"USA TODAY hopes to serve as a forum for better understanding and unity to help make the USA truly one nation."

-Allen H. Neuharth, Founder, Sept. 15, 1982

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Latest mistake adds to EPA record of shoddy science

When a blue-ribbon panel warned federal regulators Tuesday that a fuel additive they've pushed poses a health risk, the response was superficially soothing.

EPA administrator Carol Browner accepted the decision. She said her agency would find a better ingredient to limit auto pollution.

But the report is a marker of a wider, more dangerous problem. With little public notice, the EPA time and again has used slipshod science to justify new anti-pollution rules, then defended the rules to the hilt, even if that defense came at the expense of its own scientists.

In the latest case, a special EPA panel said that MTBE, a potentially cancer-causing gasoline additive, was increasingly contaminating water supplies through fuel spills and leaks. But the report didn't contain new research. The panel just collected studies long available to the EPA. The agency either was too busy cheerleading the fuel additive to examine that research seriously or willfully ignored it.

That follows a pattern that has turned up over and again:

▶ In May, the prestigious National Research Council reported that fuel additives didn't cut air pollution nearly as much as the EPA claimed.

▶ Independent audits of car-emissions tests find pollution reductions well below what the EPA promised.

▶ Last spring, reports emerged that the agency withheld studies undermining its own public claims of environmental racism.

Back in 1992, another expert panel appointed by the EPA summed up the agency's short-comings in a blistering report, saying "the interpretation and use of science is uneven and haphazard . . . (sometimes) leaving EPA initia-

Signs of trouble

Tuesday's report that a government-mandated gasoline additive is dangerous is only the latest of several setbacks for the Environmental Protection Agency. In recent months, the validity of the agency's work has been called into question repeatedly:

▶ May 26: The U.S. Court of Appeals temporarily blocked EPA smog rules governing Midwestern states.

▶ May 14: A federal appeals panel threw out the EPA's new national smog and soot standards on the grounds that they were arbitrarily set.

▶ May 11: A National Research Council report found fuel additives designed to cut smog likely to "have little air-quality impact."

tives on shaky scientific ground and affecting the credibility of the agency."

But the problem continued. Four years later, in a June 1996 article in the journal *Nature*, then-EPA scientist David Lewis said science at the agency was "reaching a state of crisis."

Rather than address Lewis' concerns, agency officials retaliated against him with trumped-up ethics charges. He filed a whistleblower complaint, which the EPA settled for more than \$100,000 and an apology. Others say they've suffered similar fates. A letter signed by several EPA scientists last June complained that "retaliation against whistleblowers occurs at every management level."

That's a far cry from the 1992 report's recommendation that scientists "feel free to express conflicting opinions and judgments without fear of reprisals."

That expert panel knew what the EPA has apparently yet to learn: namely, that sound environmental rules require sound science.

pollutes water; regulators doze Fuel additive cleans air but

Now, it's reluctant EPA touted MTBE. **OUR VIEW**

In Glennville, Calif., a small town in the Sierra hills, the air might be a little bit eleaner. But the water, heech, it's undrinkable.

The two events actually share a common air pollution, called MTBE, is showing up in the town's well water. Not only are Glemville residents upset, but so are communities around the country that have seen this potentially toxic source: A gasoline additive that is used to cut chemical seep into their water supplies.

rassment. For years the agency has been tout-To the Environmental Protection Agency ing "oxygenates" such as MTBE as a way for communities to meet federal clean air standards. The additives cut pollution by helping (EPA), this is a surprise and a potential embarengines burn fuel more completely.

mate it 1 . . . redty befegerngleget Apprilagit glage

polluted areas of the country. The LPA told in 1990, when it toughened the Clean Air Act and required elemer-burning gas in the most Congress first pushed this oxygenated fuel other areas they could opt into the program to help meet elem air targets. MTME, made from refinery waste products, quickly became the additive of choice for the oil industry, and today is in nearly 30" of easoline sold.

That was fine with the EPA, which was trymg to clean the air and hadn't given much thought to the possibility that MTBE aself Now some health experts want the additive banned. And Mame recently journed California might pose a risk

in an effort to get out of the reformulated-gas They may have reason to be worned.

cer in lab animals, and some people complain es. One Pennsylvania researcher suspects the The chemical has been shown to cause canadditive is behind the recent spike in asthma that it causes headaches, nausea and skin rash-

able. Clein air shouldn't come at the experie That gap must be filled in as quickly as poscreasingly common chemical the air each day from Abanst papes. Water supplies across the nation slow traces of the And the additive mereasurgly is showing up in the environment in California alone, as much is 43 tons of MTBF are pumped into

of clean water.

26. 96. 96. 16. 06. 26. 16. 06. MTBE production As production of the fuel additive MTBE has skyrocketed, so have concerns that the chemical, while cleaning the air, may also be (barrels per day) Fueling clean air polluting the water. 120,000 160,000 200,000

tanks. Santa Monica, Calif., had to shut down raif its water wells after they were found to be additive, mainly from spills and leaky storage contaminated with MTBE.

Despite these frends, and despite the EPA's normal aggressiveness in battling risky chemicals, the agency has been slow to respond with research and regulations. So far, it has isdard, on acceptable levels of MTBE in drinking water. And it doesn't require water sted only an advisory, not a mandatory stanagencies to test for the chemical

MITH: is no worse that the toxic chemicals it MTBE showing up in most water supplies has At the same time, the EPA knows little replaces in gasoline, And the amount of wen relatively miniscule. Besides, the use of It has, in fact, been credited with cutting anog in many areas. But a White House Ofwintertune carbon-monoxide pollution by a The EPA says there's little to worry about. found that the EPA overstated the decline in factor of two, and that the additive boosts lice of Science and Technology Policy report some other pollutants, such as formaldehyde. MTBI: is providing hoge gains in clean air

thout the risks of prolonged MTBF exposure a troubling knowledge gap for an m-

Balance benefits against risks

OPPOSING VIEW More study assess MTBE's potential harm.

without using MTBE. Some petroleum refin

By Jason S. Grumet

The reformulated-gasoline (RFG) program has substantially reduced the risk of lung discase, asthma attacks, cancer and premature death for 75 million Americans.

Air pollution monitors indicate that emissions of berzene, a known human carcinogen, diminished by more than 40", in the 17 ly 15 million cars off the road. Smog-forming vehicle pollution declined by more than 25% states using RFG. That's equal to taking nearin those areas.

Despite these public health improvements, concern is growing over groundwater contanumation by MTBE, a high-extane additive used in some conventional gasolines and most RFG. MTBE is considerably less toxic when gasoline leaks or spills, MTBE travels faster and farther than the rest of the toxic than other chemicals in gasoline. However, plume, potentially jeopardizing more drinking water supplies. The most robust solution

water. During this ongoing research, state-must balance known benefits against lessunderstood risks. Rural areas dependent upon ers assert they are prepared to meet this chal We know with confidence that RFG con taining MTBE reduces toxic air pollution However, more study is needed to assess the potential health effects of MTBE in drinking private wells are likely to approach this uncertainty differently from urban areas with poor air quality and less-vulnerable water supplies. In addition to comparing total risks. states must evaluate whether these risks and benefits are shared equally across society

in the complex and highly charged atmosphere surrounding the RFG debate, it is not world unburdened by trade-offs and unpersuprising that some opine for a simpler eet choices a world dominated by nontoxic fitels, electric cars and desirable public transportation. Until then, we must make the hest environmental decisions with the choices wallable today

Jason S. Grund is everative director of the Northeast States for Courdinated Air Use Management, which represents the air pollinresolution there in summeral features mon

> is to stop the leaking and spilling of all gasoine. Another option being pursued in Califormst and Maine is to identify cost-effective ilternatives that maintain the benefits of RFG

Leaving science out of acrimonious environmental debate

ALSTON CHASE

ack seat to the spirit of giving. day season is that for this brief period, politics take a

is driven by a consuming desire to make hamburger out of its oppomore destructive of brotherly love begin again. For no contest is such as clean air and natura seemingly innocuous subjects new Congress begins to consider nent's sacred cow. preservation, the acrimony will than the environment. Each side But come January, when the

over the Earth about? Politicians say it concerns "jobs What then, exactly, is this fuss

guys (themselves) against vs. the environment. Greens insist it's about

guys (the rest of us). defenders of property rights against the faceless phalanxes of oig government. Wise Users claim it pits valiant

kets against federal regulation. Economists aver it's free mar-

ciety. They're complex, not simple, ence is on their side. And everybody is wrong. Envi And everybody claims that sci

that pertain to three different issues. Two of these issues are mit of no rational resolution. purely political and therefore ad and involve clusters of questions onmental controversies mirror so-

Showing contests

shoving contests between greens allowing debates to devolve into urally, it is seldom discussed at all and free market economists. by environmental science. So nat-Only the third might be settled

These three issues are:

since it measures what they will veals the environment is not alpay for, and that the market re determining what people want gue that the free market is best for means. But many economists argoals and that their duty is to dence over all competing social mental protection takes prece est." Greens believe that environimpose this agenda by every legal ■ Identifying the "public inter

its opponent's sacred make hamburger out of consuming desire to Each side is driven by a

ers. Hence, fights often break out to decide national priorities. between these two when it's time ways top priority among consum-

incentives are best. Environmenstall them? Economists argue that ensure that utility industries insions, how can government best preservation strategies. The sectalists favor fines and penalties. way to reduce smokestack emisscrubbers are the most effective ic prescriptions. For example, if greens and economists concerns ond great area of conflict between leciding how to implement specif-Implementing protection and

tive judgments about what one ments — require making subjecthinks is most important. They priorities and deciding on the relatwo questions — setting national tive value of rewards and punishvironmental strategy. The first Deciding what is the best en-

don't have "right" or "wrong" an-

Pen Tip International Features

hikers and norses. neither more nor less justified snowmobile through wilderness is than another. Desiring to drive a necessarily has a higher value vate interests, no one of which the sum of many competing pri than wishing to restrict trails for The public interest is merely

> government — and will never be of liberty and the "goodness" of sponses — concerning the value ing policy invite ideological remost effective tools for implementincentives or coercion are the

ully resolved.

And however important, they

Likewise, debates over whether

cal pressures? cision-making and how do ernment biologists play in this deits course" or by more active maninsulate these scholars from politiagement? What role should govtained — by letting "nature take as: How is biodiversity best sus-

Most important ster

single most important step in Solving such queries — relating to how government should develop almost entirely ignored by all parframing successful policy, yet it is its scientific strategies — is the

finer points of ecology. knowledge of, nor interest in, économists who have neither question in part because most are prefer pop ecology to hard science own lobbying and because they to insulate scientists from their question because they don't want And their adversaries ignore the Environmentalists run from the

question — how to prevent the mined by default, and the critical — goes unaddressed. politicization of ecological science ronmental law and policy is deter-In this way, the content of envi

the only matter that could con-ceivably be resolved by science come name-calling contests bewill never be settled. Debates besively on ideological matters that and instead focus almost excluscientific high ground. public interest" and that both ertween interest groups that both roneously protess to occupy falsely claim to speak for "the Environmental politics ignore

season while it lasts. So let's enjoy the Christmas

Creators Syndicate

quires answering such questions questions. Fashioning rational don't address the crucial ecological

preservation laws, for example, re-

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A ban on that life-threatening water

JAMES GLASSMAN

ASHINGTON — The chemical compound dihydrogen monoxide (or DHMO) has been implicated in the deaths of thousands of Americans every year, mainly through accidental ingestion. In gaseous form, it can cause severe burns. And according to a new report, "the dangers of this chemical do not end there."

The chemical is so caustic that it "accelerates the corrosion and rusting of many metals, is a major component of acid rain and has been found in excised tumors of terminal cancer patients." For those who have developed a dependency on DHMO, complete withdrawal means certain death.

Yet the presence of the chemical has been confirmed in every river, stream, lake and reservoir in America. Judging from these facts, do you think dihydrogen monoxide should be banned?

Seems like an open-and-shut case — until you realize that this chemical compound is plain old water (two hydrogen molecules bonded to one oxygen, or H2O), which can drown you, scald you or make you go to the bathroom.

Last spring, Nathan Zohner, an enterprising 14-year-old student at Eagle Rock Junior High School in Idaho Falls, Idaho, conducted his science fair project on just this theme. Nathan distributed a tongue-in-cheek report that had been kicking around the Internet, Dihydrogen Monoxide: The Unrecognized Killer, to 50 of his classmates.

These are smart kids who had studied chemistry. Nathan simply asked them to read the report (which is completely factual) and decide what, if anything, to do about the chemical.



In the end, 43 students, or 86 percent of the sample, "voted to ban dihydrogen monoxide because it has caused too many deaths," wrote Nathan in the conclusion to his project.

Nathan's project, which won the grand prize at the Greater Idaho Falls Science Fair, was titled, How Gullible Are We? But ninth-graders aren't the only gullible parties. Says David Murray, research director of the non-profit Statistical Assessment Service in Washington, "The likelihood is high that I could replicate these results with a survey of members of Congress."

Murray, whose organization "looks out for misleading science that's driving public policy over a cliff," ran across the Zohner story a few months ago on the Internet.

The implications of Nathan's research are so disturbing that I've decided to coin a term: "Zohnerism," defined as the use of a true fact to lead a scientifically and mathematically ignorant public to a false conclusion.

Environmental hysterics — Vice President Al Gore springs to mind — and ideologues in such fields as race, women's issues and economics are adept at using Zohnerisms, with help from the media, to advance their a sendas. A few examples:

■ The breast-implant mania. Dow Corning was driven into bankruptcy through lawsuits over its silicone implants — even though science doesn't support claims that they're dangerous. Marcia Angell, executive editor of the New England Journal of Medicine, says that research has consistently failed to find a link between silicone and disease. Yes, women who have implants get sick, but in a typical study, "the implant group was no more likely to develop connective-tissue disease than the group without implants."

White flight. In the headline above an article about population growth in rural areas, the New York Times claimed, "Hint of Racial Undercurrents Is Behind Broad Exodus of Whites." Steven A. Holmes, the reporter, wrote that studies by demographer William Frey "show that of the 40 fastest-growing rural counties, virtually all are at least 70 percent white."

Shocking? Well, according to the Bureau of the Census, 83 percent of the U.S. population is white.

Finding Zohnerisms in the press. Congressional Record and speeches of administration officials makes a great parlor game. One place to start is the collected speeches of the Environmental Protection Agency's Carol Browner, who has used Zohnerisms masterfully to promote expensive, disruptive new standards for particulate matter and global warming — despite evidence from scientists that is, at best, inconclusive.

That's a shame. In a land where technical ignorance reigns and susceptibility to Zohnerisms is high, it's the duty of politicians, journalists and scientists to present facts responsibly.

Special to the Washington Post

hopes to serve as a forum for better understanding and unity unartit Founder, Sept. 15, 1982 e the USA truly one nation."

Publisher: Tom Curley

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Senior Vice President Circulation, Larry Undo Vice Presidents ation Rechnology, John Paimisano Marketing, Melissa Snyder; Production, Ken Kirkhart

Punishing whistleblowers

izzles critic laulty science

do not toe line face repite public interest.

Protection Agency research lab in Athens a, and a 5% bonus. MG job back as director of an Environmental The Russo's day. She's to be given her the Department of Labor decision that no doubt made

that in turn murts its mission to protect up to it, paint's disturbing picture of how the But the decision, and the events leading

public hearth.

The Department of Labor's findings one of the agency's own scientists. cials to squeich safety concerns raised by of a fervid builying campaign by top EPA offishowed that Russo was an innocent victim

worse, it's only the latest in a long line of exdedicated to protecting public health. Even would rather muzzle criticism of its policies unples showing that the EPA too often ian deal with the root of the problem That's troubling behavior from an agency

the decision to allow millions of tons of cussor problems started after one of her ased gency officials by criticizing the Helds can be harmful to people exen microbiologist David Lewis, emlegs studge to be used as crop .

EPA scientist targeted

volving Rosemarie Russo, who for 16 mental Protection Agency research lab n Athens, Ga. Here is the timeline of events inhas been head of an Environ-

February 1993

▶ Sludge rule approved by EPA, allowing treated sewage to be used as

October 28, 1999

criticism of the sludge rule. publishes paper in Nature that contains ► EPA microbiologist David Lewis

spit nails " saying, "I am so mad about this, I could that Russo didn't alert her to the article Noonan fires off an e-mail complaining ► EPA assistant administrator Norme

October 29, 1999

ceeds expectations," causing Russo mance rating from "outstanding March 22, 2000 ▶ Noonan lowers Russo's perior-

sional hearing. defensible," is presented at:a, congressays the sludge rule is not "scientifically A deposition of Russo, in which she

June 9, 2000

to Washington, D.C. October 2, 2000 Russo is told she is being relocated

favor of Russo, calling actions against

► The Department of Labor finds in

her "retaliatory in nature.

article," according to the Labor Department. played her anger toward Dr. Russo over the Noonan fired off memos that "clearly dis-October, EPA Assistant Administrator Norine peer-review article in the journal Nature last When Lewis described his concerns in a

cluded was "retaliatory in nature." Washington, D.C., a move that Labor con-Russo was forced by the EPA to relocate to mance rating, denying her a 5% bonus. Then

backfired: using. Nor the first time those efforts have cerns about the validity of the science EPA is tried to shut up internal critics who had con-This is hardly the first time the EPA has

sue, already won another whistleblower case EPA paid him \$115,000 in a settlement, for a 1996 article critical of EPA science. The tleblower case against EPA over the sludge isalong with a written apology. against the EPA after it retaliated against him Lewis himself, who has a pending whis,

cleanup plan and claimed that in response, EPA scientist, questioned an EPA Superfund the agency trumped up conflict-of-interest ▶ Brian Rimar, a former Denver-based

Noonan later downgraded Russo's perforin 1998 and paid Rimar \$100,000.

charges against him. The EPA settled the case

was "pervasive" and reaches "the highest whistleblowers receive, saying the problem complained publicly of the hostile treatment levels" of the agency. ▶ In June 1998, several EPA scientists

and promotions." death sentence in terms or upward mobility where if you complain ... you are facing a that "there seems to be a situation at EPA of the NAACP Federal Sector Task Force, said ing EPA reprisals, Leroy Warren Jr., chairman ➤ At a House hearing Wednesday examin-

"with strong enforcement actions." dards" for sludge and that it backs them up wrote a response to a USA TODAY editorial ministrator in the EPA's Office of Water, war EPA's attempts to squelch criticism aren't saying that the EPA set "tough health stanpublic. Last October, Chuck Fox, assistant adbut include making dubious assertions to the limited to intimidating critical employees,

cluded in March that the EPA can't guarantee because EPA "does not have an effective program for ensuring compliance" with the that the sludge rules protect human health But the EPA's own inspector general con-

who testified in a deposition earlier this month, the academy review likely would rules. According to one senior EPA official "raise issues" with the existing program Academy of Sciences to review its sludge Now the agency has asked the Nationa

earned from its mistakes. f there was reason to believe the EPA had Russo's story might have a happier ending

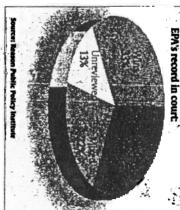
reprisals." ensuring they "feel free to express conflictsued back in 1992 warned the agency that it ing opinions and judgments, without fear of should improve its treatment of scientists, To the contrary, an internal EPA report is-

to her old office. have to do far more than give Russo the keys pair its battered reputation and live up to its has heeded that call. If the EPA hopes to repromise to protect the public's health, it will So far, there's no indication that the EPA

EPA takes hits in courts

The Environmental Protection Agency contends that its rules are based on sound science. But those rules are reversed in court more often than the rules of other federal agencies, according to an analysis of cases heard by the D.C. Circuit of the U.S. Court of Appeals during the past

EPA's record in court



EPA supports its scientists

Opposing view:

Sound science involves listening to all points of view.

By Norine Noonan

Put simply, the Environmental Protection
Agency (EPA) is committed to sound science. Show of
This involves listening to all points of view, ment pextracting the strongest consensus among offices, scientific thought, and submitting those conclusions for a public review by the nations most 1 leading experts.

The agency has made a strong commitment to peer review to ensure that only the best science forms the basis for our decisions. While our insistence on a rigorous peer review of science may impose an institutional discipline to which some object, the results are clear: The American public and the scientific community have a greater confidence in the integrity of EPA's scientific decisions.

Our peer-review process has been lauded by the National Research Council. It is designed to consider a wide spectrum of scientific thought.

We are equally committed to encouraging diverse opinions among our scientists. Every scientist is encouraged to make his or her opinions known, of course. EPA scientists, for

instance, have testified before Congress on matters strictly reflecting their own opinions, and they have done this with the blessing of management.

To ensure that our scientists are satisfied with the quality of working conditions, we have taken the unprecedented step of conducting internal surveys. Those surveys show overwhelming approval for the treatment provided scientists by EPA's research offices.

While it is true that in an among with all

scientific thought, and submitting those conClusions for a public review by the nation's most 1,000 scientists, we may not be able to leading experts.

The agency has made a strong committry.

Ment to peer review to ensure that only the ment to peer review to ensure that the ment to peer the ment to peer the ment to be a peer t

And for those very few cases in which scientists may have honest complaints — just as honest grievances exist in all business and group endeavors — we wish to strive to ensure that procedures exist for fair review and adjudication of complaints.

That should not distract from the fact, however, that EPA science is now viewed by the professional community as among the best and most sound environmental science available anywhere today.

And we remain committed to continuing to improve it in every way possible.

Norine Noonan is assistant administrator for research and development at the Environmental Protection Agency.