



THE ECHO

ENVIRONMENTAL VOICES

NEWSLETTER

June 2016

Contents:

❖ Mission Statement.....	2
❖ Events.....	2
❖ NOAA Public Comments.....	2
❖ Drones Used in Cloud-Seeding Programs.....	3
❖ Exposure to Pesticides Linked to Long-Term Brain Damage.....	4
❖ Iron and Your Health.....	5
❖ Environmental Voices Contact Information.....	6

MISSION STATEMENT

Our mission is to help preserve our future by providing education and research about

toxic chemicals and how they affect our health and the environment.

EVENTS

- **June 9, 2016 (6:00 p.m.)**

Sacramento Skywatch Public Meeting

There will be a public meeting held at the Brookfield's Restaurant located at 4343 Madison Avenue at Hwy 80 in Sacramento, CA. The dinner meeting will begin at 6:00 p.m. This will be a strategic planning meeting and we need your recommendations. Please bring a friend and RSVP to Deborah Whitman at deborahjwhitman@aol.com

- **June 25, 2016**
Postponed -
Environmental Voices Film
Night - "UNconventional
Grey"

This film has been postponed. We will notify you when it has been rescheduled and we apologize for any inconvenience.

- **Wild & Scenic Film Festival (Multiple Dates Listed)**

https://www.wildandscenicfilmfestival.org/dont-miss-these-upcoming-events/?mc_cid=077ac114ae&mc_eid=9b99ee0f0a

ARTICLES & INFORMATION



- **NOAA Public Comments**

NOAA Public Comment Accepted Through July 1, 2016:

NOAA: We invite comments on the NOAA Ocean Noise Strategy Roadmap. The mailbox address for providing email comments is: Comment.ONS@noaa.gov

Please include "ONS Roadmap Comments" in the subject line and any supporting data or literature citations with your comments, as appropriate. Comments sent via email, including all attachments, must not exceed a 25 megabyte file size. NOAA is not responsible for email comments sent to addresses other than the one provided here. Public comment will be accepted through July 1, 2016.

The ocean is loud: Ship propellers, sonar, [oil](#) and gas drilling and other industrial work make sounds, even if, like the proverbial tree falling in the forest, no one can hear it.

But marine animals can, and [all that noise](#) has been shown to interfere with their behavior, since many of them, from whales to invertebrates, use sound for all kinds of activities, including to communicate, to find food or each other, to avoid predators and to migrate.

Read More:

<http://www.nytimes.com/2016/06/03/science/noise-pollution-oceans-noaa-roadmap.html? r=0>

- **Drones Used in Cloud-Seeding Programs**

Las Vegas Review Journal News - Drone cloud-seeding focus of Nevada project

RENO — There's been no business like the drone business in Nevada lately.

The most recent historic achievement came April 29, from a partnership between the Desert Research Institute and the Reno-based manufacturing company Drone America — a fixed-wing drone successfully deployed flares containing silver iodide crystals as part of a snow-making experiment.

The cloud-seeding payload was activated on a drone flying over Hawthorne. No, snow did not fall. It was a clear day and the Savant unmanned aerial vehicle flew to an altitude of only about 400 feet for 18 minutes.

But the implications are significant, Drone America President and CEO Mike Richards said.

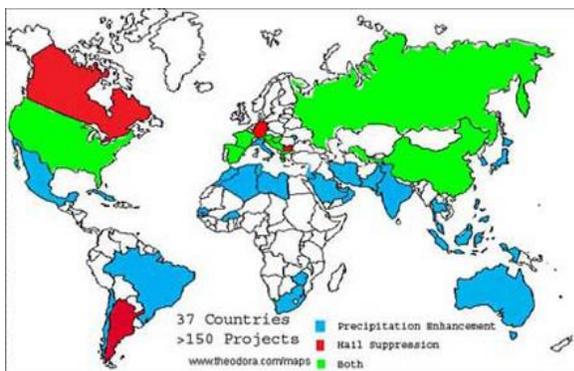
If the Nevada System of Higher Education's research arm can get another grant to continue the project next year, there may soon be a day when fleets of drones carrying silver iodide particles fly into the wettest, most unstable parts of winter storms, helping squeeze out additional, critical moisture in Nevada and other arid regions around the globe. This year's \$400,000 grant runs out June 30.

"You can think of it as an atmospheric bloodhound seeking out supercooled water," Richards said.

Read More:

<http://m.reviewjournal.com/news/water-environment/drone-cloud-seeding-focus-nevada-project>

UCAR - U.S. & Worldwide Ongoing Weather Modification Programs:



Aircraft-mounted flares release cloud-seeding particles in flight

Flares mounted in a rack off the wing of a small research aircraft burn to release their water-attracting, or hygroscopic, particles during a cloud-seeding experiment. Hygroscopic particles such as potassium/sodium chloride create larger raindrops that fall more quickly, colliding with smaller droplets on the way and stimulating rainfall. Click on the image to view the video.

Credit: Roelof Bruintjes, NCAR

Read More:

<http://www2.ucar.edu/news/weather-modification-multimedia-gallery>

- **Exposure to Pesticides Linked to Long-Term Brain Damage**

Study draws link between low-level exposure to organophosphate pesticides - the most widely used insecticides in the world - and long-term brain damage.

A long-running campaign to highlight the health impacts of a dangerous chemical, used by farmers around the world, has been vindicated by the conclusions of a major new study.

The findings, confirming a link between use of organophosphate pesticides (OPs) and long-term brain damage, could have global significance, particularly in many developing countries where adequate protective measures are lacking.

Campaigners in the UK have been fighting for more than two decades to raise awareness of the issue. Several hundred farmers in the country are believed to have suffered debilitating health problems from exposure to OPs. A large number of them were sheep farmers, following government orders in the 1980s and 90s to treat their animals with the chemical to protect against the spread of a disease called sheep scab.

Other groups known to have been affected include military veterans from the Gulf War who were exposed to

pesticides used to protect them from pests and mosquitoes, and airline pilots and cabin crew, who can be exposed to organophosphates in engine oil.

Derived from World War II nerve gas agents, organophosphate pesticides are the most widely used insecticides in the world. While high-level exposure to the chemicals has long been known to be dangerous, low-levels of exposure of the kind experienced by farmers spraying the chemical or treating animals, was not initially thought to be a hazardous, as governments across the world have promoted a new chemical-dependent era of farming.

However, with growing reports of health problems from the farmers around the UK since the mid-1980s, including more than 600 reports of ill health to an official surveillance scheme, the government has been under pressure to acknowledge that low-level exposure may have caused widespread illness.

Read More:

<https://www.chinadialogue.net/article/how/single/en/5474-Exposure-to-pesticides-linked-to-long-term-brain-damage>

• Iron and Your Health

In this 2009 review of the literature the author notes that, "To successfully sustain an infection, nearly all bacteria, fungi and protozoa require a continuous supply of host iron." "Mechanisms of microbial iron acquisition are determinants for the kinds

of cells, tissues and hosts in which pathogens can flourish." And with respect to human and other "hosts," "As a corollary, hosts possess an array of iron withholding devices whereby they can suppress or abort microbial invasions." "Awareness of environmental and behavioral methods that can prevent iron loading plus development of pharmaceutical agents that can block microbial access to iron may help to reduce our dependence on antibiotics."

Read More:

- [IRON: Your Heart, Cardiovascular System, Oxidative Stress and Mortality](#)
- [IRON: Cancer, Oxidative Stress and Mortality](#)
- [IRON: Bacterial, Fungal, Viral, Protozoan Infections and infectious Processes](#)

<http://www.healthiron.com/iron-diabetes1>



Environmental Voices

Contact info

Website: www.environmentalvoices.org

Phone : (916) 595-7197

Email: EVoices1@aol.com

Facebook:

Environmental Voices

Twitter:

Environmental Voices @EVoices

Published by: Environmental Voices

Environmental Voices' mission is to provide research and education. The information in the EV newsletter is not necessarily the opinions of EV or its staff.

Thank you to all of you for supporting the efforts of Environmental Voices.

Your donations are critical to produce environmental documentaries and educational materials and we thank you for your contributions to Environmental Voices.

To make a donation, please visit our website or mail your tax deductible donation to:

Environmental Voices
P. O. Box 1953
Rocklin, CA 95677

Please consider the environment before printing this newsletter

A single tree absorbs up to 48 pounds of carbon dioxide every year, and can sequester one ton of carbon dioxide by the time it reaches 40 years old!