



## **Geoengineering: The Deadly New Global “Miasma”**

**J. Marvin Herndon<sup>1\*</sup> and Mark Whiteside<sup>2</sup>**

<sup>1</sup>Transdyne Corporation, 11044 Red Rock Drive, San Diego, CA 92131, USA.

<sup>2</sup>Florida Department of Health in Monroe County, 1100 Simonton Street, Key West, FL 33040, USA.

### **Authors' contributions**

*This work was a joint effort between the authors that is part of an ongoing collaboration aimed at providing scientific, medical, public health implications and evidence related to aerosolized coal fly ash including its use in the near-daily, near-global covert geo-engineering activity. Author JMH was primary responsible for geophysical and mineralogical considerations. Author MW was primarily responsible for medical and public health considerations. Both authors read and approved the final manuscript.*

### **Article Information**

DOI: 10.9734/JAMMR/2019/v29i1230151

#### Editor(s):

(1) Dr. Babatunde Olanrewaju Motayo, Department of Pathology, Federal Medical Center, Abeokuta, Ogun State, Nigeria and Department of Virology, College of Medicine, University of Ibadan, Ibadan, Nigeria.

#### Reviewers:

- (1) Antipas T. S. Massawe, University of Dar Es Salaam, Tanzania.
- (2) Mandadapu. S. V. K. V. Prasad, Jawaharlal Nehru Technological University, India.
- (3) Kaywood Elijah Leizou, Niger Delta University, Nigeria.
- (4) Alok Nahata R&D, Ying Zhi Agricultural and Industries Sdn Bhd, Malaysia.
- (5) Germana Arruda de Queiroz, UniFBV/Wyden, Brazil.

Complete Peer review History: <http://www.sdiarticle3.com/review-history/49603>

**Received 30 March 2019**

**Accepted 14 June 2019**

**Published 20 June 2019**

**Original Research Article**

### **ABSTRACT**

Near-total adherence to false scientific theories is the striking parallel between 19<sup>th</sup> century miasma theory associated with cholera, dispelled by Dr. John Snow, and 21<sup>st</sup> century “miasmas”, namely, the anthropogenic-carbon-dioxide-cause of global warming theory, and its presumed “cure” by geoengineering, undisclosed jet-spraying particulate pollution into the troposphere. An image published in the New York Times in 2017 began a series of discoveries that pointed to particulate pollution, not carbon dioxide, as the principal cause of global warming. Both industrial and deliberate jet-sprayed particulate pollution heat the atmosphere and thus reduces atmospheric convection-efficiency, which retards heat loss from earth’s surface and causes global warming, concomitantly wreaking havoc on human and environmental health. Today’s “bad air,” rather than spreading contagion, is causing a pandemic of non-communicable diseases (NCD’s) and decimating our natural environment. Covert tropospheric aerosol geoengineering, especially utilizing coal fly ash, is a primary catalyst for both of these modern disasters, and it must be

\*Corresponding author: E-mail: [mherndon@san.rr.com](mailto:mherndon@san.rr.com);

recognized and halted. Air pollution is the leading environmental cause of disease and death in the world. Combustion products of fossil fuels are major contributors to both global warming and air pollution. The causes of air pollution and associated runaway global warming are modifiable in a short time-frame by reducing industrial and geo-engineering particulate pollution. However, corrective actions hinge on a scientific paradigm-shift and international cooperation at all levels of authority. The modern “miasmas” of complacency encompassing the universal dangers of air pollution and the deadly code of silence on the subject of undisclosed geo-engineering must be dispelled if we are to have a “fighting chance” to confront these global public health emergencies. Despite Snow’s ground-breaking work, the stubborn belief in “miasma” as the cause of infectious disease persisted well beyond his death into the 20<sup>th</sup> Century; our time is much too short now to delay changing course.

*Keywords: Aerosols; coal fly ash; geoengineering; particulate pollution; pandemic; global warming; precautionary principle.*

## 1. INTRODUCTION

Dr. John Snow used basic “foot leather” scientific methods to show that cholera was spread by contaminated drinking water [1]. He challenged the strong prevailing misunderstanding that “miasma” or “bad air” was the cause of disease, and thus laid the foundation for modern epidemiological investigations [2]. Today, ironically, “bad air” in the form of air pollution is the world’s greatest plague. Particulate air pollution is directly related to runaway warming [3] and it is the leading environmental cause of non-communicable disease and death [4]. Unfortunately, there is a “miasma” of misunderstanding and complacency concerning this universal threat, and a second “miasma” of silence on the subject of undisclosed geoengineering which is making a bad situation unimaginably worse by deliberately emplacing particulate pollution particles into the troposphere, which mixes with the air we breathe [5]. These modern-day miasmas must be dispelled if we are to have a viable future.

## 2. CHALLENGING THE 1854 CHOLERA “MIASMA” CONSENSUS

One hundred sixty-five years ago, the obstetrician, Dr. John Snow, was able to have the handle removed from the Broad Street water pump, a life-saving step that helped stem the deadly 1854 London cholera epidemic, and changed the course of medical history. Snow deduced that contaminated water from sewage dumped into rivers and cesspools near town wells spread the disease. He worked around the clock during the cholera scourge to track down information from hospital and public records to determine whether the victims lived nearby and drank water from Soho’s Broad Street pump.

Snow’s mapping locations of the fatal cholera cases showed a clear association with proximity and use of this water source [1].

Snow’s assertion that fecal-polluted water, not an air-borne contagion, was the agent that spread cholera blatantly contradicted the prevailing miasma theory. The miasma theory held that most, if not all disease, was caused by inhaling “bad air” infected by the stench of rotting vegetable or animal material [2].

The medical establishment was highly critical of Snow’s theory that cholera was spread by polluted water. Public officials thought his hypothesis was nonsense. The Board of Health issued a report that stated, “we see no reason to adopt this [Snow’s] belief,” and there was a refusal to clean up the cesspools and sewers. The founding Editor of *The Lancet*, Thomas Wakley, was an outspoken critic of Snow. A scathing editorial in *The Lancet* in 1855 suggested that Snow had “fallen into a gully-hole and should be left there” [6]. *The Lancet* later published papers by Snow and his supporters, and many decades later apologized for failing to recognize his remarkable achievements in epidemiology [7].

Snow’s theory was finally proven 25 years after his death, when Robert Koch, one of the fathers of the Germ Theory of Disease, identified *Vibrio cholerae* as the cause of the disease, and additionally showed that it was transmitted by the fecal-oral route.

## 3. GLOBAL WARMING “MIASMA”

The origin of epidemiology in Snow’s work on cholera provides a dynamic model of etiological research combined with community intervention

to curb an epidemic and prevent further disease. But just as important today, is the “back story”, the medical establishment’s adverse reaction to Snow’s radical understanding. The relevancy here relates to a new, potentially more devastating public health threat and new “miasmas” attributed to its cause and cure.

In 1988 a new scourge against humanity was identified, and the drums beat loudly to warn the global population about the threat. Unlike biological pandemics before, this one was thermal in origin. Humanity, it was said, was causing global warming by excessive fossil-fuel combustion that was adding heat-trapping carbon dioxide to the atmosphere [8]. But what was unsaid was that a coterie of scientists and politicians had decided to take action against the new scourge without public consent. They had identified a new miasma, carbon dioxide [CO<sub>2</sub>],

as the cause, and launched an undisclosed cure, a second new miasma, the far more devastating cure of adding jet-sprayed pollution particles to the troposphere.

Few, if any, new ideas have been as thoroughly instilled in human consciousness as the idea that carbon dioxide, the product of human fossil-fuel combustion, is causing global warming which, if unabated, will wreak environmental havoc. Although it had begun much earlier, by about 2010 jet-sprayed particulate trails became a near-daily, near-global activity, especially in the skies above the British Commonwealth, the European Union, and North America (Fig. 1). The jet-sprayed particulate trails, shown in Fig. 1, rapidly spread, for a brief time appearing like cirrus clouds, before further spreading to become a white haze in the sky. Heavy aerial spraying can cause an artificial overcast.



**Fig. 1. Geoengineering particulate trails with photographers’ permission. Clockwise from upper left: London, England (Ian Baldwin); Paris, France (Josefina Fraile); Sanremo, Italy (Rosario, Marcianó); San Diego, California, USA (author JMH); Calgary, Alberta, Canada (Dan Pelletier); Geneva, Switzerland (Beatrice Wright)**

#### 4. CODE OF SILENCE

A strange *omertà* – the code of silence – pervaded officialdom, including the scientific community. Like the mainstream news media, atmospheric and climate scientists avoided considering the consequences of, or even mentioning, the very obvious atmospheric manipulation [8], and misleading claims were made that the aerial particulate-trails are just harmless ice-crystal contrails [9]. But the most disquieting pervasive *omertà* in our experience was and is perpetrated by the medical and public health community.

As credentialed professionals we have submitted for publication Commentaries warning of the global health risks of the tropospheric particulate aerial spraying to the *Bulletin of the World Health Organization*, *The Lancet*, and *Environmental Health Perspectives*, the latter being a publication of the U. S. National Institutes of Health [10]. In each case the Commentary was rejected without benefit of peer-review. One of us (JMH) submitted a manuscript to the *Proceedings of the National Academy of Sciences (USA)* [PNAS] entitled “New Evidence of Aerosolized Toxins in the Lower Atmosphere”. Instead of the manuscript being sent out for peer review, the PNAS Editorial Board flatly rejected the paper because it “lacked the broad appeal necessary for further consideration by the journal” [11].

There is a widespread, concerted effort, presumably by the intelligence community, to deceive the public and the scientific, medical and public health communities into believing the toxic particulate trails are harmless ice-crystal contrails [12]. Their operatives were responsible for coercing editors of public health journals to retract two peer-reviewed and published public health articles without ever allowing the author (JMH) to see and respond to their allegations [13,14]. Moreover his reputation has been smeared on disinformation websites and his Wikipedia page marginalized and perverted. Deliberate public deception of the adverse health risks of the aerial particulate spraying is clear evidence that those who order the spraying do so knowing that the public’s health will be jeopardized.

But fortunately, as U.S. President Abraham Lincoln allegedly said, “You cannot fool all of the people all of the time.”

#### 5. GEOENGINEERING “MIASMA”

Forensic scientific investigations revealed that the undisclosed aerial particulate composition is consistent with coal fly ash, the toxic waste product of industrial coal burning which forms in just the particle-size needed for spraying [15]. This is the second modern *miasma*, deliberately spraying pollution particles into the air to control the malady of global warming. The establishment now, as in Snow’s time, is dead wrong: Aerosol pollution causes global warming instead of curing it [3,16-18], and its consequences are deadly [19].

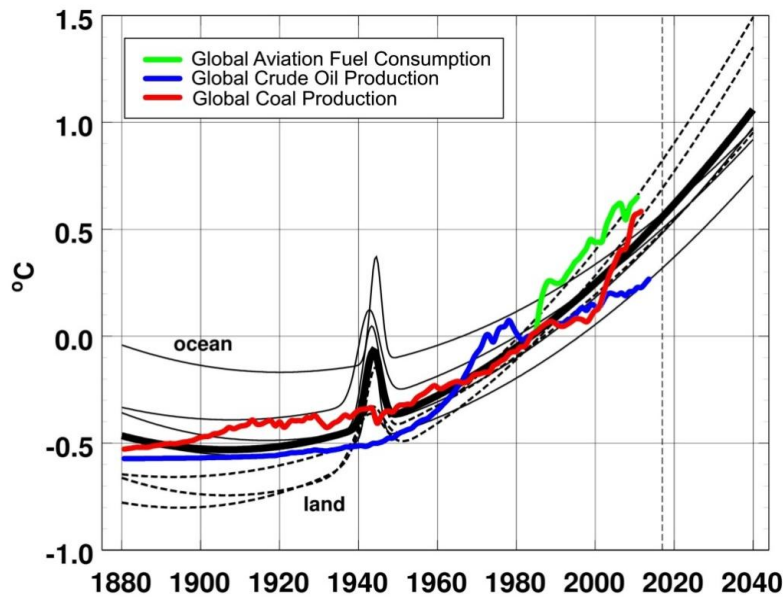
The observations that led to the disclosure of the modern *miasma* mistake began with an image on the front page of the January 19, 2017 *New York Times*, a global surface temperature presentation showing a bump, coincident with World War II (WW2). Inspired by that image, Bernard Gottschalk [20,21] applied sophisticated curve-fitting techniques and demonstrated the bump is a robust feature evident in eight independent NOAA databases. The bump, Gottschalk concluded, “is a consequence of human activity during WW2” [20].

Inspired by Gottschalk’s work [20,21], Herndon [3,16-18] realized that two WW2 consequences were potentially capable of altering the sun-earth radiation balance to cause global warming: Particulate pollution and CO<sub>2</sub>. Pollution proxies track well with Gottschalk’s curves (Fig. 2).

Atmospheric carbon dioxide (CO<sub>2</sub>) can be ruled out as the cause of the thermal peak coincident with WW2: Antarctic Law Dome Ice core data during the period 1936-1952 show no significant increase in CO<sub>2</sub> during the war years, 1939-1945 [22]. Moreover, rapid cessation of WW2 global warming is understandable as tropospheric pollution-particulates typically fall to ground in days to weeks [23], while CO<sub>2</sub> remains in the atmosphere for decades [8].

Recently, we published evidence from the 1980 Mt. St. Helens volcanic eruption that supports the concept deduced from the WW2 data, namely that particulate pollution inhibits heat loss from the surface of Earth by decreasing the efficiency of atmospheric convection [5].

Like the 19<sup>th</sup> century *miasma*, the modern climate science community has the wrong culprit. Particulate pollution, not CO<sub>2</sub>, is the principle cause of global warming [3,16-18]. Particulate pollution heats the atmosphere [17,18], not cools



**Fig. 2. Copy of Gottschalk’s fitted curves for eight NOAA data sets showing relative temperature profiles over time [20] to which are added proxies for particulate pollution. Dashed line: land; light line: ocean; bold line: Weighted average. From [3]. The peak during WW2 is inexplicable by the carbon dioxide greenhouse effect, but can be accounted for by heat trapped by aerosolized particulates, which rapidly settle to ground as described in the text**

it as usually assumed [8]. Global warming occurs because the particulate-heated atmosphere reduces convective heat loss from Earth’s surface [17,18].

Heat is lost from Earth’s surface, not only by infrared radiation, but it is transported away by atmospheric convection. Convection efficiency depends upon the temperature gradient. Reducing the temperature gradient, by heating the atmosphere, reduces the surface heat-removal efficiency by atmospheric convection [18].

Today’s miasmatisms have mounted a massive, global program of undisclosed “geoengineering”, the near-daily, near-global jet-spraying of particulate-pollution into the troposphere (Fig. 1). But instead of cooling, the deliberate aerial pollution causes additional global warming, polar melting, climate chaos, and deadly human and environmental problems. Officialdom seems not to notice what is happening before their very eyes.

## 6. CONSEQUENCES AND RESPONSIBILITIES

As the Director-General of the World Health Organization recently noted [19], the simple act

of breathing is killing seven million people a year and injuring billions more. “No one, rich or poor, can escape air pollution”, he acknowledges, “Despite this epidemic of needless, preventable deaths and disability, a smog of complacency pervades the planet.” However, the situation is even more calamitous than the Director-General realizes or admits.

Aerosolized coal fly ash, unfiltered from industrial smokestacks as well as deliberately jet-emplaced in the troposphere, is a significant risk factor for COPD and respiratory disease [24], lung cancer [25], and neurodegenerative disease [26] and is potentially a major agent in the globally-catastrophic demise of insects [27], birds [28], and forests [29]. It is an activity that poisons the planet with mercury [30], damages the ozone layer that shields us from harmful solar ultraviolet radiation [31-34], exacerbates wildfires [35], and does yet untold damage to the web of life on Earth.

In the instance of a naturally occurring biological public health risk, such as avian flu, it would be unimaginable for virtually all medical and public health journals to ignore the contagion, to turn a blind eye, as they do regarding the

geoengineering-emplaced particulate pollution of the air we breathe.

A fundamental obligation of public health is to identify environmental health risks, to inform the public, and take steps to protect the public against these hazards [36]. The Precautionary Principle is the key to protecting environmental and human health [37]. The Precautionary Principle is characterized this way: When an activity threatens harm to human health or the environment, precautionary actions should be taken even if some cause and effect relationships are not fully established scientifically [38]. A vital role for Public Health in the 21<sup>st</sup> Century is to empower the public to address their needs and threats to their health. Epidemiological and scientific data should be used to educate the population and guide corrective actions [39].

Removing the handle from the Broad Street water pump marked the beginning of the end of 19<sup>th</sup> century miasma. Removing the handle from the pump today means halting the aerial spraying and removing the code of silence from the medical, public health, and scientific communities. Doing so will begin to bring an end to modern miasma-madness, dispel the “smog of complacency”, and lead to vastly improved planetary public health.

## 7. CONCLUSION

The origin of epidemiology arising from John Snow’s work on cholera provides a dynamic model of research on causation combined with public health intervention to help curb an epidemic and prevent further disease. It was necessary for Snow to employ basic scientific principles to develop his hypothesis that cholera was spread by contaminated drinking water and not by airborne contagion, or “miasma,” which was the prevailing view. Today it is more important than ever to correct such scientific mistakes. New evidence suggests that particulate pollution, not atmospheric carbon dioxide concentration, is the principal cause of global warming.

It is well-known that air pollution is the leading environmental cause of disease and death in the world. Combustion products of fossil fuels are major contributors to both global warming and air pollution. Today’s “bad air,” rather than spreading contagion, is causing a pandemic of non-communicable diseases (NCD’s) and decimating

our natural environment. Covert, “hidden in plain sight” tropospheric aerosol geoengineering operations, especially those utilizing coal fly ash, are a primary catalyst for both of these modern disasters. These operations must be recognized and halted.

The causes of air pollution and associated runaway global warming are modifiable in a short time-frame by reducing industrial and geoengineering particulate pollution. But these corrective actions hinge on a scientific paradigm-shift and international cooperation at all levels of authority. The modern “miasmas” of complacency encompassing the universal dangers of air pollution and the deadly code of silence on the subject of undisclosed geoengineering must be dispelled if we are to have a “fighting chance” to confront these global public health emergencies. Despite Snow’s ground-breaking work, the stubborn belief in “miasma” as the cause of infectious diseases persisted well beyond his death into the 20<sup>th</sup> Century; our time is much too short now to delay changing course.

## CONSENT

It is not applicable.

## ETHICAL APPROVAL

The authors hold that technical, scientific, medical, and public health representations made in the scientific literature in general, including this particular journal, should be and are truthful and accurate to the greatest extent possible, and should serve to the highest degree possible to protect the health and well-being of humanity and Earth’s natural environment.

## COMPETING INTERESTS

Authors have declared that no competing interests exist, neither institutional nor commercial. The research was funded by personal efforts of the authors.

## REFERENCES

1. Paneth N, Fine P. The singular science of John Snow. *The Lancet*. 2013;381(9874): 1267-8.
2. Lai A. London cholera and the blind-spot of an epidemiology theory. *Significance*. 2011;8(2):82-5.
3. Herndon JM. Air pollution, not greenhouse gases: The principal cause of global

- warming. *J Geog Environ Earth Sci Intern*. 2018;17(2):1-8.
4. Ambient air pollution – A global assessment of exposure and burden of disease. Geneva: World Health Organization (WHO); 2016.
  5. Herndon JM, Whiteside M. Further evidence that particulate pollution is the principal cause of global warming: Humanitarian considerations. *Journal of Geography, Environment and Earth Science International*. 2019;21(1):1-11.
  6. Snow SJ. John snow: The making of a hero? *The lancet*. 2008;372(9632):22-3.
  7. Hempel S. John Snow. *The Lancet*. 2013; 381(9874):1269-70.
  8. Stocker T, Qin D, Plattner G, Tignor M, Allen S, Boschung J, et al. IPCC, 2013: Climate Change 2013: The Physical Science Basis. Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change, 1535 pp. Cambridge Univ. Press, Cambridge, UK, and New York; 2013.
  9. Shearer C, West M, Caldeira K, Davis SJ. Quantifying expert consensus against the existence of a secret large-scale atmospheric spraying program. *Environ Res Lett*. 2016;11(8):084011.
  10. Available:<http://www.nuclearplanet.com/whorej.pdf> [Assessed June 10, 2019]
  11. Herndon JM. An open letter to members of AGU, EGU, and IPCC alleging promotion of fake science at the expense of human and environmental health and comments on AGU draft geoengineering position statement. *New Concepts in Global Tectonics Journal*. 2017;5(3):413-6. Available:<http://www.nuclearplanet.com/ncgtj.pdf> Accessed June 10, 2019.
  12. Available:[http://www.nuclearplanet.com/Public\\_Deception\\_by\\_Scientists.html](http://www.nuclearplanet.com/Public_Deception_by_Scientists.html) Accessed May 28,2019.
  13. Available:[http://www.nuclearplanet.com/public\\_rejection.pdf](http://www.nuclearplanet.com/public_rejection.pdf) [Accessed May 28, 2019]
  14. Available:<http://www.nuclearplanet.com/explainretractions.pdf> [Accessed May 28, 2019]
  15. Herndon JM, Whiteside M. Further evidence of coal fly ash utilization in tropospheric geoengineering: Implications on human and environmental health. *J Geog Environ Earth Sci Intern*. 2017;9(1):1-8.
  16. Herndon JM. Science misrepresentation and the climate-science cartel. *J Geog Environ Earth Sci Intern*. 2018;18(2):1-13.
  17. Herndon JM. Fundamental climate science error: Concomitant harm to humanity and the environment *J Geog Environ Earth Sci Intern*. 2018;18(3):1-12.
  18. Herndon JM. Role of atmospheric convection in global warming. *J Geog Environ Earth Sci Intern*. 2019;19(4):1-8.
  19. Carrington D, Taylor M. Air pollution is the 'new tobacco', warns WHO head. *The Gaurdian*; 2018.
  20. Gottschalk B. Global surface temperature trends and the effect of World War II: A parametric analysis (long version). arXiv:170306511.
  21. Gottschalk B. Global surface temperature trends and the effect of World War II. arXiv:170309281.
  22. Bastos A, Ciais P, Barichivich J, Bopp L, Brovkin V, Gasser T, et al. Re-evaluating the 1940s CO2 plateau. *Biogeosciences*. 2016;13:4877-97.
  23. Müller J. Atmospheric residence time of carbonaceous particles and particulate PAH-compounds. *Science of the Total Environment*. 1984;36:339-46.
  24. Whiteside M, Herndon JM. Aerosolized coal fly ash: Risk factor for COPD and respiratory disease. *Journal of Advances in Medicine and Medical Research*. 2018; 26(7):1-13.
  25. Whiteside M, Herndon JM. Coal fly ash aerosol: Risk factor for lung cancer. *Journal of Advances in Medicine and Medical Research*. 2018;25(4):1-10.
  26. Whiteside M, Herndon JM. Aerosolized coal fly ash: Risk factor for neurodegenerative disease. *Journal of Advances in Medicine and Medical Research*. 2018; 25(10):1-11.
  27. Whiteside M, Herndon JM. Previously unacknowledged potential factors in catastrophic bee and insect die-off arising from coal fly ash geoengineering *Asian J Biol*. 2018;6(4):1-13.
  28. Whiteside M, Herndon JM. Aerosolized coal fly ash: A previously unrecognized primary factor in the catastrophic global demise of bird populations and species. *Asian J Biol*. 2018;6(4):1-13.
  29. Herndon JM, Williams DD, Whiteside M. Previously unrecognized primary factors in the demise of endangered torrey pines: A microcosm of global forest die-offs. *J Geog Environ Earth Sci Intern*. 2018;16(4):1-14.

30. Herndon JM, Whiteside M. Contamination of the biosphere with mercury: Another potential consequence of on-going climate manipulation using aerosolized coal fly ash. *J Geog Environ Earth Sci Intn.* 2017; 13(1):1-11.
31. Cabrol NA, Feister U, Häder D-P, Piazena H, Grin EA, Klein A. Record solar UV irradiance in the tropical Andes. *Frontiers in Environmental Science.* 2014;2(19).
32. Córdoba C, Muñoz J, Cachorro V, de Carcer IA, Cussó F, Jaque F. The detection of solar ultraviolet-C radiation using KCl:Eu<sup>2+</sup> thermoluminescence dosimeters. *Journal of Physics D: Applied Physics.* 1997;30(21):3024.
33. D'Antoni H, Rothschild L, Schultz C, Burgess S, Skiles J. Extreme environments in the forests of Ushuaia, Argentina. *Geophysical Research Letters.* 2007; 34(22).
34. Herndon JM, Hoisington RD, Whiteside M. Deadly ultraviolet UV-C and UV-B penetration to Earth's surface: Human and environmental health implications. *J Geog Environ Earth Sci Intn.* 2018;14(2):1-11.
35. Herndon JM, Whiteside M. California wildfires: Role of undisclosed atmospheric manipulation and geoengineering. *J Geog Environ Earth Sci Intn.* 2018;17(3):1-18.
36. Harrell JA, Baker EL. The essential services of public health. *Leadership Public Health.* 1994;3(3):27-30.
37. Kriebel D, Tickner J, Epstein P, Lemons J, Levins R, Loechler EL, et al. The precautionary principle in environmental science. *Environ Health Perspec.* 2001; 109(9):871-6.
38. Jackson W, Steingraber S, Tickman J. Protecting public health and the environment: Implementing the precautionary principle. *Journal of Public Health.* 1999; 22(2).
39. Morrow A. Empowering communities to remove the pump handle: An emerging role in epidemiology. *Annals of Epidemiology.* 2000;10(7):451.

© 2019 Herndon and Whiteside; This is an Open Access article distributed under the terms of the Creative Commons Attribution License (<http://creativecommons.org/licenses/by/4.0>), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

*Peer-review history:*  
The peer review history for this paper can be accessed here:  
<http://www.sdiarticle3.com/review-history/49603>