Yeow, Aaron

From: Jewell Harper <jlaharper@bellsouth.net>
Sent: Wednesday, June 02, 2021 3:41 PM
To: Yeow, Aaron
Subject: Recommendation of Dr. Christina Fuller
Attachments: Recommendation of Dr. Christina Fuller.docx

Mr. Yeow,
Please find attached my recommendation of Dr. Christina Hemphill Fuller for appointment to the USEP Clean Air Scientific Advisory Committee. If you have any questions, please feel free to contact me. Thank you.

Jewell A. Harper
(b) (6)

Sent from my iPad

Yeow, Aaron

From: Wig Zamore <wigzamore@gmail.com>
Sent: Tuesday, June 01, 2021 11:16 PM
To: Yeow, Aaron
Subject: CASAC Candidates
Attachments: Wig Zamore comments and suggestions for CASAC membership 2021 06 01.docx

Dear Mr. Aaron Yeow, Designated Federal Officer

Please accept the attached comment, with CASAC candidate suggestions from the US EPA list.

Thanks very much, Wig Zamore
Email or (b) (6) (secure landline)

Yeow, Aaron

From: Timothy Purinton <timothy.purinton@TNC.ORG>
Sent: Tuesday, June 01, 2021 5:32 PM
To: Yeow, Aaron
Cc: Crystal Upperman
Subject: Letter of Support - Dr. Crystal Upperman
Attachments: Upperman_CASAC Comments_TNC.pdf

Dear Mr. Yeow,

Please accept this letter of support for Dr. Crystal Upperman to serve on the CASAC.

Sincerely,
Tim Purinton

Tim Purinton **(he/his)**
Executive Director
timothy.purinton@tnc.org

The Nature Conservancy, Maryland/DC Chapter
425 Barlow Place, Suite 100
Bethesda, MD 20814

(240)-630-7047 (Office)
(b) (6) [redacted] (Mobile)
nature.org

Yeow, Aaron

From: Jason Sloan <jsloan@csg.org>
Sent: Tuesday, June 01, 2021 4:34 PM
To: Yeow, Aaron
Cc: Robert.Hodanbosi@epa.ohio.gov
Subject: Comments on List of Candidates for U.S. EPA's Clean Air Scientific Advisory Committee
Attachments: AAPCA Comments - May 2021 CASAC List - 06-01-2021.pdf

Mr. Yeow,

Please find attached the comments from the Association of Air Pollution Control Agencies (AAPCA) on the list of candidates under consideration for U.S. EPA's Clean Air Scientific Advisory Committee (CASAC).

Thank you for the opportunity to provide input on this qualified pool of nominees. Please do not hesitate to contact me if you have any questions about the Association's comments.

Jason E. Sloan
Executive Director
Association of Air Pollution Control Agencies
1776 Avenue of the States
Lexington, KY 40511
859.244.8043 – office
(b) (6) [redacted] – cell
jsloan@csg.org
www.cleanairact.org

Yeow, Aaron

From: Karen Louise Akerlof <kakerlof@gmu.edu>
Sent: Tuesday, June 01, 2021 4:07 PM
To: Yeow, Aaron
Subject: Re: Invitation for Public Comment on the List of Candidates for EPA's Clean Air Scientific Advisory Committee (CASAC)
Attachments: KAkerlof CASAC Comment Crystal Upperman 060121.pdf

Dear Mr. Yeow:

I respectfully submit the attached comment in response to the list of candidates nominated to serve on the U.S. Environmental Protection Agency's (EPA) chartered Clean Air Scientific Advisory Committee (CASAC).

Dr. Crystal Upperman's broad experience and proven ability to work successfully with diverse groups to address the public health needs of communities make her an ideal candidate for the CASAC. I deeply encourage the appointment of Dr. Upperman as a member of this advisory board.

Sincerely,

Karen Akerlof

Karen Akerlof, PhD
Assistant Professor, Science Communication for Environmental Decision-Making and Policy
George Mason University
Department of Environmental Science and Policy
David King 3032
4400 University Dr., MS 5F2
Fairfax, VA 22030
(o) 703-993-7069 | (c) (b) (6) [redacted] | kakerlof@gmu.edu | Twitter @karenakerlof

Yeow, Aaron

From: Dan Greenbaum <DGreenbaum@healtheffects.org>
Sent: Tuesday, June 01, 2021 12:50 PM
To: Yeow, Aaron
Subject: One Additional Recommendation for CASAC

Dear Aaron:

I neglected to add one additional recommendation for potential CASAC membership to my message yesterday:

- **Dr. James Boylan** an experienced and knowledgeable state air quality official provided valuable input to CASAC over the past years; he is of course currently the Manager of the Planning & Support Program in the Air Protection Branch of the Georgia Environmental Protection Division.

Please let us know if you have additional questions or need further information.

Sincerely
Dan Greenbaum

Dan Greenbaum, President
Health Effects Institute
C: (b) (6) [redacted]
O: +1 617 488 2331
www.healtheffects.org
On Twitter @HEIresearch

Yeow, Aaron

From: Chad LaFontaine <clafontaine@metro4-sesarm.org>
Sent: Monday, May 31, 2021 11:20 PM
To: Yeow, Aaron
Subject: Letter of Recommendation for Dr. James Boylan
Attachments: 2021.06.01 Metro 4 SESARM Letter Boylan CASAC Recommendation.pdf

Dear Mr. Yeow,

Please see the attached letter of recommendation from Metro 4/SESARM for Dr. James Boylan to again be considered for CASAC. This recommendation represents ten states and seventeen local air agencies in the southeast. Thank you for the opportunity to provide this recommendation.

Thank you,

Chad LaFontaine, P.E.
Executive Director
Metro 4/SESARM
1252 W Government St. Unit 1375
Brandon, MS 39043
(cel) (b) (6)
clafontaine@metro4-sesarm.org

Yeow, Aaron

From: Rosemary Kennedy <Rosemary.Kennedy@connectamerica.com>
Sent: Monday, May 31, 2021 6:26 PM
To: Yeow, Aaron
Subject: Dr. Castner's nomination for CASAC

I support Dr. Castner's nomination for CASAC for the following reasons:

- Dr. Castner:
  - has published multiple research studies on the impact of air pollution on human health in several nursing and interdisciplinary journals that demonstrate her scientific and technical expertise needed to contribute to CASAC uniquely.
  - has both content and methodological expertise on one of the vital population epidemiology designs used by the EPA in the integrated science and standard-setting process
  - published research includes testing the associations of air pollutants and pollutant mixtures with population emergency department visits. Her depth of understanding as a clinician-scientist about the biological plausibility and validity of the outcome measures enable her critical contributions to CASAC.
  - is also a clinical expert in civic engagement and health care workforce education on the topics. Actively engaged in the American Academy of Nursing's expert panels as an active and reliable contributor, Dr. Castner demonstrates an availability and willingness to serve and a proven record of working constructively and effectively on interdisciplinary and nursing committees.
  - conducts herself with impartiality as a scientific advisor, well-versed in the scientific evidence and underlying uncertainties.
  - combines this impartiality with an exceptional ability to communicate scientific findings with people from all walks of life.
  - has served as a member of the Informatics and Technology Expert Panel of the American Academy of Nursing for three years.
- Her fellowship in the academy denotes substantial impact in the field with a national or international reach.

CASAC must include a member with nursing expertise. Nurses make up the largest proportion of any individual discipline in the entire health care field. Nurses have been voted by the public annually as the most trusted profession for nearly two decades. Further, in tribal, rural, and underserved communities where environmental justice issues are paramount to human health, nurses may be the only member of the health care team accessible to the public or with experience understanding health care needs in these populations.

In summary, I support Dr. Jessica Castner's nomination for CASAC.

Rosemary Kennedy, PhD, RN, MBA, FAAN
Chief Health Informatics Officer

Connect America
One Belmont Avenue
Bala Cynwyd, PA 19004
Mobile: (b) (6)
www.ConnectAmerica.com
dorit.baxter@connectamerica.com

Yeow, Aaron

From: Ron Sell <ronlin111@gmail.com>
Sent: Monday, May 31, 2021 2:14 PM
To: Yeow, Aaron
Subject: Jean Mendoza candidate for CASAC Board

From: Ron Sell, (b) (6)

To: Colleen Reimer

Re: Jean Mendoza candidate for EPA's Clean Air Scientific Advisory Committee

I'm a retired chemist who became involved with Friends of Toppenish Creek (FOTC) about two years ago, and I am now a member of their Board of Directors. I attribute my involvement in the organization to the Executive Director, Jean Mendoza, who is a passionate and tireless advocate for impoverished people in the Lower Yakima Valley. These people are subjected to air and groundwater pollution from industrial dairies (CAFOs) which have proliferated here in the last 30 years due to weak environmental laws in Yakima County.

The dairy industry is a major employer in the Lower Yakima Valley and enhances the tax base there. Through their lobbying efforts and political contributions, they have become exempt from the scrutiny of regulators. The Washington Department of Ecology has been àware of nitrate pollution of the groundwater in private wells in the Lower Yakima Valley for twenty years, but has only recently taken action to study the problem. Water in over 400 private wells is no longer potable and the number of contaminated wells grows yearly. The Yakima Regional Clean Air Agency is unsympathetic and unresponsive to the plight of the residents. Board members of that organization, which include a dairy employee but no environmentalists, have been openly hostile to Environmental Justice.

While Jean has been active in a number of local advisory committees, her opinions have often been marginalized because of her environmental credentials. She has been the lone voice advocating for victims of air and groundwater pollution, and has spent many years recording their complaints for presentations to regulators. When communicating with regulators, Jean presents herself in a calm and confident manner and has amassed an encyclopedic knowledge of Federal and Washington State regulations regarding pollution. Her arguments are carefully prepared and she actively solicits accountability and adherence to the laws from regulators.

I've never met anyone with her dogged determination. Under her leadership, FOTC has become instrumental in bringing public attention to air pollution and to nitrate contamination in the groundwater of the Lower Yakima Valley. As the sole spokesperson for some of the most vulnerable and environmentally burdened people, Jean works relentlessy for them without reward for her efforts... her motives are purely altruistic.

Jean is an intrepid environmentalist and her council would greatly benefit EPA's Clean Air Scientific Advisory Committee.

Yeow, Aaron

From: Dan Greenbaum <DGreenbaum@healtheffects.org>
Sent: Monday, May 31, 2021 11:35 AM
To: Yeow, Aaron
Subject: HEI Recommendations for CASAC Membership
Attachments: ATT00001.txt

Mr. Aaron Yeow,
Designated Federal Officer
Clean Air Scientific Advisory Committee
yeow.aaron@epa.gov

Dear Aaron:

The Health Effects Institute (HEI) is pleased to recommend several highly qualified candidates for appointment to the Clean Air Scientific Advisory Committee (CASAC). The recent roster of nominees was broad and impressive; from among these, and based on HEI's and my experience working with these individuals, we think the following would make very productive and expert additions to CASAC:

- **Dr. Judith Chow**, an accomplished and experienced atmospheric chemist, with special expertise in identifying sources of air pollution for air quality management, holds the Nazir and Mary Ansari Chair in Science and Entrepreneurialism and is a Research Professor in the Division of Atmospheric Sciences at the Desert Research Institute (DRI), Nevada System of Higher Education in Reno, Nevada

- **Dr. Charles T. Driscoll**, a noted expert in ecosystems impacts and air pollution, is a Distinguished and University Professor at Syracuse University

- **Dr. Mark W. Frampton**, a distinguished pulmonary physician, with experience both on CASAC and on the HEI Review Committee, is Professor Emeritus in Medicine in the Pulmonary and Critical Care division, at the University of Rochester Medical Center

- **Dr. Amy Herring**, a leading biostatistician and active, contributing member to the HEI Research Committee, is the Sara and Charles Ayres Distinguished Professor of Statistical Science at Duke University, and

- **Dr. Barbara Turpin**, an expert in exposure assessment and contributor to a number of air pollution exposure and health studies, is Department Chair and Professor of Environmental Sciences and Engineering in the Gillings School of Global Public Health at the University of North Carolina (UNC) at Chapel Hill

Also, although we recognize that this is not yet a call for members of a future EPA PM NAAQS Review Panel, we do want to note one additional candidate on the roster who we will strongly recommend for such a panel once constituted (and will separately make that recommendation at the right time):

- **Dr. Christina H. Fuller**, with experience in air pollution and community health effects, and an active participant in HEI's Research Review activities, is an Associate Professor of Environmental Health at the Georgia State University School of Public Health

We hope these recommendations are helpful, and would be lease to provide any additional information or answer any questions you might have.

Sincerely
Dan Greenbaum

Dan Greenbaum, President
Health Effects Institute
C: (b) (6) [redacted]
O: +1 617 488 2331
www.healtheffects.org
@HEIresearch

-

Yeow, Aaron

From: Kathy Pope <kathy.pope@environmentalprotectionnetwork.org>
Sent: Saturday, May 29, 2021 5:52 PM
To: Yeow, Aaron
Cc: JohnBachmann@bellsouth.net; Michelle Montoya
Subject: EPN Comments on the List of Candidates For the Environmental Protection Agency's Clean Air Scientific Advisory Committee
Attachments: EPN CASAC Candidates Comments.pdf

Mr. Yeow,

I hope you are well.

Attached, please find the Environmental Protection Network's comments on the List of Candidates for EPA's Clean Air Scientific Advisory Committee.

Thank you,
Kathy

--
Kathy Pope
Communications and Development Associate
Environmental Protection Network
kathy.pope@environmentalprotectionnetwork.org
Cell: (b) (6) [redacted]
www.environmentalprotectionnetwork.org

Yeow, Aaron

From: Hays, Karen <Karen.Hays@dnr.ga.gov>
Sent: Thursday, May 27, 2021 11:13 AM
To: Yeow, Aaron
Subject: CASAC Endorsement - Dr. James Boylan
Attachments: Georgia EPD CASAC Support Letter for Dr Boylan.pdf

Aaron Yeow:

On behalf of the Georgia Environmental Protection Division, Mr. Richard Dunn, Director, offers his endorsement of **Dr. James Boylan** in response to the U. S. Environmental Protection Agency Science Advisory Board's May 10, 2021 "*Invitation for Public Comment on the List of Candidates for the Environmental Protection Agency's Clean Air Scientific Advisory Committee*". Dr. Boylan is an excellent candidate for the CASAC vacancy. Dr. James Boylan understands the challenges of state air agencies, the role of EPA's CASAC, and is well qualified.

Thank you for your consideration of Mr. Dunn's endorsement.

Karen

SEE CHANGE IN CONTACT INFORMATION BELOW:
Karen Hays
Chief, Air Protection Branch
Georgia Environmental Protection Division
4244 International Parkway, Suite 120
Atlanta, GA 30354
NEW OFFICE Number: (470) 524-0680
Office: 404-363-7016 (will be deactivated soon)
Mobile: (b) (6) (no change)

Yeow, Aaron

From: Elizabeth Valencia (AQD) <Elizabeth.Valencia@Maricopa.gov>
Sent: Wednesday, May 26, 2021 2:46 PM
To: Yeow, Aaron
Cc: Philip McNeely (AQD)
Subject: Nomination of Dr. Matthew Pace to the Clean Air Scientific Advisory Committee
Attachments: 20210526120659641.pdf

Hello Mr. Yeow:

Please see attached nomination letter.

Thank you.

Elizabeth Valencia * Executive Assistant
Maricopa County Air Quality Department
3800 N. Central Avenue, Suite 1400 | Phoenix, AZ 85012
Desk: 602-506-6443 | Cell: (b) (6) [redacted] | Elizabeth.Valencia@maricopa.gov
Maricopa.gov/AQ | CleanAirMakeMore.com | Take Our Survey
Help Reduce Ozone Pollution. Drive Less, Refuel After Dark, and Avoid Idling.

Yeow, Aaron

From: Jesse Glickstein <jesse.glickstein@gmail.com>
Sent: Monday, May 24, 2021 12:47 PM
To: Yeow, Aaron
Subject: Comment on Dr. Crystal Upperman Re: Invitation for Public Comment on the List of Candidates For EPA's Clean Air Scientific Advisory Committee (CASAC)
Attachments: Jesse Glickstein_CASAC Comment - Crystal Upperman_May 24, 2021 .pdf

Mr. Yeow,

Please see attached for my comment on the nomination of Dr. Crystal Upperman to CASAC.

Many thanks,

Jesse Glickstein
(b) (6)

Yeow, Aaron

From: Mark Nieuwenhuijsen <mark.nieuwenhuijsen@isglobal.org>
Sent: Monday, May 24, 2021 3:58 AM
To: Yeow, Aaron
Subject: Support Christina Fuller
Attachments: MJN letter ISGlobal Christina Fuller.pdf

Dear Mr Yeow, please find attached my Support letter for Dr Fuller, bw Mark
Click here to see the air pollution levels and related mortality in your city

Mark J Nieuwenhuijsen PhD
Research Professor in Environmental Epidemiology
Director Air pollution and Urban Environment
Director Urban planning, Environment and Health Initiative
Editor-in-Chief Environment International
President International Society for Environmental Epidemiology

ISGlobal

Barcelona Institute for Global Health - Campus MAR
Barcelona Biomedical Research Park (PRBB)
Doctor Aiguader, 88
08003 Barcelona, Spain
Tel. +34 93 214 7337 | (b) (6)
Email: mark.nieuwenhuijsen@isglobal.org
Skype: mark.nieuwenhuijsen
Assistant: Mar Ferrer: (++34) 93 2147330

Projects
BlueHealth https://bluehealth2020.eu/
LifeCycle https://lifecycle-project.eu/
CitiesHealth http://citieshealth.eu/
iMAP https://www.isglobal.org/-/imap-barcelona
ICHEN https://ichen.site/
Expanse https://expanseproject.eu/
Athlete https://athleteproject.eu/
GoGreenRoutes https://gogreenroutes.eu/
Book COVID19 and the City – click here
Book Integrating Human Health into Urban and Transport planning:
https://www.springer.com/us/book/9783319749822

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Yeow, Aaron

From: Dean Effler <fotc94@gmail.com>
Sent: Tuesday, May 18, 2021 4:24 PM
To: Yeow, Aaron
Subject: Nomination to Clean Air Advisory Committee

I would like to nominate Jean Mendoza, RN for the Clean Air Science Advisory Committee. Her contact information is as follows:

(b) (6) [redacted]

Jean Mendoza has been a tireless advocate for clean water and clean air in the Yakima Valley in Washington state for over 15 years. She has been executive director of a small non-profit environmental group called Friends of Toppenish Creek (FOTC). Under her direction FOTC has been working with county, state and federal legislators and regulators to reduce the amount of air and water pollution caused by industrial agriculture. She uses evidence found in research and citizen science projects to highlight the problems caused by large, industrial dairies, biosolid applications to fields, and the failure of regulators to truly hold industries accountable for their practices. One of her strengths is delving into scientific research and producing detailed papers that describe the problem and the solutions. On any issue she is a bit like a bull dog with a bone. She won't let go until she has thoroughly defined the problem. She is a soft spoken woman but knows how to articulate a position with truth and firmness.

I highly recommender her as a promising addition to the Clean Air Science Advisory Committee.

Dean Effler MD, FAAP
(b) (6) [redacted]

Yeow, Aaron

From: Morton Alexander <mortonalexander@sisna.com>
Sent: Tuesday, May 18, 2021 3:01 PM
To: Yeow, Aaron
Subject: Nomination of Jean Mendoza

I write in support of Jean Mendoza to the CASAC.
I have collaborated with her in the the Washington State Sierra Club's Toxic/Waste committee, and found her to be a strong advocate for environmental justice for disenfranchised people in Central Washington State.
She is very diligent in mastering the science needed to present a strong and credible case.
Thank you.
Respectfully,
Morton Alexander
Co-founder of Protect Mill Canyon Watershed
(b) (6) [redacted]

Yeow, Aaron

From: Andres Martin (OBM) <Andres.Martin@maricopa.gov>
Sent: Friday, May 14, 2021 11:32 AM
To: Yeow, Aaron
Subject: U.S. EPA CASAC Nomination - Dr. Matthew Pace

Mr. Yeow,

I support Dr. Pace's nomination. Thank you.

Andres Martin
Ombudsman
Desk: (602) 506-0495
Cell: (b) (6) [redacted]
Andres.Martin@maricopa.gov

Yeow, Aaron

From: Omega Wilson <wera1usa@gmail.com>
Sent: Tuesday, May 11, 2021 2:41 PM
To: Yeow, Aaron
Cc: Adrienne Hollis; Adrienne Hollis
Subject: LETTER Recommendation for Adrianne Hollis to EPA CASAC
Attachments: LETTER Recommendation Adrenne Hollis - EPA CASAC - WERA Omega Wilson May 11 2021.pdf

Mr. Aaron Yeow, Designated Federal Officer – Email: yeow.aaron@epa.gov

U.S. Environmental Protection Agency

Science Advisory Board

Washington, DC

Attached letter: Recommendation for Adrienne Hollis, PHD

TO: EPA's Clean Air Scientific Advisory Committee (CASAC)

This letter of recommendation is submitted in support of Dr. Adrienne Hollis's application for Clean Air Scientific Advisory Committee (CASAC) at the U.S. Environmental Protection Agency, Washington, DC. Dr. Hollis has the academic, research background, and ground-level knowledge to prioritize improving the quality of life of impacted communities.

Dr. Adrienne Hollis will be a win-win for EPA, CASAC, and the Biden-Harris Administration. I give her my highest recommendation. If you have any additional questions, please let me know.

Sincere respect and appreciation for a scientist who cares,

Omega Wilson, Co-Founder, West End Revitalization Association, Non-profit 501-c-3 (1995)

West End Revitalization Association (WERA)

"We are not getting the basic public health amenities that our taxes pay for!"

PO Box 661

Mebane, NC 27302

Email: wera1usa@gmail.com

Cell: (b) (6)

Original Web: wera-nc.org

Yeow, Aaron

From: Harrington, Arthur <ajharrin@gklaw.com>
Sent: Monday, May 10, 2021 9:42 PM
To: Yeow, Aaron
Subject: Nomination of Prof. Tracey Holloway for CASAC Membership

Dear Mr. Yeow:

I understand the Prof. Holloway's name has been submitted for nomination to this important committee. I am writing this e-mail to provide my strong recommendation for her nomination. I have served with Prof. Holloway for 5 years as a member of the 12 person Air Management Study Group for the Wisconsin Department of Natural Resources. Prof. Holloway as provided thoughtful and cutting edge comments during the deliberations of the AMSG over the years on important matters of air regulation impacting the public in our State. I am confident that she will provide that same type of input on the important deliberations for the CASAC.

I hope you find this brief e-mail in support of her nomination useful. Please include this in the public record with I understand will close on June 1 for this nomination process.

Best regards,

Arthur Harrington | Attorney
414.287.9414 direct
(b) (6) [redacted] mobile
ajharrin@gklaw.com

GODFREY KAHN
833 E. Michigan Street, Suite 1800 | Milwaukee, Wisconsin 53202-5615

TOP WORK PLACES 2021

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Jesse Glickstein
(b) (6) [redacted]
Jesse.Glickstein@gmail.com

May 24, 2021

Mr. Aaron Yeow
Designated Federal Officer (DFO), Clean Air Scientific Advisory Committee
U.S. Environmental Protection Agency Headquarters
William Jefferson Clinton Building
1200 Pennsylvania Avenue, N.W.
Mail Code: 1400R
Washington, DC 20460
Via Email: yeow.aaron@epa.gov

Re: Invitation for Public Comment on the List of Candidates For EPA's Clean Air Scientific Advisory Committee (CASAC)

Dear Mr. Yeow:

I respectfully submit this comment in response to the list of candidates nominated to serve on the U.S. Environmental Protection Agency's (EPA) chartered Clean Air Scientific Advisory Committee (CASAC). CASAC plays an important role under the Clean Air Act in providing expert advice to EPA that includes reviewing EPA's air quality criteria and national ambient air quality standards developed under Clean Air Act (CAA) sections 108 and 109, as well as providing EPA with other related scientific and technical advice.

On May 10, 2021, EPA's Science Advisory Board (SAB) issued a "Invitation for Public Comment on the List of Candidates for the CASAC." CASAC is a seven-member Federal Advisory Committee (FAC) tasked with providing EPA independent scientific advice related to the national ambient air quality standards (NAAQS). I am an environmental and human rights attorney for a Fortune 500 company. I have worked in both the non-profit and private sectors around environmental issues, including those that impact public health and environmental justice issues.

The EPA has long been criticized for the lack of fresh perspectives on the CASAC when accessing balance on the panel. This notion of perspectives stems from EPA's Peer Review Handbook instructing that the Agency "rotate membership among qualified scientists to obtain fresh

perspectives and reinforce the reality and perception of independence."[1] These fresh perspectives often arise with the introduction of candidates who understand the human element and interdisciplinary impacts of EPA's decisions; this is the reason why strong consideration should be given to Dr. Crystal Upperman.

Dr. Upperman leads the integration of public health information and informed risk characterization into Aclima's air pollution and greenhouse gas measurement and analysis products. In her prior roles, she was a Senior Research Associate at the World Resources Institute on the Global Commission on Adaptation, at AECOM she was the Climate Adaptation and Resilience Lead for the Southeast US, Latin America, and the Caribbean, and she managed the CDC's Building Resilience Against Climate Effects (BRACE) program for Maryland Department of Health. She worked as an environmental regulator, very early in her career, for the New Jersey Department of Environmental Protection and the Georgia Environmental Protection Division's Ambient Air Quality Program. Crystal's research focus is in exposure science and spatial epidemiology and has included a national assessment of the impact of climate change, pollen exposure, and extreme heat on chronic respiratory diseases. Crystal is a Trustee of The Nature Conservancy, and is an Advisory Board Member for the American Public Health Association's Center for Climate, Health, and Equity. Crystal earned a PhD in Marine, Estuarine, and Environmental Science from the University of Maryland as a U.S. EPA Science to Achieve Results Fellow and an NSF Louis Stokes Alliance for Minority Participation Fellow, a Master of Public Administration in Nonprofit Management from Kennesaw State University, and a Bachelor of Science in Environmental Science from Spelman College.

Dr. Upperman's background and experience reflects the rigor and acumen necessary to help the U.S. EPA make informed environmental actions to protect public health. I have direct experience working with Dr. Upperman through our volunteer work on an environmental justice policy committee this past summer. The EPA should consider Dr. Upperman based on her credentials, experience, expertise, and the fresh perspective (based on all the reasons stated above) that she will offer the U.S. EPA with respect to scientific advice related to the NAAQS. Dr. Upperman's appointment to CASAC would be evidence that the U.S. EPA is actually seeking those professionals with wide ranging professional experience that can provide advise based on credible science in order to protect the most vulnerable in our society.

Sincerely,

Jesse Glickstein

Jesse Glickstein

---

[1] Environmental Protection Agency, Science and Technical Policy Council, Peer Review Handbook, 4th Ed. (Oct. 2015). https://www.epa.gov/sites/production/files/2020-08/documents/epa_peer_review_handbook_4th_edition.pdf

Department of Environmental Science and Policy
4400 University Drive, MS 5F2, Fairfax, Virginia 22030
Phone: 703-993-1043; Fax: 703-993-1066

June 1, 2021

Mr. Aaron Yeow
Designated Federal Officer (DFO), Clean Air Scientific Advisory Committee
U.S. Environmental Protection Agency Headquarters
William Jefferson Clinton Building
1200 Pennsylvania Avenue, N.W.
Mail Code: 1400R
Washington, DC 20460

Re: Invitation for Public Comment on the List of Candidates for EPA's Clean Air Scientific Advisory Committee (CASAC)

Dear Mr. Yeow:

I respectfully submit this comment in response to the list of candidates nominated to serve on the U.S. Environmental Protection Agency's (EPA) chartered Clean Air Scientific Advisory Committee (CASAC). I have known Dr. Crystal Upperman for almost a decade. While obtaining her doctorate in Marine, Estuarine, and Environmental Science from the University of Maryland, she also managed the CDC's Building Resilience Against Climate Effects (BRACE) program for Maryland Department of Health. We were both working on climate change and health in Maryland during that time and have since collaborated on two peer-reviewed academic papers, one of which addresses social vulnerability and public health effects from climate change.

Dr. Upperman's research expertise lies in exposure science and spatial epidemiology—clearly a relevant research area for the Clean Air Scientific Advisory Committee. Notably, she has conducted an EPA-funded national assessment of the impact of climate change, pollen exposure, and extreme heat on chronic respiratory diseases. But Dr. Upperman would make a remarkable contribution to the CASAC particularly due to her breadth of expertise in working at the nexus of policy and the science of air pollution and climate change risks to public health, especially in respect to environmental justice. She has demonstrated consistent capacity to cross the boundaries of science and policy, collaborating effectively with decision-makers, industry, researchers, and communities. Moreover, Dr. Upperman has shown leadership in addressing air pollution and climate change at state, national, and international levels.

She currently leads the integration of public health information and informed risk characterization into Aclima's air pollution and greenhouse gas measurement and analysis products. In prior roles, she served as Senior Research Associate at the World Resources Institute on the Global Commission on Adaptation, and while at AECOM she was the Climate Adaptation and Resilience Lead for the Southeast US, Latin America, and the Caribbean. Further, she has experience working as an environmental regulator for the New Jersey Department of Environmental Protection and the Georgia Environmental Protection Division's Ambient Air Quality Program.

Dr. Upperman's broad experience and proven ability to work successfully with diverse groups to address the public health needs of communities makes her an ideal candidate for the CASAC. I deeply encourage the appointment of Dr. Upperman as a member of this advisory board.

Sincerely,

Karen L. Akerlof, PhD
Assistant Professor, Science Communication for
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Dear Members of the US EPA Science Advisory Board

My name is Wig Zamore and I have spent roughly 50,000 pro bono hours trying to create a healthier, more sustainable and more equitable mix of land use, transportation, environment and public health at multiple spatio-temporal scales. I have been fortunate to have many grass roots and academic partners in these efforts. Together we have affected billions of dollars of land use and transportation change at local and regional scale. And I remain hopeful with regard to achieving a similar level of progress with environmental health across all spatio-temporal scales. While the last 50 years have seen great achievements at regional environmental health scale, with especially impressive progress due to large reductions in US ozone and PM2.5 and the removal of lead from gasoline, huge challenges remain at both global and nano scales. The global challenges and some segments of its solutions are known. We "just" have to execute before doing too much more damage. The nano scale challenges unfortunately are not that well known within the community of scientists focused on ambient air pollution. But they may be equally important over the next generation.

The health effects of particulate matter, both direct effects and those operating in synergy with other vectors of disease, are largely driven through inflammasome biology. And more specifically through the NLRP3 inflammasome which reacts to both Pathogen Associated Molecular Patterns (PAMPs) and Damage Associated Molecular Patterns (DAMPs). Uniquely, among the 22 currently known human inflammasomes, which generate IL-1 family cytokines, NLRP3 reacts to and integrates reaction to both metabolic signals and endogenous and exogenous particles, especially those that are nano-scale. Nano adjuvants work through NLRP3, as do occupational fibres and particles like asbestos and stone dust and silica. Similarly, solidified LDL, amyloid tau particles, crystallized uric acid, hydroxy apatite, etc., work through NLRP3. So do tobacco smoke and ultrafine particle concentrations from large scale transportation sources like highways and aviation related to major metropolitan airports. The new CASAC will need to deal with these challenges across spatiotemporal scales. Almost any combination of the following 15 scientists could help with these challenges.

With Best Regards, Wig Zamore

(b) (6) [redacted]

Sara Adar	Christina Fuller	Joel Schwartz
Michelle Bell	Joel Kaufman	Noelle Selin
Judy Chow	Michael Kleinman	Helen Suh
Deborah Cory-Slechta	Sally Ng	George Thurston
Mark Frampton	Andrea Polidori	Barbara Turpin

CURRICULUM VITAE
October 2020

NAME: **JOEL SCHWARTZ**

ADDRESS: (b) (6) [redacted]

PLACE OF BIRTH: (b) (6) [redacted]

EDUCATION:

1969	B.A.	Brandeis University
1980	Ph.D.	Brandeis University (Theoretical Physics)
2010	M.D.	University of Basel, Honorus Causa

ACADEMIC APPOINTMENTS:

2005 to present	Professor of Environmental Epidemiology, Harvard School of Public Health Director, Harvard Center for Risk Analysis
1994 -2004	Associate Professor of Environmental Epidemiology, HSPH
1994 -	Associate Professor of Medicine, Harvard Medical School
1991-1993	Lecturer, Department of Environmental Health, Harvard School of Public Health

HOSPITAL APPOINTMENTS:

1994 -	Associate Epidemiologist, Brigham and Women's Hospital

OTHER PROFESSIONAL POSITIONS AND MAJOR VISITING APPOINTMENTS:

1977-1979	Legislative Assistant for Energy and Environment, Congressman Timothy Wirth
1979-1987	Staff Scientist, U.S. Environmental Protection Agency
1987-1988	Visiting Scientist, Department of Biostatistics, Harvard School of Public Health
1989,1994	Visiting Scientist, Department of Social and Preventive Medicine University of Basel, Switzerland
1990	Visiting Scientist, Department of Occupational Safety and Environmental Health University of Wuppertal, Germany
1989-1993	Senior Scientist, U.S. Environmental Protection Agency

HONORS AND DISTINCTIONS:

2008	John Goldsmith Career Achievement Award, International Society for Environmental Epidemiology
2001	Nichols Teaching Award, Harvard School of Public Health
2001	International Union of Environmental Protection Agencies World Congress Award

1999	Twentieth Century Distinguished Service Award, Lukacs Symposium for Statistical Ecology and Environmental Statistics
1991	John D and Catherine T MacArthur Fellowship
1984,1986	U.S. Environmental Protection Agency Silver Medal
1988-89-90-92,14	U.S. Environmental Protection Agency Scientific Achievement Award
1991	Alumni Achievement Award, Brandeis University

MAJOR COMMITTEE ASSIGNMENTS:

National

1985	Preventing Lead Poisoning in Young Children document, Consultant, Centers for Disease Control
1988	Advisory Committee, Boston Soil Lead Study
1989-1992	EPA Environmental Health Review Panel, Environmental Protection Agency
1989-1993	National Academy of Science, Committee on Assessing Lead Exposure in Critical Populations
1990-1993	National Academy of Science, Committee on Environmental Epidemiology
1992	Advisory Committee, Resources for the Future Center for Risk Management, Public Health/ Environmental Health Risk Studies
1992	Environmental Epidemiology Advisory Committee, Pew Memorial Trusts
1992	Ethics Committee, International Society for Environmental Epidemiology
1992	Reviewing Committee, Office of Technology Assessment for Identifying and Controlling Pulmonary Toxicants
1992-6	Technical Advisory Committee, Alliance to End Childhood Lead Poisoning
1992	Technical Advisory Committee, New York State Environmental Externalities Cost Study
1993	Subcommittee on Lead, National Advisory Committee on Environmental Policies and Technology
1993-2002	Research Advisory Committee, National Center for Lead Safe Housing
1994-2002	Center for Disease Control, Advisory Committee on Childhood Lead Poisoning Prevention
1994-2005	Mickey Leland National Urban Air Toxic Research Center, Scientific Advisory Panel
1995-7	Environmental Statistics Subcommittee, National Advisory Committee on Environmental Policy and Technology
1998	Franklin Institute Science Medal Prize Committee
2003-2005	HSPH Disciplinary Committee, Chair
2004-present	Steering Committee, Harvard University Center for the Environment
2005	EPA Science Advisory Board, Ad Hoc All Ages Lead Committee
2005-2008	Councilor, International Society for Environmental Epidemiology
2005-2010	Editorial Board, American Journal of Respiratory and Critical Care Medicine
2005-2008	EPA Lead Clean Air Science Advisory Committee
2014-17	National Research Council. Standing Committee on Use of Emerging Science for Environmental Health Decisions

International

1993-2004	European Economic Community Studies on Air Pollution, Daily Mortality, and Hospital Emergency Visits, Advisor

1993	Advisory Committee, European Economic Community Panel Studies on Air Pollution, Pulmonary Function, and Respiratory Function
2000-2004	Chair, Statistics Advisory Committee, APHEIS Project
2011-2016	Advisory Committee, Southeastern Center for Air Pollution and Epidemiology
2016-present	World Health Organization Global Platform on Air Quality and Health2019
2019	U.K. Medical Research Council, grant review committee
2020	U.K. Medical Research Council, Mission review committee

PROFESSIONAL SOCIETIES:

1987	American Statistical Association
1988	American Thoracic Society
1990	Society for Epidemiologic Research
1991	International Society for Environmental Epidemiology

Editorial Board

2003-4	Epidemiology Editor, International Journal of Biometeorology
2005-2010	Editorial Board, American Journal of Respiratory and Critical Care Medicine

MAJOR RESEARCH INTERESTS:

1. Respiratory Epidemiology
2. Air, Water and Lead Epidemiology
3. Epidemiologic Methods
4. Cost-Benefit Analysis
5. Exposure Assessment

TEACHING EXPERIENCE:

1992-2008	Environmental Epidemiology Course, University of Basel @ 30-40 Graduate Students 35 class hours
1994, 97,99,2009-12,14,18	Advanced Topics in Environmental Epidemiology, University of Basel, @ 20 Graduate Students, 35 class hours
1995	Short Course on Advanced Regression Analysis in Environmental Epidemiology, San Miniato, Italy @ 23 Graduate Students, 35 class hours
1996–present	Professor, ID 271 HSPH, joint course on Advanced Regression Analysis for Departments of Epidemiology, Environmental Health, and Biostatistics, 21 Graduate Students, 35 class hours
2010-2018	Professor, EPI 204, Methods for analyzing case control, cohort, and other studies, 100 graduate students, 35 class hours

2007-present	Professor, EH520 Seminar on preparing research proposals
2007-2011,16	Environmental Epidemiology, Cyprus International Institute
1998	European Course on methods for Poisson Time Series, Santorini Greece, @40 Graduate Students, 35 hours
1998	Short Course on Advanced Regression in Environmental Epidemiology, Annual meeting of International Society for Environmental Epidemiology, 45 Graduate Students, 7 hours
1999	European Course on methods of Meta-analysis. Santorini Greece, 40 students, 24 course hours
2006	Environmental Epidemiology, National Institute of Public Heath, Mexico 40 students 30 hours
2012	Topics in Environmental Epidemiology, Summer Institute, Tel Aviv University
2015	Causal Inference in Epidemiology, Sapiensa University, Rome Italy
2016,17	Environmental Epidemiology, Public Health Foundation of India, 48 hours
2018	Causal Modeling in Environmental Epidemiology, Public Health Foundation of India, 35 hours

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1. Pirkle J, **Schwartz J**, Landis R, Harlin W. The relationship between blood lead levels and blood pressure and its cardiovascular risk implications. Am J Epid 1985;121:246-258.

2. **Schwartz J**, Angle C, Pitcher H. Relationship between childhood blood lead levels and stature. Pediatrics 1986;77:281-288.

3. Marcus A, **Schwartz J**. Dose-response curves for erythrocyte protoporphyrin vs blood lead: Effect of iron status. Environ Res 1987;44:221-227.

4. **Schwartz J**, Otto D. Blood lead levels, hearing thresholds, and neurological development in NHANES II children. Arch Environ Health 1987;42:153-162.

5. **Schwartz J**, Landrigan PJ, Silbergeld E, Feldman R, Baker E, Von Lindern I. Does lead-induced peripheral neuropathy exhibit a threshold? J Pediatrics 1988;112:12-17.

6. Silbergeld E, **Schwartz J**, Mahaffey K. Lead and osteoporosis: Mobilization of lead from bone in postmenopausal women. Environ Res 1988;47:79-94.

7. **Schwartz J**, Haselblad V, Pitcher H. Air pollution and morbidity: A further analysis of the Los Angeles student nurses data. JAPCA 1988;38:158-162.

8. Davis D, **Schwartz J**. Trends in cancer mortality in U.S. white males and females, 1968-1983. Lancet 1988;633-636.

9. **Schwartz J**. The relationship between blood lead and blood pressure in the NHANES II survey. Environ Health Persp 1988;78:15-22.

10. **Schwartz J**, Katz S, Fegley R, Tockman M. Sex and race differences in the development of lung function. Am Rev Respir Dis 1988;138:1415-1421.

11. **Schwartz J**, Katz S, Fegley R, Tockman M. Analysis of spirometric data from a national sample of healthy 6-24 year olds. Am Rev Respir Dis 1988;138:1405-1414.

12. **Schwartz J**. Lung function and chronic exposure to air pollution: A cross-sectional analysis of NHANES II. Environ Res 1989;50:309-321.

13. **Schwartz J**, Pitcher H. The relationship between gasoline lead and blood lead in the United States. J Off Stat 1989;5:421-431.

14. **Schwartz J**, Landrigan PJ, Baker EL, Orenstein WA, Von Lindern IH. Lead induced anemia: Dose-response relationships and evidence for a threshold. Am J Pub Health 1990;80:165-168.

15. Davis DL, Hoel D, Percy C, Ahlbom A, **Schwartz J**. Is brain cancer mortality increasing in industrial countries? Ann New York Acad Sci 1990;609:191-204.

16. **Schwartz J**. Multinational trends in cancer mortality rates: Methodological issues and results. Ann New York Acad Sci 1990;609:136-145.

17. **Schwartz J**. Multinational trends in multiple myeloma. Ann New York Acad Sci 1990;609:215-224.

18. Crocetti AF, Mushak P, **Schwartz J**. Determination of numbers of lead-exposed women of childbearing age and pregnant women. Environ Health Perspect 1990;89:121-124.

19. Crocetti AF, Mushak P, **Schwartz J**. Determination of numbers of lead-exposed U.S. children by areas of the United States. Environ Health Perspect 1990;89:109-120.

20. **Schwartz J**, Marcus A. Mortality and air pollution in London: A time series analysis. Am J Epid 1990;131:185-194.

21. **Schwartz J**, Zeger S. Passive smoking, air pollution, and acute respiratory symptoms in a diary study of student nurses. Am Rev Respir Dis 1990;141:62-67.

22. **Schwartz J**, Gold D, Dockery DW, Weiss ST, Speizer FE. Predictors of asthma and persistent wheeze in a national sample of U.S. children: Association with social class, perinatal events and race. Am Rev Respir Dis 1990;142:555-562.

23. **Schwartz J**, Weiss ST. Dietary factors and their relationship to respiratory symptoms. NHANES II. Am J Epid 1990;132:67-77.

24. **Schwartz J**. Lead, blood pressure, and cardiovascular disease in men and women. Environ Health Perspect 1991;91:71-77.

25. **Schwartz J**, Dockery DW, Wypij D, Ware J, Zeger S, Spengler J, Speizer FE, Ferris BG Jr. Daily diaries of respiratory symptoms and air pollution: Methodological issues and results. Environ Health Perspect 1991;90:181-188.

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27. Chestnut LG, **Schwartz J**. Savitz DA, Burchfiel CM. Pulmonary function and ambient particulate matter: Epidemiological evidence from NHANES I. Arch Environ Health 1991;46:135-144.

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29. **Schwartz J,** Spix C, Wichmann HE, Malin E. Air pollution and acute respiratory illness in five German communities. Environ Res 1991;56:1-14.

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31. **Schwartz J**, Weiss ST. Host and environmental factors influencing the peripheral blood leukocyte count. Am J Epid 1991;134:1402-1409.

32. **Schwartz J**, Dockery DW. Particulate air pollution and daily mortality in Steubenville, Ohio. Am J Epid 1992;135:12-20.

33. Braun-Fahrlander C, Ackerman-Liebrich U, **Schwartz J**, Grehm HP, Rutishausser M, Wanner HU. Air pollution and respiratory symptoms in pre-school children. Am Rev Respir Dis 1992;145:42-47.

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40. **Schwartz J**, Weiss ST. Peripheral blood leukocyte count and respiratory symptoms. Ann Epid 1993;57-63.

41. **Schwartz J**, Koenig J, Slater D, Larson T. Particulate air pollution and hospital emergency visits for asthma in Seattle. Am Rev Respir Dis 1993;147:826-831.

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44. **Schwartz J**, Weiss ST. Prediction of respiratory symptoms by peripheral blood neutrophils and eosinophils in the First National Nutrition Examination Survey (NHANES I). Chest 1993;104:1210-1215.

45. **Schwartz J**. Air pollution and daily mortality in Birmingham, Alabama. Am J Epid 1993;137:1136-1147.

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48. **Schwartz J**. What are people dying of on high air pollution days? Environ Res 1994;64:26-35.

49. **Schwartz J**. Air pollution and daily mortality: A review and meta-analysis. Environ Res 1994;64:36-52.

50. **Schwartz J**. Low level lead exposure and children's IQ: A meta-analysis and search for a threshold. Environ Res 1994; 65:42-55.

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53. **Schwartz J**. $PM_{10,}$ ozone, and hospital admissions for the elderly in Minneapolis-St. Paul, Minnesota Arch Environ Health 1994; 49:366-374.

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56. **Schwartz J**. Air pollution and hospital admissions for the elderly in Detroit, MI. Am J Respir Crit Care Med 1994; 150:648-655.

57. **Schwartz J**, Weiss ST. The relationship of dietary fish intake to level of pulmonary function in first National Health and Nutrition Examination Survey (NHANES). Europ Respir J 1994; 7:1821-1824.

58. **Schwartz J**, Weiss ST. Cigarette smoking and peripheral blood leukocyte differentials. Ann Epid 1994; 4:236-242.

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66. Schwartz J and Weiss ST. Relationship of skin test reactivity to decrements in pulmonary function in children with asthma or frequent wheezing. Am J Respir Crit Care Med 1995;152:2176-2180.

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a. Pub Health 1995;85(11):1343-1345.

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1. **Schwartz J**. The benefits of reducing lead in gasoline: 1974-1980. In: Mobile source issues of the 1980's. Air Pollution Control Association; 1984:27-39.

2. **Schwartz J**, Marcus A. Statistical reanalysis of data relating mortality to air pollution during London winters 1958-1972. US EPA, 1987:1-43.

3. Cohen J, Marcus AH, **Schwartz J**. The use of exposure analysis and risk assessment in EPA regulations on atmospheric lead. Air Pollution Control Association, 1987:82-89.

4. **Schwartz J**, Dockery DW, Ware JH, Spengler JD, Wypij D, Koutrakis P, Speizer FE, Ferris BG Jr. Acute effects of acid aerosols on respiratory symptom reporting in children. Air Pollution Control Association, 1989;1:89-92.

5. **Schwartz J**. Lead, blood pressure and cardiovascular disease. In: Needleman H, ed. Human lead exposure; Boca Raton, FL: CRC Press, 1992:223-232.

6. **Schwartz J**. Low level health effects of lead: Growth, development, and neurological disturbances. In: Needleman H, ed. Human lead exposure. Boca Raton, FL: CRC Press, 1992:233-242.

7. **Schwartz J**. Health effects of air pollution. In: Cothern CR and Ross NP, eds. Environmental statistics, assessment, and forecasting. Boca Raton, FL: Lewis Publications, 1993:230-238.

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11. **Schwartz J**. Health Effects of Particulate Air Pollution: Is there a threshold? In Mohr U. Ed. Relationship between Respiratory Disease and Exposure to Air Pollution. ILSI Press, Washington DC, 1998.

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1. **Schwartz J**, Pitcher H, Levin R, Ostro B, Nichols A. The costs and benefits of reducing lead in gasoline. Washington, DC: US Environmental Protection Agency, February 1985; EPA 230-05-85-006. 400pp.

2. The nature and extent of lead poisoning in children in the United States: A report to congress. [Contributing Author] Atlanta, GA: Agency for Toxic Substances and Disease Registry, 1988. 400pp.

3. Environmental Epidemiology: Vol 1 Public health and hazardous waste. Committee on Environmental Epidemiology (Bates D, Chalmers T, Coye MJ, Froines J, Hoel D, Miller AB, **Schwartz J**) Washington, DC: National Academy Press, 1991. 282pp.

4. Bellinger DC, Bornschein RL, Chisolm JJ, Falk H, Flegal AR, Fowler BA, Mahaffey KR, Mushak P, Rosnen JF, **Schwartz J**, Skogerboe RK. Measuring lead exposure in infants, children, and other sensitive populations. Washington, D.C.: National Research Council, National Academy Press, 1993:1-337.

5. Medina S, Plasencia A, Artazcoz L, Quenel P, Katsouyanni K, Mucke HG, De Saeger E, Krzyznowsky M, **Schwartz J.** and members of the APHEIS group. APHEIS: Monitoring the Effects of Air Pollution on Public Health in Europe. Scientific Report 1999-2000. Institute de Veille Sanitaire, Saint-Maurice, France 2001 136 pp.

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Doctoral Students

Advisor:

past

Tom Bateson	HSPH Epidemiology "Case Crossover Design for Environmental Time Series"
Greg Wellenius	HSPH, Epidemiology "Air pollution and Congestive Heart Failure"
Sung Kyung Park	HSPH, Environmental Health "Genetic polymorphisms, heart rate variability, and environmental exposures to metals and air pollution"
Cathryn Tonne	HSPH, Environmental Health and Epidemiology, "Pollution and social position as predictors of Heart Attacks and survival in a population based study"
John McCracken	HSPH, Environmental Health and Epidemiology, "Cardiovascular effects following interventions with clean cooking stoves in rural Guatemala"

Elissa Wilker	HSPH, Environmental Health “Gene-Environment Interactions in the effects of air pollution and lead”
Sara Cabelli	HSPH, Epidemiology
Angeliki Lambrou	HSPH, Environmental Health
Jaime Madrigano	HSPH, Epidemiology
Marie-Abele Bind	HSPH, Environmental Health, Biostatistics
Mye-Hi Lee	HSPH, Environmental Health
Lingzhen Dai	HSPH, Environmental Health
Liuhua Shi	HSPH, Environmental Health
Yara Abu Awad	HSPH, Environmental Health
Kelvin Fong	HSPH, Environmental Health
Qian Di	HSPH, Environmental Health
Yan Wang	HSPH, Environmental Health, Biostatistics
Madieh Danesh Yazdi	HSPH, Environmental Health
Massimo Stafogia	Karolinska Institute, Epidemiology
Yaguang Wei	HSPH, Environmental Health

Current Students:

Xinye Qiu	HSPH, Environmental Health
Edgar DeCastro	HSPH, Environmental Health
Krishna Bhargav	HSPH, Environmental Health

Doctoral Committee

past

Chava Peretz	Univ of Utrecht, Epidemiology “Longitudinal Models for Lung Function in Children”
Antonella Zanobetti	University of Florence, Applied Statistics “A Nonparametric Distributed Lag Model to Evaluate Harvesting in the association between Air Pollution and Daily Deaths”

Yawen Cheng	HSPH Epidemiology “Lead, Hypertension, and Cardiovascular Disease”
Elizabeth Platz	HSPH Epidemiology “Thorotrast Exposure and Cancer in radiology patients”
Jeremy Sarnat	HSPH, Environmental Health “Exposure Error in Time Series Studies of Air Pollution”
Paul Stark	HSPH, Environmental Health “Asthma and aeroallergen exposure”
Sharon Tsaih	HSPH, Epidemiology “Biomarkers of Lead and Bone Turnover and Their Relationship to Kidney Function”
Hung Yi-Chuang	HSPH Environmental Health “Structural Equation Models for Lead Exposure of the Fetus, Lead and Vibration Threshold in Battery Plant Workers”
Hae Kwang Cheong	HSPH Environmental Health “Longitudinal model of the cognitive effects of lead”
Kirsi Timonnen	University of Kuopio, Finland Epidemiology “Air Pollution and Respiratory Health of Children”
Michael Wright	HSPH Environmental Health “Exposure to mutagens in drinking water, Effects of Drinking water on Pregnancy Outcome”
Shannon Magari	HSPH, Environmental Health “Cardiovascular Responses to Occupational and Environmental Particulate Exposure”
Hsing Jasmin Chao	HSPH, Environmental Health “Longitudinal Variations in Office Building Fungi and their Associations with Work–Related Symptoms”
Adrienne Ettinger	HSPH, Environmental Health. “Dietary and Environmental Determinants of Endogenous Exposure to Lead over the Course of Lactation”
Sunyeong Park	HSPH, Cancer and Cell Biology “Gene-Environment Interactions in Bladder Cancer”
R Graham Barr	HSPH, Epidemiology “Prospective Study of Hormone Replacement Therapy and Risk of Asthma or Chronic Obstructive Pulmonary Disease among Postmenopausal Women”
David Rich	HSPH, Environmental Health, “Ambient Air Pollution and the Risk of Cardiac Arrhythmias detected by implatable cardioverter defibrillators”
Stephanie Ebelt	HSPH, Environmental Health “Personal Exposure, ambient concentrations, and cardiovascular responses in a panel of elderly”
Hailay D Teklehaimanot	HSPH, Epidemiology “Modeling Malaria Epidemics”
Alexandros Gryparis	HSPH, Biostatistics “Geostatistical modeling with missing data”
Jane Burns	HSPH, Environmental Health “Diet, Air Pollution, and Respiratory Health”

Florence Wang	HSPH, Environmental Health “Determinants and Genetic Modifiers of Lead Burden and cognition”
Sara Dubowski	HSPH, Environmental Health “Acute Cardiopulmonary Responses to Traffic-Related Particles in St. Louis Senior Adults”
Mark Weisskopf	HSPH, Epidemiology. “Predictors of cognitive decline in aging and Parkinsonism”
Pradeep Rajan	HSPH, Environmental Health “Genetic polymorphisms, lead exposure, and mini mental status exams in a cohort of elderly”
Jeff Yanoski	HSPH, Environmental Health “Estimating Chronic Particulate and Gaseous Air Pollutant Exposures Using GIS-Based Spatio-Temporal Models”
Meredith Franklin	HSPH, Environmental Health “Modeling Ground and Space-Based particle Measurements with Application to Environmental Epidemiology”
Denise Felber	University of Basel, Epidemiology and Preventive Medicine
Jenn Cavallari	HSPH, Environmental Health
Jens Levy	UNC, Epidemiology
Ami Zota	HSPH, Environmental Health
Amar Mehta	HSPH, Environmental Health
Ananya Roy	HSPH, Environmental Health
Paul Brochu	HSPH, Environmental Health
Birgit Clauss Henn	HSPH, Environmental Health
Emmanuel Baja	HSPH, Environmental Health
Eizabeth Mostofsky	HSPH, Epidemiology
Jessica Hartman	HSPH, Epidemiology
Melinda Power	HSPH, Environmental Health
Tamar Sofer	HSPH, Biostatistics
Pascal Beaudeau	School of Public Health, Rennes
Jennifer Nguyan	HSPH, Environmental Health
Behrooz Behbod	HSPH, Environmental Health

Marianthe-Anna Koumourtzoglou	HSPH, Environmental Health
Elena Austin	HSPH, Environmental Health
Thuy Lam	HSPH, Environmental Health
John Ji	HSPH, Environmental Health
Alina Vodonos	Ben Gurion University, Environmental Health
Kirsten Dorans	HSPH, Epidemiology
Wenyuan Li	HSPH, Epidemiology
Souzana Achilleos	HSPH, Environmental Health
Cheng Peng	HSPH, Environmental Health
Joseph Antonelli	HSPH, Biostatistics
Annelise Blomberg	HSPH, Environmental Health
Dimitris Evangelopoulos	Kings College London, Epidemiology
Adjani Peralta	HSPH, Environmental Health

Current Students:

Nich Arisco	HSPH, Social and Behaviroal Health
Jessie Tang	HSPH, Environmental Health
Man Liu	HSPH, Environmental Health
Barrak A	HSPH, Environmental Health

Postdoctoral Fellows:

Antonella Zanobetti	"Air Pollution and Hospital Admissions"
Christian Schindler	(from Univ of Basel) "Air Pollution and Peak Flow Measures in Asthmatic Adults"
Arnoud Verhoef	(from Univ of Waggeningen) "Air pollution and daily mortality in Amsterdam, the Netherlands"

Gerard Hoek	(from Univ of Waggeningen) “Effects of ambient particulate matter and ozone on daily mortality in Rotterdam, the Netherlands.”
Alain le Terte	(from National Institute for Public Health Surveillance, Paris) “Air Pollution and Emergency Visits for Asthma in Paris”
Claudia Spix	(from Univ of Wuppertal) “Air Pollution and Daily Deaths”
Paolo Saldiva	(from University of Sao Paolo) “Air pollution and mortality in elderly people: A time series study in Sao Paolo, Brazil”
Erica von Mutius	(Ludwig Maximillian University, Munich) “Dietary factors and Asthma”
Marie O’Neill	“Social factors in the dependence of mortality on air pollution and weather”
Tom Bateson	“Selection Bias and Confounding in Case- Crossover Analyses of Environmental Time Series Data”
Amanda Wheeler	“Air pollution and heart rate variability”
Dawn Demeo	“Air pollution and oxygen saturation in the elderly”
Francine Laden	“Association of fine particulate matter from different sources with daily mortality in six US cities.”
Nicole Janssen	“Air conditioning and combustion related particles as modifiers of the effect of PM10 on hospital admissions for heart and lung diseases”
Eun-Hee Ha	“Is air pollution a risk factor for low birth weight in Seoul?”
Jon-Tae Lee	“Bidirectional case-crossover studies of air pollution: bias from skewed and incomplete waves.”
Ahmed Gomaa	“Pre and Postnatal lead exposure and children’s cognitive function”
Sahar Elmarsafawy	“Interaction of lead and calcium in predicting hypertension”
Alfesio Braga	“The time course of weather related deaths”
Yon-Chul Hong	“Effects of Air Pollutants on Acute Stroke Mortality”
Babette Brumback	“Transitional Regression Models with Application to Environmental Time Series”
Ariana Zeka	“Effects of Air pollution on Pregnancy Outcomes”
Andrea Baccarelli	“Cardiovascular Effects of Air Pollution”
Mercedes Medina-Ramon	“Effects of traffic pollution on survival of heart failure patients”
Alexandros Gryparis	“Spatio-Temporal modeling of traffic related air pollution and birth outcomes”

Nicos Middleton	“Traffic related pollution and mortality”
Stephanie von Klot	“GIS based Exposure to Heat, Mortality, and Myocardial Infarctions”
Elvira Vaclavik	“Case-Crossover Analysis of susceptibility to air pollution”
John McCracken	“Cardiovascular Effects of Wood Smoke Exposure in Guatemala”
Cizao Ren	“Gene Environment interactions and Air Pollution”
Jaana Halonen	“ Physiologic effects of Temperature”
Itai Kloog	“Spatio-temporal particle models and health”
Johanna Lepeule	“Epigenetics and Pulmonary Health”
Francesco Nordio	“Spatially resolved particle exposure and health”
Amar Mehta	“Epigenetics, Environment, and Cardiovascular Disease”
Serena Fossati	“Micro RNAs, air pollution, and health”
Irina Mordukhovich	“Epigenetic effects of heavy metals”
Jonathan Buonacore	“Health Benefits Analysis of Controlling Fires in Indonesia”
Mihye Lee	Air Pollution, Temprature and Mortality
Bind, Marie-Abele	“Causal and Mediation Analysis for Environmental Epidemiology”
Yara Abu Awad	“Causal Models for Air Pollution and Mortality”
Alina Vodonos	“Improving Risk Assessments”
Ma’ayan Yitshak Sade	“Air pollution and Health”
Heresh Amini	“Predicting particle component exposure over the US”

Current Fellows

Alexandra Shtein	“Predicting Air Pollution using Machine Learning”
Adjani Peralta	“Quasi-experimental methods for air pollution and health”
CuiCui Wang	“Epigenetic effects of particles”

Feiby Nassan "microRNA, metabolomics, and environmental exposure"

Yaguang Wei

Mahdieh Danesh Yazdi

RECENT RESEARCH ACTIVITIES AND FUNDING

National Instutute of Health

R01ES032418 Feb 1, 2021 - Nov 30, 2024
NIH
Identifying low dose measurement error corrected effects of multiple pollutants using causal modeling
Role: Principal Investigator

R01ES027747 Sep 30, 2017 - Jul 31, 2022
NIH
Air Particulate, Metals, and Cognitive Performance in an Aging Cohort- Roles of Circulating Extracellular Vesicles and Non-coding RNAs
Role: Principal Investigator

U2RTW010108 Sep 28, 2015 - Aug 31, 2020
NIH
2/2-Air Pollution and Health GeoHealth Hub Research and Capacity Building-US
Role: Co-Principal Investigator

U01TW010097 Sep 28, 2015 - Sep 30, 2017
NIH
Air Pollution and HealthGeoHealth Hub Research and Capacity Building
Role: Co-Principal Investigator

R21AG040027 Sep 1, 2011 - Aug 31, 2014
NIH
The Physiologic Response to Weather Changes and Extremes in an Elderly Cohort
Role: Principal Investigator

Environmental Protection Agency

R835872C003 Dec 1, 2015 - Nov 30, 2020
Project 3: Causal Estimates of Effects of Regional and National Pollution Mixtures on Health: Providing Tools for Policy Makers
Role: Principal Investigator

R835872 Dec 1, 2015 – Nov 30, 2020
Regional Air Pollution Mixtures: The past and future impacts of emissions controls and climate change on air quality and health
Role: Co- Investigator

R835872C001 Dec 1, 2015 - Nov 30, 2020
Project 1: Regional Air Pollution Mixtures: The Past and Future Impacts of Emission Controls and Climate Change on Air Quality and Health
Role: Co- Investigator

R835872C002 Dec 1, 2015 - Nov 30, 2020
Project 2: Air Pollutant Mixtures in Eastern Massachusetts: Spatial Multi-resolution Analysis of Trends, Effects of Modifiable Factors, Climate and Particle-induced Mortality
Role: Co- Investigator

R835872C004 Dec 1, 2015 - Nov 30, 2020
A Causal Inference Framework to Support Policy Decisions by Evaluating the Effectiveness of Past Air Pollution Control Strategies for the Entire United States
Role: Co- Investigator

R836156C001 Jul 1, 2015 - Jun 30, 2020
Multi-Exposure Epidemiology across the Life Course Centers
Role: Co- Investigator

R834798C002 Jan 1, 2011 - Dec 31, 2015
Cognitive Decline, Cardiovascular Changes, and Biological Aging in Response to Air Pollution
Role: Principal Investigator

R834798 Jan 1, 2011 – Dec 31, 2015
Air Pollution Mixtures: Health Effects Across Life Stages
Role: Co- Investigator

R834798C003 Jan 1, 2011 - Dec 31, 2015
Identifying the Cognitive and Vascular Effects of Air Pollution Sources and Mixtures in the Framingham Offspring and Third Generation Cohorts
Role: Co- Investigator

R834798C004 Jan 1, 2011 - Dec 31, 2015
Longitudinal Effects of Multiple Pollutants on Child Growth, Blood Pressure and Cognition
Role: Co- Investigator

R834798C005 Jan 1, 2011 - Dec 31, 2015
A National Study to Assess Susceptibility, Vulnerability, and Effect Modification of Air Pollution Health Risks
Role: Co- Investigator

R834900 April 1, 2011 - Mar 31, 2014
Are Diabetics and the Neurologically Impaired at Increased Risk from Air Pollutant Exposures? A National Analysis Grant
Role: Co- Investigator

R832416C001 Oct 1, 2005 - Sept 30, 2010
Cardiovascular Responses in the Normative Aging Study: Exploring the Pathways of Particle Toxicity
Role: Principal Investigator

R827353C004 June 1, 1999 - May 31, 2005
EPA
Examining Conditions That Predispose Towards Acute Adverse Effects of Particulate Exposures
Role: Principal Investigator

R827353C005 June 1, 1999 - May 31, 2005
EPA
Assessing Life-Shortening Associated with Exposure to Particulate Matter
Role: Principal Investigator

West End Revitalization Association (WERA)
"We are not getting the basic public health amenities that our taxes pay for!"
PO Box 661
Mebane, NC 27302
Email: wera1usa@gmail.com Cell: (b) (6) [redacted]
Original Web: wera-nc.org

May 11, 2021

Mr. Aaron Yeow, Designated Federal Officer – Email: yeow.aaron@epa.gov
U.S. Environmental Protection Agency
Science Advisory Board
Washington, DC

RE: Recommendation for Adrienne Hollis, PHD
TO: EPA's Clean Air Scientific Advisory Committee (CASAC)

This letter of recommendation is submitted in support of Dr. Adrienne Hollis's application for Clean Air Scientific Advisory Committee (CASAC) at the U.S. Environmental Protection Agency, Washington, DC. Dr. Hollis has the academic, research background, and ground-level knowledge to prioritize improving the quality of life of impacted communities. Dr. Adrienne L. Hollis is the Senior Climate Justice and Health Scientist in the Climate and Energy Program at the Union of Concerned Scientists' Washington, D.C. office

Dr. Hollis's work with the Union of Concerned Scientist (UCS) is outstanding as she addresses justice, equity, diversity, and inclusion of Black, Indigenous, Latinx and other community science practitioners. The West End Revitalization Association (WERA)'s working collaboration with Dr. Hollis has grown over the last several years. In April 2021, WERA's Co-Founder Omega Wilson was a panelist for a UCS webinar on "Engaging with Community Partners". In the era of challenges to science, impacted communities need a champion for the "community science voice". Dr. Hollis educational background at History Black College and Universities (HCBUs) adds credibility to the field of science when so many people of color maintain mistrust.

Our collaborative work continues expanding WERA's model for "Memorandums of Understanding and Agreement" when community groups seek partnerships with universities and other research institution. Dr. Hollis's legal background affords a clear understanding of how community leaders and their local grassroots organizations' research data, civil rights, and avenues for legal redress must be protected. Dr. Hollis's vision will be more proactive in addressing contamination of air, water, and soil that results in known human exposure, illness, and deaths among marginalized populations.

WERA shares Dr. Adrienne Hollis's passion for mitigating adverse impacts of air pollution from mega hog farms and confined animal feeding operations' (CAFOs) manure pits, human sewage treatment plants, oil refineries, and highway corridor diesel emissions. WERA's

concerns are no less passionate and personal about the denial of safe drinking water and sewer connection access for Black and Indigenous homeowners in of Mebane, N.C. (Alamance County and Orange County). Highway corridor displacement and diesel emissions are current concerns as well.

Dr. Hollis will provide cutting edge advice and recommendations to the CASAC and the EPA Administrator Michael Regan on the scientific and technical aspects of air quality criteria and National Ambient Air Quality Standards (NAAQS). She is an expert on many areas including air quality, related climate issues, ecology, and exposure assessment, and medicine assessment.

Dr. Adrienne Hollis will be a great asset and visionary for EPA and the CASAC. Her established networks will bring much needed perspective to a federal agency that continued to be challenged by numerous environmental justice, civil rights, and public health leaders as weak in responding public complaints for decades. Her written work speaks to numerous shortcomings in correcting legacy and crisis disparities in Black, Indigenous, Latinx and other oppressed communities. Dr. Adrienne Hollis will be a win-win for EPA, CASAC, and the Biden-Harris Administration. I give her my highest recommendation. If you have any additional questions, please let me know.

Sincere respect and appreciation for a scientist who cares,

Omega R. Wilson

Omega Wilson, Co-Founder, West End Revitalization Association, Non-profit 501-c-3 (1995)

- 1999 & Sept 2014: WERA filed complaints at U.S. Department of Justice (DOJ), under Title VI of the Civil Rights Act of 1964 and referenced the Environmental Justice Executive Order 12898 - 1994
- 2007-10: Community Perspective Member EPA's National Environmental Justice Advisory Council
- 2008: Community-Based Environment Justice Award by EPA's Office of Environmental Justice
- AARP Bulletin-April 2019, both Brenda and Omega are featured as "senior citizen – citizen scientists" for collaborative problem-solving that "addresses human being in their environment."

Mark J Nieuwenhuijsen PhD
Research Professor
Director Air pollution and Urban Environment group
Director Urban planning, Environment and Health Initiative
ISGlobal CREAL
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C. Doctor Aiguader, 88, 08003 Barcelona , SPAIN
Email: mark.nieuwenhuijsen@isglobal.org
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ISGlobal Barcelona Institute for Global Health

To
Mr. Aaron Yeow
USEPA
yeow.aaron@epa.gov

Date: 24/05/2021

Ref: **Christina H. Fuller, ScD, SM**

Dear Mr Yeow

I would like to state my strong and enthusiastic support for Dr. Christina Fuller's membership on USEPA's Clean Air Scientific Advisory Committee (CASAC). I am Director of the Air Pollution and Urban Environment Programme at the Barcelona Institute for Global Health (ISGlobal) and President of the International Society of Environmental Epidemiologists (ISEE). Dr. Fuller's specialized knowledge of both epidemiology and exposure science puts her in an excellent place to evaluate air pollution scientific data. Dr. Fuller is an excellent scientist and has an international reputation for her air pollution expertise. She contributed a book chapter to my 2020 edited book on Traffic-Related Air Pollution and Health and recently published her own edited volume on the state of the science of ultrafine particles and health. I highly urge you to appoint Dr. Fuller to this advisory committee.

Best wishes

Mark Nieuwenhuijsen

Yamide Dagnet
(b) (6)
yamide.dagnet@wri.org

June 1st 2021

Mr. Aaron Yeow
Designated Federal Officer (DFO), Clean Air Scientific Advisory Committee
U.S. Environmental Protection Agency Headquarters
William Jefferson Clinton Building
1200 Pennsylvania Avenue, N.W.
Mail Code: 1400R
Washington, DC 20460
Via Email: yeow.aaron@epa.gov

Re: Invitation for Public Comment on the List of Candidates For EPA's Clean Air Scientific Advisory Committee (CASAC)

Dear Mr. Yeow:

CASAC's seven-member Federal Advisory Committee (FAC) play an important role under the Clean Air Act in providing independent expert advice to EPA that includes reviewing EPA's air quality criteria and national ambient air quality standards developed under Clean Air Act (CAA) sections 108 and 109, as well as providing EPA with other related scientific and technical advice. On May 10, 2021, EPA's Science Advisory Board (SAB) issued a "Invitation for Public Comment on the List of Candidates for the CASAC."

I respectfully submit this comment in response to the list of candidates nominated to serve on the U.S. Environmental Protection Agency's (EPA) chartered Clean Air Scientific Advisory Committee (CASAC).

I am doing so as the Director, Climate Negotiations, at the World Resources Institute, and based on my eighteen years of experience on environmental, climate and sustainable development issues, in private, non-profit and public-sector organisations in the US, UK, France, Spain, Brazil and Canada. During that time, I have developed and implemented high-profile policies, managing large project and consultancy contracts, mobilized financial resources and capacity building, and negotiated complex climate-related agendas nationally and internationally.

According to the EPA's Peer Review Handbook, the Agency is expected to "rotate membership among qualified scientists to obtain fresh perspectives and reinforce the reality and perception of

Y.D

independence."[1] These fresh perspectives often arise with the introduction of a diverse and balanced set of candidates who understand the human element and interdisciplinary impacts of EPA's decisions. In such context, I would like to recommend that strong considerations are given to Dr. Crystal Upperman.

Dr. Upperman leads the integration of public health information and informed risk characterization into Aclima's air pollution and greenhouse gas measurement and analysis products. In her prior roles, she was a Senior Research Associate at the World Resources Institute on the Global Commission on Adaptation, at AECOM she was the Climate Adaptation and Resilience Lead for the Southeast US, Latin America, and the Caribbean, and she managed the CDC's Building Resilience Against Climate Effects (BRACE) program for Maryland Department of Health. She worked as an environmental regulator, very early in her career, for the New Jersey Department of Environmental Protection and the Georgia Environmental Protection Division's Ambient Air Quality Program. Crystal's research focus is on exposure science and spatial epidemiology and has included a national assessment of the impact of climate change, pollen exposure, and extreme heat on chronic respiratory diseases. Crystal is a Trustee of The Nature Conservancy and is an Advisory Board Member for the American Public Health Association's Center for Climate, Health, and Equity. Crystal earned a PhD in Marine, Estuarine, and Environmental Science from the University of Maryland as a U.S. EPA Science to Achieve Results Fellow and an NSF Louis Stokes Alliance for Minority Participation Fellow, a Master of Public Administration in Nonprofit Management from Kennesaw State University, and a Bachelor of Science in Environmental Science from Spelman College.

Dr. Upperman's background and experience reflects the rigor and acumen necessary to help the U.S. EPA make informed environmental actions to protect public health. With such a differentiator, Dr Upperman should be seriously considered to become a member of EPA's CASAC.

I am available for any queries

Sincerely,

Yamide Dagnet

[1] Environmental Protection Agency, Science and Technical Policy Council, Peer Review Handbook, 4th Ed. (Oct. 2015). https://www.epa.gov/sites/production/files/2020-08/documents/epa_peer_review_handbook_4th_edition.pdf

X.O