

August 15, 2011

Amy Bodette  
Federal Designated Officer  
U.S. Department of Energy  
1000 Independence Ave., SW  
Washington, DC 20585

Dear Ms. Bodette:

On behalf of Environmental Working Group, I write to express my concerns about the draft report “The SEAB Shale Gas Production Subcommittee Ninety-Day Report,” released August 11. Environmental Working Group is a 501(c)(3) organization whose mission is to use the power of information to protect public health and the environment.

Last March, the White House tasked the Department of Energy with recommending ways to improve the safety and environmental performance of shale gas extraction. The Secretary of Energy, Steven Chu, named a panel to address these issues comprised of seven members, six of whom have current financial ties to the oil and gas industry. This industry-dominated panel troubles many people in communities where companies are currently drilling for natural gas or may do so soon.

On June 27, 90 organizations signed a letter to Secretary Chu asking that the subcommittee be balanced with representatives of affected communities and independent experts. Currently, 108 organizations representing more than three million people have signed the letter (Attached as Exhibits 1 and 2). Their interest reflects Americans’ growing apprehension that state and federal regulators are not able to protect water, land and air from pollution associated with natural gas drilling.

In New York, Pennsylvania, Ohio, Arkansas, North Carolina and elsewhere across the country, affected communities, religious leaders, environmental groups and health advocates have united in objection to the unbalanced makeup of this subcommittee... On August 4, more than 50 New York State elected officials expressed similar concerns in a letter to Secretary Chu. Currently, 59 New York elected officials have signed the letter (Attached as Exhibits 3 and 4). And on August 10, 28 doctors and scientists from across the country detailed the need for more objective voices on the panel (Attached as Exhibit 5).

Given its industry bent, the subcommittee’s recommendations come as no surprise. The panel made obvious and necessary recommendations on the need for the natural gas industry to be more transparent, to improve air quality at new and existing wells, to eliminate use of diesel fuel as a fracking additive and to measure and track water use and quality during drilling operations.

At a recent subcommittee meeting, panelist Mark Zoback used the often-repeated industry talking point of “anti-hydrofrack hysteria” to trivialize communities’ concerns about fracking. This comment conveys the overall tenor of this draft report. In fact, the panel’s stated urgency in addressing environmental consequences appears to be more about the industry’s ineffective messaging and communication, not the actual risks associated with natural gas drilling. The subcommittee report says that “absent effective control, public opposition will grow, thus putting continued production at risk.” (Committee report, page 8).

EWG supports efforts to create transparency and share data about fracking with the public, but the dangers of fracking go beyond a communication issue. The subcommittee's message to the industry is heavy on public relations and light on substance. For instance, the panel advises the gas industry that "[a]n industry response that hydraulic fracturing has been performed safely for decades rather than engaging the range of issues concerning the public will not succeed." (Subcommittee report, page 13). This comment illustrates the importance the committee places on communication issues.

The actual problems presented by gas drilling and fracking are substantial and extremely serious. Community concerns are not simply a barrier to expanded production. People in affected communities raise valid, important questions as to the safety of a risky technology that is literally being used in their backyards. The report does not adequately acknowledge these environmental realities.

The Shale Gas Production Subcommittee calls for more "effective environmental action" and more regulation in a general sense. But, the report fails to mention the seven exemptions that natural gas drilling receives from federal environmental law—including the Safe Drinking Water Act, the Clean Water Act, Clean Air Act, the Resource Conservation and Recovery Act, the Comprehensive Environmental Response, Compensation, and Liability Act, National Environmental Policy Act, and Emergency Planning and Community Right-to-Know Act. Federal and state governments must regulate shale gas production, and they need effective tools to do it.

**Highlighting existing exemptions for hydrofracking that tie regulators' hands is within the scope of the panel's charge.** The committee skirts the issue by asserting: "[i]t is not within the scope of the Subcommittee's 90-day report to make recommendations about the proper regulatory roles for state and federal governments" (p.11)." In fact, the charge says that the panel cannot make regulatory *decisions*... but recommendations are entirely appropriate (p.2, Chu memo, Annex A).

**The subcommittee did not address data on drinking water contamination from the range of natural gas drilling operations or discuss secret settlements as hindrance to transparency.** The panel had nothing to say about the industry's practice of suppressing information about contamination incidents by requiring families seeking compensation or delivery of safe water to sign confidentiality agreements. A yearlong investigation by Environmental Working Group, published earlier this month, disclosed a long-forgotten report from the Environmental Protection Agency (EPA) that documented cases of oil and natural gas-related water contamination including an "illustrative" case of contamination from hydraulic fracturing. In that report, EPA investigators complained that confidentiality agreements had impeded their work. (See Cracks in the Façade (Attached as Exhibit 6)). We have met personally with homeowners whose well water has been contaminated and have agreed not to discuss their situation publicly in return for compensation from the drilling company that they say polluted their water.

**Existing federal Clean Air Act exemptions will undermine the stated goal of improved air quality at drilling sites.** In addition to strong regulation, the subcommittee "supports adoption of rigorous standards for new and existing sources of methane, air toxics, ozone precursors and other air pollutants from shale gas operations" (p.2). Yet the subcommittee makes no mention of natural gas drilling's exemption from the Clean Air Act. It recommends "encouraging" companies and regulators to reduce air emission using proven technologies. Encouragement alone will not produce rigorous air pollution standards.

**Fracking chemical disclosure is an obvious recommendation.** The subcommittee believes there is no reason to prevent public disclosure of all chemicals in fracturing fluids, "with an exception for genuinely proprietary information" (p.3). Disclosure of chemicals used in fracking is an essential element to

transparency. The subcommittee agrees “that the barrier to shield chemicals based on trade secret should be set very high.” (p.24) This language is, in effect, a concession that companies can claim trade secrets for fracking fluid. Trade secret protection should not prevent the disclosure of each chemical used in fracturing fluid.

**Reduction of diesel in shale gas is also obvious, but the report does not address other toxic petroleum distillates.** “The Subcommittee believes there is no reason to use diesel in shale gas production.” (p.3). But the panel makes no mention of other petroleum distillates such as kerosene that contain the same high levels of toxic chemicals including benzene, a known human carcinogen. We know that many companies have failed to obtain required EPA permits to use diesel in their wells, but the subcommittee makes no mention of enforcement of this provision.

**Technology will not save us after fracking changes America’s landscape and potentially its water and air quality.** The subcommittee writes that the public should expect significant technical advances associated with shale gas production that will improve efficiency and reduce environmental impact (p.4). “There are many reasons to be optimistic...” (p.9). While advances in technology may improve efficiency, technology alone will not be able to effectively reduce environmental impacts so long as hydraulic fracturing is exempted from those major environmental laws that were created to protect public health and the environment.

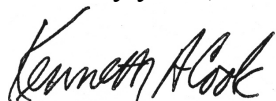
**The creation of databases and information sharing without reporting requirements are not sufficient transparency.** The panel recommends creation of a publicly available national database to create linkages among information and data (p.14). But without reporting requirements the database will likely be rendered ineffectual.

**The call for more regulation is obvious but unlikely as state and federal budgets crumble.** Industry reaction has been tepid and strangely silent on the committee’s calls for more regulation. We support more federal and state regulation of natural gas drilling but as a practical matter, it is unlikely that regulators can actually accomplish meaningful oversight without an overhaul of the underlying legal exemptions for the natural gas industry.

The outcry against this panel comes from people who have seen the devastating effects of poorly-regulated shale gas extraction and who are simply trying to protect their families and property from the same fate. It’s not hysteria. These concerns are real. And they are not to be dismissed as an obstacle to industry production.

The environmental risks of drilling and fracking are great. Americans need to know much more about fracking’s long-term impacts before it is allowed to alter the landscape forever. It’s time for a change in the way the natural gas industry does its business. This report falls short.

Sincerely yours,



Kenneth A. Cook  
President  
Environmental Working Group

## **EXHIBIT 1**

June 27, 2011

The Honorable Steven Chu  
Secretary of Energy  
1000 Independence Avenue, SW  
Washington, DC 20585

Dear Mr. Secretary:

We are writing to ask you to address the lack of impartiality and balance on the Natural Gas Subcommittee of the Secretary of Energy Advisory Board. Our organizations are located in 13 different states and together have over 1.5 million supporters. Many of them are already directly affected by drilling and fracking. Many more want to understand the implications of expansion of natural gas and oil operations into their communities.

Hydraulic fracturing, also known as fracking, is increasingly important in natural gas and oil development. Yet it has been linked to water contamination and property damage across the nation. Understandably, people who live and work in places where fracking operations are planned are concerned about the consequences for their lives and livelihoods. New York City Councilman James Gennaro, chair of the city council's Committee on Environmental Protection, has estimated that if drilling and fracturing for natural gas in upstate New York were to contaminate the city's water supply, the city might have to spend as much as \$20 billion dollars to build a water filtration plant – with no guarantee that the plant could purify the water.

Already thousands of people from Pennsylvania to Wyoming have reached out to the government to express their concerns about the environmental impacts of fracking. Yet your decision to appoint six subcommittee members, including the chair, John Deutch, with financial conflicts of interest sends a clear signal that the administration is listening to the top brass of the industry, not to real people at the grass roots who are concerned and affected by fracking.

The public deserves better. Specifically, we deserve a fair advisory panel, which means:

1. **People from communities affected by fracking and oil and gas drilling must be represented on the panel.** Their quality of life, their health, their property values are at risk. Yet there is no one to speak for them. Why not?
2. **John Deutch must step down from the panel.** Mr. Deutch, a director of the Central Intelligence Agency under President Clinton, served for a decade on the board of Schlumberger Ltd., one of the world's three largest hydraulic fracturing companies. Schlumberger paid Mr. Deutch about \$563,000 in 2006 and 2007, according to Forbes Magazine Online. He is now on the board of Cheniere Energy, Inc., a Houston-based liquified natural gas company that, according to Forbes, paid him about \$882,000 from 2006 through 2009.
3. **The panel must be chaired by an impartial person and must be expanded to include independent experts.**

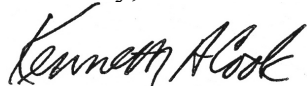
We share President Obama's concern over rising energy prices. But Americans' health and the safety of our drinking water are just as important. In light of the complexity and importance of the issue and EPA's ongoing scientific study of fracturing, which is being conducted according to high ethical standards, we insist on a panel that can offer constructive and credible advice.

**In addition to Mr. Deutch, other panel members have these industry connections:**

- **Stephen Holditch** became a leader of hydraulic fracturing designs at Shell Oil and later headed his own firm, acquired by Schlumberger in 1997. Today, he is the engineering committee chairman at Matador Resources, a Dallas oil and gas exploration company, and is on the board of directors of Triangle Petroleum Corporation, a Denver-based oil and gas exploration and production company which has paid him more than \$1.7 million between 2006 and 2010 according to Forbes.
- **Kathleen McGinty**, chair of the White House Council on Environmental Quality during the Clinton administration and former secretary of the Pennsylvania Department of Environmental Protection is senior vice president of Weston Solutions, Inc., which consults for the oil and gas industry, including a leading natural gas driller, Chesapeake Energy. She is also a director for NRG Energy, a wholesale power generation company whose assets include more than two dozen natural gas power companies. Forbes reported that NRG Energy paid her more than \$500,000 from 2008 to 2010.
- **Susan Tierney**, assistant secretary of the Energy department under President Clinton, now managing principal at Analysis Group, which consults for utilities that use natural gas and for the Interstate Natural Gas Association of America, the natural gas pipeline industry association.
- **Daniel Yergin** is co-founder, chairman and executive vice president of IHS CERA, an international consulting firm whose clients include the oil, natural gas, coal, power and clean energy communities. He earned \$12.7 million from IHS in 2010 alone, according to Forbes.
- **Mark Zoback** is a geophysics professor at Stanford and senior advisor to Baker Hughes, Inc., a Houston-based oilfield services company engaged in hydraulic fracturing. Zoback is chair of GeoMechanics International, a consulting firm that advises on various oil and gas drilling problems and that was acquired by Baker Hughes in 2008.

Thank you for your consideration. We look forward to your response.

Sincerely,



Kenneth A. Cook, President  
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*350 PPM*

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Patty Barker, Policy Director  
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*Lincoln Place Action Group*

Gloria Forouzan, Representative  
*Marcellus Shale Protest*

Sister Rosemary Ryan, North America Coordinator  
*Medical Mission Sisters*

Beverly Braverman, Executive Director  
*Mountain Watershed Association*

Tom McCaney, Associate Director  
*Philadelphia Area Coalition for  
Responsible Investment*

Peter Wray, Chair, Conservation Committee  
*Sierra Club Allegheny Group*

Nora Nash, Director, Corporate Social Responsibility  
*Sisters of St. Francis of Philadelphia*

Richard Yanock, Vice President  
*Washington County Chapter, IWLA*

Bishop Thomas J. Bickerton  
*Western Pennsylvania Conference  
of the United Methodist Church*

Janice Milburn, Representative  
*Westmoreland Marcellus Citizens Group*

Terri Davin, Representative  
*The Wheeling Creek Watershed Conservancy*

## **Texas**

Jim Schermbeck, State Director  
*Downwinders at Risk*



Don Young, Founder  
*Forth Worth Citizens Against Neighborhood  
Drilling Operations*

## **Virginia**

Kate Wofford, Executive Director  
*Shenandoah Valley Network*

## **West Virginia**

Kathleen Cash, Steering Committee  
*West Virginia for a Moratorium on Marcellus*

## **Wyoming**

Linda F. Baker, Director  
*Upper Green River Valley Alliance*

## **EXHIBIT 2: UPDATED SIGNATORIES AS OF AUGUST 15, 2011**

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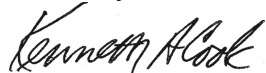
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*Medical Mission Sisters*

Beverly Braverman, Executive Director  
*Mountain Watershed Association*

Wanda Guthrie, Founder  
*Murraysville Marcellus*

Tom McCaney, Associate Director  
*Philadelphia Area Coalition for  
Responsible Investment*

Stanley Shapiro, Vice Chair  
*Philadelphia Neighborhood Networks*

Iris Marie Bloom, Director  
*Protecting Our Waters*

Peter Wray, Chair, Conservation Committee  
*Sierra Club Allegheny Group*

Nora Nash, Director, Corporate Social  
Responsibility  
*Sisters of St. Francis of Philadelphia*

Sister Mary Beth Hamm  
*Sisters of St. Joseph of Chestnut Hill*

Richard Yanock, Vice President  
*Washington County Chapter, IWLA*

Bishop Thomas J. Bickerton  
*Western Pennsylvania Conference  
of the United Methodist Church*

Janice Milburn, Representative  
*Westmoreland Marcellus Citizens Group*

Terri Davin, Representative  
*The Wheeling Creek Watershed Conservancy*

### **Texas**

Jim Schermbeck, State Director  
*Downwinders at Risk*

Don Young, Founder  
*Forth Worth Citizens Against Neighborhood  
Drilling Operations*

### **Virginia**

Kate Wofford, Executive Director  
*Shenandoah Valley Network*

### **Washington, D.C.**

Wenonah Hauter, Executive Director  
*Food and Water Watch*

### **West Virginia**

Kathleen Cash, Steering Committee  
*West Virginia for a Moratorium on Marcellus*

### **Wyoming**

Linda F. Baker, Director  
*Upper Green River Valley Alliance*

*Comments – Kenneth A. Cook, Environmental Working Group  
Secretary of Energy Advisory Board, U.S. Department of Energy  
(April 15, 2011)  
Page 16 of 27*

Cc: Christopher Smith, Deputy Assistant Secretary for Oil & Natural Gas  
Office of Fossil Energy, DOE





RICHARD N. GOTTFRIED  
75TH ASSEMBLY DISTRICT  
  
CHAIR  
COMMITTEE ON HEALTH

## NEW YORK STATE ASSEMBLY

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COMMITTEES:  
RULES  
HEALTH  
HIGHER EDUCATION  
MAJORITY STEERING  
  
CHAIR  
MANHATTAN DELEGATION

### EXHIBIT 3

August 4, 2011

The Honorable Steven Chu  
Secretary of Energy  
1000 Independence Ave., SW  
Washington, DC 20585

Dear Mr. Secretary:

We are writing to ask you to address the lack of balance and local representation on the Natural Gas Subcommittee of the Secretary of Energy Advisory Board. Recently, you asked this subcommittee to issue recommendations to make hydraulic fracturing safer.

As New York State elected officials, we are concerned about natural gas drilling and hydraulic fracturing in our state's portion of the Marcellus Shale. New York has had a de facto moratorium on drilling and fracturing in the Marcellus Shale since 2008, a necessary precaution to prevent contamination of water supplies and other environmental harm while we study the effects of shale gas drilling.

So far, your panel has excluded citizens from New York and other regions affected by fracking. Those whose way of life is at stake deserve a seat at the table where decisions are made. We insist that you add people from affected communities to the panel.

In addition, six of the seven subcommittee members, including panel chair John Deutch, have current financial ties to the natural gas and oil industry. Their inherent conflicts of interest cannot help but undermine the panel's credibility to study the potential threat of fracking. Mr. Deutch should step down, and you should name an independent panel chair and balance the committee with other independent experts.

Hydraulic fracturing is a critical issue for our water and our health. New Yorkers and all Americans deserve a panel that is impartial and gives ordinary people a voice.

Thank you for your consideration. We look forward to your response.

Sincerely,

Assembly Member Richard N. Gottfried  
Chair, Committee on Health  
District 75

Assembly Member Rhoda S. Jacobs  
Assistant Speaker  
District 42

Assembly Member Peter M. Rivera  
Speaker Pro Tempore  
District 76

Assembly Member N. Nick Perry  
Deputy Majority Leader  
District 58

Assembly Member Barbara M. Clark  
Deputy Majority Whip  
District 33

Assembly Member William Colton  
Chair, Majority Conference  
District 47

Assembly Member Clifford Crouch  
Chair, Minority Conference  
District 107

Assembly Member Ellen Jaffee  
Secretary, Majority Conference  
District 95

Assembly Member Barbara Lifton  
Chair, Majority Steering Committee  
District 125

Assembly Member Alan Maisel  
Chair, Majority House Operations  
District 59

Assembly Member Thomas J. Abinanti  
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Senator Liz Krueger  
Ranking Member, Senate Finance Committee  
District 26

Senator Thomas K. Duane  
Assistant Minority Leader for Floor Operations  
District 29

Senator Bill Perkins  
Deputy Minority Whip  
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Senator Velmanette Montgomery  
Assistant Minority Whip  
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Senator Eric L. Adams  
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Senator Tony Avella  
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Senator David Carlucci  
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Senator Suzi Oppenheimer  
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Assembly Member Edward C. Braunstein  
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Assembly Member Marcos A. Crespo  
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Assembly Member Steven Cymbrowitz  
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Assembly Member Steve Englebright  
District 4

Assembly Member Sandra R. Galef  
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Assembly Member Deborah J. Glick  
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Assembly Member Joseph R. Lentol  
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Assembly Member William B. Magnarelli  
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Assembly Member Felix W. Ortiz  
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Assembly Member Amy R. Paulin  
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Assembly Member Linda B. Rosenthal  
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Assembly Member Aravella Simotas  
District 36

Assembly Member Robert K. Sweeney  
District 11

Assembly Member Claudia Tenney  
District 115

Assembly Member Fred W. Thiele, Jr.  
District 2

Council Member James F. Gennaro  
District 29, City of New York

Council President David A. Franczyk  
Filmore District, City of Buffalo

Council Member Joseph Golombek, Jr.  
North District, City of Buffalo

Council Member Michael J. LoCurto  
Delaware District, City of Buffalo

Council Member Darius Pridgen  
Ellicott District, City of Buffalo

Martha Robertson  
Chair, Tompkins County Legislature  
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Dooley Kiefer  
Vice Chair, Tompkins County Legislature  
District 10

Will Burbank  
Tompkins County Legislature  
District 12

Carol I. Chock  
Tompkins County Legislature  
District 3

James P. Dennis  
Tompkins County Legislature  
District 15

Pamela Mackesey  
Tompkins County Legislature  
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Leslyn McBean-Clairborne  
Tompkins County Legislature  
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Tompkins County Legislature  
District 7

Pat L. Pryor  
Tompkins County Legislature  
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Councilman Svante Myrick  
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CHAIR  
MANHATTAN DELEGATION

### EXHIBIT 4 UPDATED SIGNATORIES AS OF AUGUST 15, 2011

The Honorable Steven Chu  
Secretary of Energy  
1000 Independence Ave., SW  
Washington, DC 20585

Dear Mr. Secretary:

We are writing to ask you to address the lack of balance and local representation on the Natural Gas Subcommittee of the Secretary of Energy Advisory Board. Recently, you asked this subcommittee to issue recommendations to make hydraulic fracturing safer.

As New York State elected officials, we are concerned about natural gas drilling and hydraulic fracturing in our state's portion of the Marcellus Shale. New York has had a de facto moratorium on drilling and fracturing in the Marcellus Shale since 2008, a necessary precaution to prevent contamination of water supplies and other environmental harm while we study the effects of shale gas drilling.

So far, your panel has excluded citizens from New York and other regions affected by fracking. Those whose way of life is at stake deserve a seat at the table where decisions are made. We insist that you add people from affected communities to the panel.

In addition, six of the seven subcommittee members, including panel chair John Deutch, have current financial ties to the natural gas and oil industry. Their inherent conflicts of interest cannot help but undermine the panel's credibility to study the potential threat of fracking. Mr. Deutch should step down, and you should name an independent panel chair and balance the committee with other independent experts.

Hydraulic fracturing is a critical issue for our water and our health. New Yorkers and all Americans deserve a panel that is impartial and gives ordinary people a voice.

Thank you for your consideration. We look forward to your response.

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Fourth Ward, City of Ithaca

Supervisor Richard G. Driscoll  
Town of Newfield



## **EXHIBIT 5**

August 10, 2011

The Honorable Steven Chu, PhD  
Secretary of Energy  
1000 Independence Ave., SW  
Washington, DC 20585

Dear Mr. Secretary:

As scientists from 22 universities and institutions in 13 states, we are writing to express our concern over the lack of impartiality on the Natural Gas Subcommittee of the Secretary of Energy Advisory Board that is studying ways to make hydraulic fracturing safer. We urge you to modify the panel's membership so that the panel can make recommendations on hydraulic fracturing that are unbiased and scientifically sound.

In our work, we believe in reducing individual biases in evaluating the merits of scientific or technological ideas. The current panel does not meet this standard. Six of the seven members have current financial ties to the natural gas and oil industry. These include: chairman John Deutch, Stephen Holditch, Kathleen McGinty, Susan Tierney, Daniel Yergin and Mark Zoback. These conflicts of interest make it appear that the subcommittee is designed to serve industry at taxpayer expense rather than serving President Obama and the public with credible advice.

The committee appears to be performing advocacy-based science and seems to have already concluded that hydraulic fracturing is safe. We believe that the best science should be done first to determine whether increased unconventional natural gas production is sufficiently safe – from the individual water well to climate impact – and that policy should follow.

Five months before you appointed your subcommittee, the Environmental Protection Agency appointed a Science Advisory Board to examine similar issues. To reduce financial influences, the agency instituted a number of procedures, including an evaluation of the candidates' financial ties. As a result, the panel is perceived as impartial. We would like to see similar standards for the Energy Department's Natural Gas Subcommittee.

At a minimum, we ask that John Deutch step down from the subcommittee and that you replace him with a person with no financial ties to the natural gas and oil industry. We also request that you balance the panel with other independent members and that in its evaluation the panel most heavily weight relevant peer-reviewed sources.

Thank you for your consideration. We look forward to your response.

Sincerely,

Ronald Amundson, PhD  
Professor of Pedology  
Chair, Division of Ecosystem Sciences  
University of California at Berkeley  
Berkeley, CA

Mary Booth, PhD  
Senior Scientist  
Partnership for Policy Integrity  
Pelham, MA

Paul D. Brooks, PhD  
Associate Professor, Hydrology and Water  
Resources  
University of Arizona  
Tucson, AZ

Lynn Carroll, PhD  
Senior Scientist  
TEDX, The Endocrine Disruption Exchange  
Paonia, CO

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Center for Occupational and Environmental  
Health, School of Public Health  
University of California at Berkeley  
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Robert W. Howarth, PhD  
David R. Atkinson Professor of Ecology and  
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University of Colorado  
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Baltimore, MD

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Center  
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Science and Environmental Health Network  
Ann Arbor, MI

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Sustainable Energy Analyst and Founding  
Board Member  
PSE, Physicians, Scientists, and Engineers for  
safe healthy energy  
Binghamton, NY

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Professor of Soil Science and Soil Microbial  
Ecology  
University of California at Davis  
Davis, CA

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University of Kansas  
Lawrence, KS

Sandra Steingraber, PhD  
Distinguished Scholar in Residence,  
Environmental Studies  
Ithaca College  
Ithaca, NY

Daniel Teitelbaum, MD  
Adjunct Professor, Environmental Science &  
Engineering  
Colorado School of Mines  
Golden, CO

Christopher Uhl, PhD  
Professor of Biology  
Penn State  
University Park, PA

Frederick S. vom Saal, PhD  
Curators' Professor, Biological Sciences  
University of Missouri  
Columbia, MO

Albert Wurth, PhD  
Associate Professor of Political Science  
Lehigh University  
Bethlehem, PA

Benjamin Zaitchik, PhD  
Assistant Professor, Earth and Planetary  
Sciences  
Johns Hopkins University  
Baltimore, MD