Who's Minding the Air at Your Child's School?

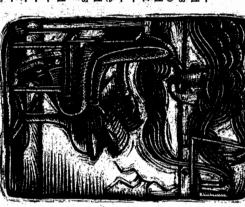
CARLOS PORRAS MANUEL PASTOR and By RACHEL MORELLO-FROSCH,

environment can impair learning. conducted in the Los Angeles Unified enhancing education requires going be-School District suggests that a school's ing and curriculum reform. A study we yond the basics of testing, teacher trainto improve student performance. But ANTA CRUZ-Both President George W. Bush and Gov. Gray Davis want schools be accountable to parents and to meet tougher standards, to

asthma, especially among inner-city youth, have been linked to school abconcerns about the rise in learning dis-abilities among children in the U.S. Ap-proximately 12 million children suffer potential cause. senteeism and diminished learning caenrolled in special-education programs lators see environmental pollution as a pacity. Increasingly, scientists and regu-20 years. Soaring rates of childhood ioral problems; the number of students from learning, developmental or behavhas increased nearly 200% over the last For a decade, researchers have raised

short-term effects of dirty air-eye irri-Many studies have investigated the

ronment. tor of Communities for a Better Enviprofessor of health education at San Francisco State University. Manuel Pas-Cruz. Carlos Porras is executive direc-Rachel Morello-Frosch is an assistant Polerance and Community at UC Santa tor is director of the Center for Justice,



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growth and function in children. on the health of adults. New research smog can significantly impair lung that air pollutants commonly found in long-term adverse effects on kids. Retation, coughing and chest tightnesssearchers looking at the Los Angeles suggests that polluted air may also have Basin, for example, recently concluded

or simply because their neighborhood army of buses to attend magnet schools cant number of them cross town on an schools. True, a majority of students in Los Angeles live and attend school in can also encounter hazards at their in their neighborhoods. Yet, children the same neighborhoods, but a signifidren's environments focus on conditions Most studies on the health of chil-

> schools are overcrowded; many white by the Environmental Protection middle-class students attend private schools far from their homes.

of environmental hazards located near Avenue Elementary in Cudahy. pressure forced the LAUSD to promise ups at the two sites. Last week, similar among students and teachers. While nearby for a cluster of cancer cases dens blamed chrome-plating plants some Southern California schools. Many removal of arsenic-tainted soil at Park nity and parental pressure forced cleannot demonstrate a causal link, commuhealth officials and researchers could and Intermediate schools in Bell Garparents of students at Suva Elementary There have been dramatic examples

effects spread beyond health to include student achievement, then they are ancentrated at minority schools, and their more than 95% of the students are Laother obstacle in the path of children mental risks are disproportionately conequal-opportunity problem. If environlution and its effects may not be an neighborhood instability and underperwho already face barriers of poverty, tino, have reinforced concerns that pol-Cases like Suva and Park, where

cently examined the distribution of powere striking. other variables were determined so pat-terns could be revealed. The results tential environmental risks among schoolchildren in LAUSD. The local enforming schools. ion, test scores, teacher experience and was mapped. A school's racial composivironmental conditions of each school To explore these questions, we re-

Using air-toxicity models developed

Agency, we estimated cancer and respithe schools with the cleanest air were nearly 30% Anglo (in a school district sources near each school. The fifth of ratory risks associated with pollution 92% minority. that is less than 15% white), while the ifth with the most polluted air were

zoned for industrial use, income levels associated with a school. usually associated with pollution: poputherefore tried to control for factors heavily minority schools tend to be lo-cated in older industrial areas. We in predicting the environmental risks lation density, the percentage of land dent body still played a significant role theless, the racial make-up of the stumitment to the neighborhood). Neverboth political power and resident comand home ownership (often a sign of tion of other factors. For example, This disparity could simply be a func-

pected, given local demographics and disposal facilities, are disproportionstudents than would have been tants in the schools with more minority spiratory risks from hazardous air pollunities. To account for this, we reanaair pollutants, as well as its toxic storage with significantly higher cancer and rehave been predicted from the neighborwas more or less minority than would ately concentrated in minority commuturns out the racial disparity persisted, hood in which it was situated. As it lyzed our data to determine if a school Southern California's most hazardous Is this correlation simply a reflection neighborhood demographics? After previous research indicates that

tionship between respiratory risks and other effects? We examined the relater accounting for the poverty levels of the students, their English language school achievement, as measured by the among Los Angeles schoolchildren have proficiency, the percentage of teachers Academic Performance Index. Even af-Do these persistent health disparities

with emergency credentials, the educa-

pollution had a negative and statistidictors of academic achievement, tions of parents and other standard pre-

cally significant effect on test scores. The causal chain and biological

barrier in their way? academic challenges. Why put one more mechanisms involved remain unclear, and detailed epidemiological work is and low-income students already face is troubling, given that many minority between pollution and impaired learning necessary. But the apparent connection

South Gate high school, suggest that any proposed school location and conversies generated by the sitings of the of our study, coupled with the controscarce in the densely populated inner schools in the next five years. With land nerability of children to environmental struction plan take into account the vul-Belmont Learning Complex and a new tradeoffs may be necessary, the results eas once used for industrial uses. While city, the district will have to consider ar-The LAUSD is slated to build 86 new

ately affecting minority children's ronmental hazards are disproportionmust ask: Who's minding the kids health and academic performance, we When we see a pattern in which envi-

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