology at the 2000 Annual Meeting of the American Sociological Association held in Washington, D.C., August 2000.
- Mohai, P. 2000. "Environmental Values." Invited presentation made at the Pellston Workshop on Environmental-Human Interconnections sponsored by the Society of Environmental Toxicology & Chemistry, held in Snowbird, Utah, June 2000.
- Mohai, P. 1999. " What Is a Disparate Impact?" Invited paper presented at a special panel on environmental justice at the 1999 Annual Meeting of the American Sociological Association held in Chicago, August 1999.
- Mohai, P. 1998. "Varying the Methods, Varying the Outcomes: Coming to an Understanding of the Impact of Methodological Choices in Environmental Justice Research." Invited paper presented at the Conference of the International Society of Ecological Economists held in Santiago, Chile, November 1998.
- Mohai, P. 1998. "Methodological Issues in Environmental Justice Research." Invited paper presented at the 1998 Annual Meeting of the American Sociological Association held in San Francisco, August 1998.
- Mohai, P. 1996. "Environmental Racism Issues." Invited presentation made at the 5th Annual Livable Communities Conference sponsored by the Urban Affairs Program, Michigan State University, East Lansing, Michigan, September 13, 1996.
- Mohai, P. 1996. "Environmental Justice: Evidence and Explanations." Invited presentation made at the Nicholas School of the Environment, Duke University, Durham, North Carolina, March 4, 1996.

- Mohai, P. 1995. "Addressing Methodological Issues in Environmental Justice Research." Invited paper presented at the Conference on "Environmental Justice: The New Wave" held at the Harvard University Law School, Cambridge, Massachusetts, April 1995.
- Mohai, P. 1995. "Environmental Justice: Reviewing the Evidence and Methodological Concerns." Invited presentation made at the College of Agriculture, Michigan State University, East Lansing, Michigan, April 1995.
- Mohai, P. 1994. "Environmental Racism: How Strong Is the Case for It?" Invited presentation made at the Department of Forest Resources, University of Illinois, Champaign-Urbana, October 21, 1994.
- Mohai, P. 1994. "Race and the Environment." Invited presentation made of at the School of Natural Resources, University of Vermont, Burlington, October 13, 1994.
- Mohai, P. 1994. "Methodological Issues in Environmental Justice Research." Invited presentation made at the National Governors' Association Workshop on Environmental Justice held in Washington, D.C., October 7, 1994.
- Mohai, P. 1994. "Environmental Injustice: Examining Alternative Explanations." Invited paper presented at the 1994 Meeting of the American Sociological Association in Los Angeles, California, August 1994.
- Mohai, P. 1994. "Race and the Environment." Invited presentation made at the Symposium on Environmental Justice held at the Wayne State University School of Law, Detroit, Michigan, April 6, 1994.
- Mohai, P. 1993. ""Environmental Injustice: Theory and Evidence." Invited presentation made at the 1993 Quinn, Ward, & Kershaw Environmental Symposium, University of Maryland School of Law, Baltimore, Maryland, April 2, 1993.
- Mohai, P. 1992. "Change in the USDA Forest Service." Invited to present results of the University of Michigan Forest Service Survey to USDA Forest Service Chief Dale Robertson and Staff in Washington, D.C., December 21, 1992.
- Mohai, P. 1992. "Assessing Multidimensionality in Concern for Environmental Quality." Invited paper presented at the 6th Meeting of the Society for Human Ecology in Snowbird, Utah, October 1992.
- Mohai, P., and B. Bryant. 1992. "Race and Environment in the Detroit Area." Invited paper presented at the 1992 Meeting of the American Association for the Advancement of Science (AAAS) in Chicago. Abstracted in *AAAS*92 Program/Abstracts: The 158th National Meeting of the American Association for the Advancement of Science: 147-148*.
- Mohai, P., and B. Bryant. 1992. "Environmental Racism: Reviewing the Evidence." Invited paper presented at the University of Michigan Law School Symposium on Race, Poverty, and the Environment held in Ann Arbor, January 1992.

Ginger, C., and P. Mohai. 1991. "The Role of Data in the Wilderness EIS Process: A Comparative Analysis of the BLM and the U.S. Forest Service." Invited paper presented at the 1991 Meeting of the Western Political Science Association in Seattle.

Mohai, P., and B. Bryant. 1991. "Environmental Inequities and the Inner City." Invited paper presented at the 6th Annual Technological Literacy Conference of the National Association for Science, Technology & Society in Washington, D.C., February 1991.

Mohai, P., and B. Bryant. 1991. "Race, Class, and Environmental Quality in the Detroit Area." Invited paper presented at the University of Michigan's Martin Luther King Day Celebration held in Ann Arbor, January 1991. Published pages 42-46 in B. Bryant and P. Mohai, eds., *Environmental Racism: Issues and Dilemmas* (Ann Arbor, MI: University of Michigan Office of Minority Affairs).

Marans, R. W., and P. Mohai. 1989. "Leisure Resources, Recreation Activity, and the Quality of Life." Invited paper presented at the Benefits of Leisure Workshop (U.S.D.A. Forest Service, sponsor), held at Snowbird, Utah, May 1989.

Mohai, P. 1988. "Addressing Environmental Racism." Invited presentation made on a panel entitled "At the Social and Environmental Interface: The Next 50 Years" at the 1988 Meeting of the Rural Sociological Society held in Athens, Georgia, August, 1988.

OTHER SELECTED CONFERENCE PRESENTATIONS

Mohai, Paul, Collins, Mary, Ash, Michael. 2018. "Environmental Justice Analyses with RSEI-GM." Co-organized workshop with Prof. Mary Collins (SUNY Syracuse) and Prof. Michael Ash (U of Massachusetts) on research applications of the U.S. EPA's Risk Screening Environmental Indicators Geographic Microdata (RSEI-GM) held at the National Socio-Environmental Synthesis Center (SESYNC) in Annapolis, MD February 23-24, 2018.

Mohai, Paul, Byoung-Suk Kweon, and Dawn Nelson. 2016. "The Fourth Conference on Developing Policy on Environmental, Quality, Schools, and Health in Michigan." Co-organized and co-moderated a gathering of a diverse group of approximately 50 government leaders, experts, professionals, community leaders, and other stakeholders to discuss the formulation of a state-wide policy to address environmental quality and school siting issues in Michigan. The conference was held in the Dana Building, May 25, 2016.

Mohai, Paul, and Sangyun Lee. "Racial Disparities in Air Pollution Burdens from Industrial Sources over the Life Course: Evidence from the Americans Changing Lives Study." Presentation made at the RSEI-GM Consortium Workshop held at the National Socio-Environmental Synthesis Center (SESYNC), Annapolis, Maryland, August 10, 2015.

Mohai, Paul, Byoung-Suk Kweon, and Dawn Nelson. 2015. "The Third Conference on Developing Policy on Environmental, Quality, Schools, and Health in Michigan." Co-organized and co-moderated a gathering of a diverse group of approximately 50 government leaders, experts, professionals, community leaders, and other stakeholders to discuss the formulation of a state-wide policy to address environmental quality and school siting issues in Michigan. The conference was held in the Dana Building, January 30, 2015.

- Colsa, Alejandro, Bernadette Grafton, Katy Hintzen, Sara Orvis, and Paul Mohai, Rebecca Hardin,. 2014. "The 40 Most Influential Environmental Justice Conflicts in U.S. History: Mapping and Analyzing EJ around the World." Presentation made at the *Michigan Environmental Justice Summit* held in East Lansing, Michigan, September 12, 2014.
- Mohai, Paul, Byoung-Suk Kweon, and David Fukuzawa. 2014. "The Second Conference on Developing Policy on Environmental, Quality, Schools, and Health in Michigan." Co-organized and co-moderated a gathering of a diverse group of approximately 50 government leaders, experts, professionals, community leaders, and other stakeholders to discuss the formulation of a state-wide policy to address environmental quality and school siting issues in Michigan. The conference was held in the Dana Building, May 16, 2014.
- Mohai, Paul, Byoung-Suk Kweon, Sangyun Lee, and Chingwen Cheng. 2014. "Examining the Links between Air Toxics Risk and Academic Performance in the Great Lakes Region Using the TRI." Paper presented at the *National Training Conference on the Toxic Release Inventory (TRI) and Environmental Conditions in Communities* held in Arlington, Virginia, May 6-9, 2014.
- Mohai, Paul, and Sangyun Lee. 2014. "Longitudinal Analysis of Racial and Socioeconomic Disparities in Air Pollution Burdens Using the Americans Changing Lives Survey." Presentation made at the Environmental Justice / RSEI Working Group Symposium held at the University of Southern California, Los Angeles, California, February 6-8, 2014.
- Kweon, Byoung-Suk, and Paul Mohai. 2014. "Environmental Justice and Schools in Maryland". Presentation made at the Environmental Justice / RSEI Working Group Symposium held at the University of Southern California, Los Angeles, California, February 6-8, 2014.
- Shepard, Peggy, and Paul Mohai. 2013. "Recommendations for Integrating Environmental Justice into the EPA's Research Enterprise." Presentation made at the National Meeting of the U.S. EPA's National Environmental Justice Advisory Council (NEJAC) held in Atlanta, Georgia, September 12, 2013.
- Mohai, Paul, and Byoung-Suk Kweon. 2013. "Air Pollution Risks and the School-Aged Population in Michigan" Presentation made at the Michigan Department of Community Health (MDCH) Brown Bag Series held in Lansing, Michigan, July 24, 2013.
- Kweon, Byoung-Suk, Paul Mohai and Sangyun Lee. 2013. "The Impact of Locating Schools near Major Roadways and Industrial Facilities." Presentation made at the *Environmental Design Research Association Conference 44: Health + Healing Places* held May 29-June 1 in Providence, RI.
- Mohai, Paul, Byoung-Suk Kweon and Sangyun Lee. 2013. "Air Pollution Risks and the School-Aged Population in Michigan." Presentation made at the Michigan Conference on Environmental Quality, Schools, and Health held May 10-11 in the School of Natural Resources and Environment, University of Michigan, Ann Arbor.
- Marin, Amy, Byoung-Suk Kweon, Paul Mohai and Sangyun Lee. 2013. "School Siting Policies: Identifying a Healthy and Safe Learning Environment." Presentation made at the *Council of*

Educators in Landscape Architecture Conference: Space/Time, Place/Duration held March 27-30 in Austin, TX.

Kweon, Byoung-Suk, Paul Mohai, and Sangyun Lee. 2012. "Environmental Justice and Schools in Maryland." Presentation made at the First Annual Symposium on Environmental Justice and Health Disparities in Maryland and DC held December 1 at the University of Maryland, College Park, MD.

Saha, Robin, and Paul Mohai. 2011. "Toxic Wastes, Race and Class in the United States: Intersectionalities of Race and Class in Hazardous Waste Location." Presentation made at the Annual Meeting of the Rural Sociological Society (RSS) held in July in Boise, Idaho.

Mohai, Paul, Byoung-Suk Kweon, and Sangyun Lee. 2011. "Environmental Justice and the School-Aged Population." Presentation made at the Annual Meeting of the Rural Sociological Society (RSS) held in July in Boise, Idaho.

Mohai, Paul, and Byoung-Suk Kweon. 2010. "Analyzing Air Toxics Risk on the School-Aged Population in Michigan Using TRI and NATA." Presentation made at the 2010 National Training Conference on the Toxics Release Inventory (TRI) and Environmental Conditions in Communities held in Washington, D.C., November 2, 2010.

Lee, Sangyun, Paul Mohai, and Byoung-Suk Kweon. 2010. "Comparing TRI Emission Estimates with the National Air Toxics Assessment and Air Quality Monitoring." Presentation made at the 2010 National Training Conference on the Toxics Release Inventory (TRI) and Environmental Conditions in Communities held in Washington, D.C., November 2, 2010.

Mohai, Paul, Solange Simoes, and Steven R. Brechin. 2010. "Environmental Concerns, Values, and Meanings in the Beijing and Detroit Metropolitan Areas." Presentation made at the Annual Meeting of the Rural Sociological Society held in Atlanta, GA, August 15, 2010.

Mohai, Paul, Solange Simoes, Steven R. Brechin. 2009 "Environmental Concerns, Values, and Meanings in the Beijing and Detroit Metropolitan Areas." Paper presented at 2009 Meeting of the International Symposium on Society and Resource Management held in Vienna, Austria, July 5-8, 2009.

Mohai, Paul, Paula Lanz, Jeff Morenoff, James House, and Richard P. Mero. 2008. "Racial and Socioeconomic Disparities in Residential Proximity to Polluting Industrial Facilities: Evidence from the Americans' Changing Lives Study." Paper presented at the 2008 Annual Meeting of the American Sociological Association, held in Boston, MA, August 2008.

Brechin, Steven R., Susan Borker, Paul Mohai, and Solange Simoes. 2008. "Gender and Environmental Attitudes and Values on Three Continents: A Comparative Study of Detroit, USA, Belo Horizonte, Brazil, and Beijing, China." Paper presented at the 2008 International Sociological Association (ISA) Forum, held in Barcelona, Spain, September, 2008.

Ard, Kerry Joy, and Paul Mohai. 2007. "Hispanic Representatives and Environmental Voting in the U.S. Congress." Presentation made at the Annual Meeting of the American Sociological Association held in New York, August 11-14, 2007.

Bullard, Robert D., Paul Mohai, Robin Saha, and Beverly Wright. 2007. "Toxic Wastes and Race at Twenty: Grassroots Struggles to Dismantle Environmental Racism." Presentation made at the United States Social Forum held in Atlanta, Georgia, June 27-July 1, 2007. (Presentation made on behalf of co-authors by Prof. Bullard.)

Bullard, Robert D., Paul Mohai, Robin Saha, and Beverly Wright. 2007. *Toxic Wastes and Race at Twenty 1987-2007: Grassroots Struggles to Dismantle Environmental Racism in the United States*. Press conference releasing the 20th anniversary UCC report held at the National Press Club in Washington, D.C., March 22, 2007. Invited by the United Church of Christ (UCC) Justice and Witness Ministry.

Mohai, Paul, and Robert D. Bullard. 2007. Organized panel entitled *Environmental Justice Twenty Years after 'Toxic Wastes and Race'* for the Annual Meeting of the American Association for the Advancement of Science (AAAS) held in San Francisco February 17, 2007.

Mohai, Paul, and Robin Saha. 2007. "Which Came First, People or Pollution? How Race and Socioeconomic Status Affect Environmental Justice." Paper presented at the Annual Meeting of the American Association for the Advancement of Science (AAAS) held in San Francisco February 17, 2007.

Mohai, Paul, and Robin Saha. 2007. "Toxic Wastes and Race at Twenty 1987-2007: Grassroots Struggles to Dismantle Environmental Racism in the United States." Principal findings of report presented at the "State of Environmental Justice in America" Conference held at Howard University in Washington, D.C., March 30, 2007.

Saha, Robin, and Paul Mohai. 2007. "A Current Reappraisal of Toxic Waste and Race in America: The Demographics of Dumping in the 21st Century." Paper presented at the Annual Meeting of the American Association for the Advancement of Science (AAAS) held in San Francisco February 17, 2007.

Mohai, Paul. 2006. Organized panel entitled "Environment and Behavior in the Domestic and International Contexts" for the 2006 Annual Meeting of the Rural Sociological Society (RSS) held in Louisville, Kentucky, August 11, 2006.

Ard, Kerry Joy, and Paul Mohai. 2006. "Hispanics and Environmental Voting in the U.S. Congress." Paper presented at the Annual Meeting of the Rural Sociological Society held in Louisville, Kentucky, August 11, 2006.

Sharma, Jasneet, and Paul Mohai. 2006. "Behaving Ourselves to Save the World: A Comparison of Environmental Behaviors across Differently Developed Countries." Paper presented at the Annual Meeting of the Rural Sociological Society held in Louisville, Kentucky, August 12, 2006.

Brechin, S. R., D. Owens-Nicholson, P. Mohai, S. Simoes. 2005. "Postmaterialism & Environmentalism: A Theoretical Dead End?" Paper presented at the Annual Meeting of the American Sociological Association, Philadelphia, Pennsylvania, August 2005.

- Mohai, P., and R. Saha. 2005. "Race, Class, and the Incidence of Environmental Hazards: Evaluating Environmental Inequality by Taking True Hazard Location and Proximity to Nearby Populations into Account." Paper presented at the Annual Meeting of the Rural Sociological Society, Tampa, Florida, August 2005.
- Saha, R., and P. Mohai 2005. "A Current Reappraisal of the Demographics of Dumping." Paper presented at the Annual Meeting of the Rural Sociological Society, Tampa, Florida, August 2005.
- Mohai, P., and R. Saha. 2005. "Reassessing Race and Class Disparities in the Distribution of Hazardous Waste Treatment, Storage, and Disposal Facilities." Paper presented at the International Conference on the Social Context of Waste Management held in Edmonton, Alberta, May 11-14, 2005.
- Saha, R., and P. Mohai 2005. "Understanding and Addressing Racial And Socioeconomic Disparities in Waste Facility Locations." Paper presented at the International Conference on the Social Context of Waste Management held in Edmonton, Alberta, May 11-14, 2005.
- Mohai, P., S. Simoes, and S. Brechin. 2004. "Socialization, Context, and Values As Predictors of Environmental Attitudes and Action: A Comparative Analysis of Belo Horizonte and the Detroit Metro Area." Paper presented at the Annual Meeting of the Brazilian Association of Graduate Studies and Research on Environment and Society held in Indaiatuba, Brazil, May 2004.
- Mohai, P., and R. Saha. 2003. "Reassessing Race and Class Disparities in Environmental Justice Research Using Distance-Based Methods." Presented at the Annual Meeting of the American Sociological Association held in Atlanta, Georgia, August 2003.
- Saha, R., and P. Mohai. 2003. "Historic Context and the Siting of Hazardous Waste Facilities: Understanding Temporal Trends in Discriminatory Siting in Michigan." Presented at the Annual Meeting of the American Sociological Association held in Atlanta, Georgia, August 2003.
- Simoes, S., P. Mohai, and S. Brechin. 2003. "Globalizing the Local and Localizing the Global: The Links between Global and Local in Environmental Awareness and in Support for International Treaties." Paper presented at the Open Meeting of the Human Dimensions of Global Environmental Change Research Community held in Montreal, Canada, October 2003.
- Kershner, D. and P. Mohai. 1997. "Explaining the Environmental Voting Behavior of Blacks in the U.S. Congress: Evidence of a Race Effect?" Paper presented at the 1997 Annual Meeting of the Rural Sociological Society held in Toronto, August 1997.
- Mohai, P. 1997. "Gender Differences in Concern about the Environment Revisited." Paper presented at the 1997 Annual Meeting of the Rural Sociological Society held in Toronto, August 1997.
- Saha, R. and P. Mohai. 1997. "Explaining Race and Income Disparities in the Location of Locally Unwanted Land Uses: A Conceptual Framework." Paper presented at the 1997 Annual Meeting of the Rural Sociological Society held in Toronto, August 1997.

- Mohai, P., and B. Bryant. 1996. "Is There a 'Race' Effect on Concern for Environmental Quality?" Paper presented at the 1996 Meeting of the Rural Sociological Society held in Des Moines, Iowa, August 1996.
- Mohai, P., P. Stillman, P. Jakes, and C. Liggett. 1993. "Are We Heading in the Right Direction? A Survey of USDA Forest Service Employees." Paper presented at the 1993 Society of American Foresters' Convention in Indianapolis, November 10, 1993.
- Mohai, P., P. Stillman, P. Jakes, and C. Liggett. 1993. "Assessing the Impacts of Gender, Race, and Professional Training on Forest Service Attitudes and Perceptions." Paper presented at the 1993 Society of American Foresters' Convention in Indianapolis, November 10, 1993.
- Ginger, C., and P. Mohai. 1992. "Data in the EIS Process and Its Relation to Agency Decisions: Evidence from the BLM Wilderness Review." Paper presented at the Fourth Social Science in Resource Management Symposium held in Madison, Wisconsin, and abstracted in the Proceedings.
- Mohai, P., and B. Bryant. 1992. "Race and Class as Factors in the Distribution of Environmental Hazards." Paper presented at the 1992 Meeting of the Rural Sociological Society in State College, Pennsylvania, August 1992. Abstracted in *Sociological Abstracts* (August 1992, Supplement 168): 12.
- Mohai, P., and B. Bryant. 1992. "Racial Differences in the Perception of Most Important Environmental Problems." Paper presented at the 1992 Meeting of the American Sociological Association in Pittsburgh, Pennsylvania, August 1992. Abstracted in *Sociological Abstracts* (August 1992, Supplement 170): 92.
- Mohai, P. 1991. "Gender Differences in Environmentalism: Evidence from a National Survey." Paper presented at the 1991 Meeting of the Rural Sociological Society in Columbus, Ohio, August, 1991. Abstracted in *Sociological Abstracts* (August 1991, Supplement 165): 17.
- Mohai, P. 1990. "Black and White Differences in Environmental Concern and Activism: Evidence from a National Survey." Paper presented at the 1990 Meeting of the Rural Sociological Society in Norfolk, Virginia. Abstracted in *Sociological Abstracts* 38 (Number 6; Supplement 161): 328.
- Mohai, P., and B. W. Twight. 1987. "Age, Social Integration, and Concern for the Environment." Paper presented at the 1987 Meeting of the Rural Sociological Society in Madison, Wisconsin. Abstracted in Sociological Abstracts 35 (Number 3; Supplement 148): 94.
- Mohai, P. 1986. "Influence of Public Participation on Forest Service Decisions: Evidence from RARE II." Paper presented at the Social Science in Resource Management Symposium held in Corvallis, Oregon and abstracted in the proceedings, P.183.
- Mohai, P., and B. W. Twight. 1986. "Rural-Urban Differences in Environmentalism Revisited: Nature Manipulative vs Nature Exploitative Orientations." Paper presented at the 1986 Meeting of the Rural Sociological Society in Salt Lake City. Abstracted in Sociological Abstracts 34 (Number 3; Supplement 142): 228-229.

Mohai, P. 1984. "A Case for Environmental Non-Elitism: An Analysis of Social Movement Participation through Integration of Social Psychological and Resource Mobilization Perspectives." Paper presented at the 1984 Meeting of the American Sociological Association in San Antonio, Texas and abstracted in the 1984 Annual Proceedings, p. 129. Also abstracted in Sociological Abstracts 32 (Number 5): 1629-1630.

WEBINARS

Mohai, Paul. 2010. "Key Policy Challenges in Achieving Environmental Justice." Invited presentation made to the National Bar Association via national webcast focused on "Environmental Justice: Looking Forward", May 27, 2010.

Mohai, Paul, and Byoung-Suk Kweon. 2010. "Air Pollution Concentrations outside Schools." Invited presentation made to the National Healthy Schools Network, April 27, 2010.

Mohai, Paul, and Byoung-Suk Kweon. 2010. "Air Pollution Concentrations around Schools in Michigan." Invited presentation made to the U.S. Environmental Protection Agency's (USEPA) Office of Air Quality and Planning Standards (OAQPS), March 17, 2010.

COURSES TAUGHT SINCE 2001

NRE 210/ENV 210 Introduction to Environmental Policy Making; ENV 345/POLSC 331/SOC 380 Environmental Public Opinion Analysis; NRE 501/ SOC 512 Survey Research Methods (Detroit Area Study); NRE 501/SOC 513 Analysis of Survey Data (Detroit Area Study); NRE 566 Public Opinion and the Environment; NRE 677 Environmental Justice and Health; NRE 677 Environmental Quality, Schools, and Health; EAS 593 Environmental Justice; EAS 677 Environmental Justice in the U.S. and Europe.

MASTERS PROJECTS SUPERVISED SINCE 2010

NRE 701 (2012) Environmental Quality, Schools, and Health;

NRE 701 (2014) Environmental Justice Organizations, Liability, and Trade (EJOLT): Mapping Environmental Conflicts in the U.S.

NRE 701 (2016) Improving Institutional Access to Energy-Reduction Incentives through Research and Education

EAS 701 (2018) Conducting an Environmental Justice Assessment in Michigan

EAS 701 (2019) Advancing Environmental Justice Policy in Michigan