

Episode 56WE July 30 2024 Electric Olympic Flame. Olympic Swimmers Think About Math in the Pool.

In Episode 56WE 1 United States 2 California 3 Massachusetts and the Bronx New York 4 Oregon 5 Texas 6 Canada 7 Australia 8 New Zealand and Canada 9 France The Olympics 10 China 11 India 12 Malaysia 13 PM2.5 and Human Health. Main Content.

1 United States West. Thousands battle Western wildfires as smoke puts millions under air quality alerts WOODTV.com smoke and haze and contributing to poor air quality in a large

2A California. Man accused of igniting California Park Fire charged. **RAWSEP View**. Human error and lightning strikes can cause wildfires. Intentional human intervention with the alleged motive of causing harm can also cause wildfires. What can be done to preempt destructive human actions of allegedly starting wood burning fires while intending to harm other people? **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization**. CNN July 30 2024. A man has been charged with arson on suspicion of starting the Park Fire last week a felony complaint filed Monday shows. A court document similar to what authorities previously said alleges in part that a witness saw him pushing a burning car down a 60-foot embankment. The man is claiming he did not push the car. The man did not enter a plea during a court appearance Monday but he was denied bail and his arraignment was continued to Thursday. More charges could be added.

2B California Mariposa County Health & Human Services Announces Applications Now Being Accepted Sierra Sun Times wood-burning stoves fireplace inserts or fireplaces used as a primary source of heat with a cleaner burning and more efficient heating device. **RAWSEP View** wood burning appliances should be replaced by the cleanest alternative for home heating and cooling Heat Pumps that work down to 40 degrees below zero and which in 2024 are offered with rebates up to \$8,000 based on a sliding income scale

3 Massachusetts and the Bronx New York. Study tracks exposure to air pollution through the day MIT News Massachusetts Institute of Technology For people moving through the Bronx at different times exposure to particulate matter 2.5 microns or bigger rises by about 2.4 percent when daily Big mobility data reveals hyperlocal air pollution exposure disparities in the Bronx New York Nature The population-weighted fine particulate matter PM2.5 exposure per emissions source among communities has been estimated showing that nearly

4A Oregon. Public fire restrictions dropped in Central Oregon starting Saturday Central Oregon Daily Campfires charcoal fires wood pellet burning devices and portable propane campfire devices are still prohibited on BLM-administered lands along

4B Oregon. Air quality alert for Klamath and Lake counties oregonlive.com Avoid using wood burning stoves and other sources of indoor smoke if possible. Guidance for air quality alerts: Insights from the weather

4C Oregon Bend. Fundraiser for Bend family raises \$50,000 after home pets lost in fire Central Oregon Daily Investigators say it appears the fire was an accident started from improperly discarded ashes from the wood burning stove that were placed in a

4D Oregon Medford. Handling fire risk into fire season Video kdrv.com Avoid using wood burning stoves and other sources of indoor smoke if possible. July 26 2024

4E Oregon Medford. Shelly Fire now 92% contained 11 zones downgraded FireWatch kdrv.com The Shelly Fire is 15520 acres and 89% contained according to CAL FIRE Avoid using wood burning stoves and other sources

5 Texas Texarkana. Wood pellets production boomed to feed EU demand. It comes at a cost for Black people in the South Texarkana Gazette burn wood pellets for energy. In a 2018 letter hundreds of scientists warned the EU that the additional carbon load from burning wood pellets

6 Canada Alberta Wood Buffalo. CNN July 30 2024. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization. Progress made against wildfires in Fort McMurray Wood Buffalo area Fort McMurray Today The Regional Municipality of Wood Buffalo RMWB ended their evacuation warning for Janvier on the same day.

7 Australia. MIL-OSI Australia. More money to remove wood heaters improves air quality and help Canberrans ForeignAffairs.co.nz Research has shown us that wood heater smoke can have a massive impact of the health of Canberrans over the long term. If they are not paying the

8 New Zealand and Canada join forces. Geraldine ranger joins Kiwis battling Canadian wildfires Stuff The Post New Zealand sent a team of seven incident management personnel on July 21 2024 Fire and Emergency New Zealand national commander said. More New Zealand firefighters head to battle Canadian wildfires RNZ News They will head to Alberta where 134 fires are burning in the province More kiwi firefighters to deploy to help battle Canadian wildfires The Portal Fire and Emergency New Zealand burning across the province. This Bravo contingent consists of 21

9A France The Olympics. New York Times July 29 2024. In a sport where gold and silver can be separated by a fraction of a second many of the world top swimmers now scour data for even the smallest edge. RAWSEP View Like monitors on the backs of Olympic swimmers in training to enhance their swim times PurpleAir PM2.5 monitors can tell near neighbors of indoor residential wood burners when the near neighbors are at a disadvantage because of harm to their health from the wood burning emissions entering the near neighbors yards and sickening the near neighbors. The near neighbors can sense the harm to their health through the near neighbors eyes ears and touch sensations but this human sensory evidence of harm can be more easily discounted than PM2.5 level data downloaded from the PurpleAir online map for an individual resident owned PM2.5 sensor. Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization. A female swimmer of the United States often wears a device in training that measures her movement through the water. July 29 2024 A statistics graduate student and the second fastest swimmer in the world this year in two Olympic swimming events has always been good with numbers. The female swimmer gets into the pool while wearing a belt that holds an accelerometer the same device found in smartphones and fitness watches. As she swims the sensor measures her movement in three spatial directions 512 times per second. That helped her to figure out areas of her stroke where she can be more efficient. On Saturday she won a silver medal in the 4 by 100 freestyle relay. Elite swimmers use tricks to reduce the resistance known as drag like wearing swimsuits made from the same material

as Formula 1 racing cars. Though the sport has long relied on a swimmer feel in the water or a coach eye from the pool deck the Olympic swimmer and several of her U.S. Olympic teammates are measuring and analyzing the forces they create as they swim to optimize the way they move through the water. Details as seemingly small as the Olympic swimmer head position in her underwater breaststroke pullout or how her left hand enters the water on her backstroke have been focal points as she has worked to trim the hundredths of a second that make the difference between medals in the sport. The data they captured during their testing showed that swimming efficiency plunged when she reacted to a swimmer racing in the lane next to her. She felt as if she were going faster but she was actually out of sync like a car whose timing belt is off. Her takeaway for the Olympic trials. Swim her own race. In the final of the 800 freestyle she sensed that a swimmer who ended up finishing third was creeping up on her. But she reminded herself to stay focused on her stroke form. Given her understanding of statistics she is careful not to say that any one variable has been the reason for her rise in her sport. Later this week she will compete in the 200 breaststroke and 200 individual medley. Her preparation for Paris has required rigorous attention to detail in her pool and dry land training sleep nutrition and race strategy. As she wrote in a statistics research paper Force applied in any direction other than forward is not helping an athlete achieve their dream of Olympic gold. Other athletes who use sensors. An Australian sprinter who is a three time Olympian has partnered with a Sydney based sports technology lab that created a device to measure the force generated by swimmer hands as they stroke through the water. It gives us a mental edge knowing that we have access to this information that you cannot see with the naked eye said a two time Olympian who recalls researchers using plastic wrap to affix a sensor to her back when she was an undergraduate at Virginia.

9B France The Olympics. The Olympic Flame is electric so it is not a Flame at all. Two torches may have lit it to open the Paris Games but that is not a fire in the electrical cauldron. A golden balloon from which the Olympic cauldron is suspended rises into the night sky over Paris. This flame is actually a cloud of mist and beams of electric light according to Paris 2024 organizers. **RAWSEP View** it is safer to use an electric flame and also this use of an electric flame serves as an example of how we can live and thrive without burning traditional fuels. **Excerpts edited by RAWSEP for brevity and clarity and relationship to Residents Against Wood Smoke Emission Particulates a 501c3 nonprofit organization.** July 29 2024.

The Olympic flame is not a flame. It is electric. It looks like fire. Paris acknowledges the tradition of the Games while showing that Paris is keeping up with the times. Like a Disk Jockey DJ Paris plays the hits but still surprises and delights the listeners. That is how you get an Olympic flame that is not a flame at all. A flame that is actually a cloud of mist and beams of electric light according to Paris 2024 organizers. That electric flame rests in a cauldron with 40 LED electric spotlights and 200 misting nozzles and is tethered to what looks like a gigantic hot air balloon that will rise into the air every night of the Games. The electric flame during the day is in the Tuileries Garden in central Paris. The electric flame flickers like a fire though as you walk alongside it you feel a spray of cool mist on your legs. 10 000 visitors a day can request free access to view the electric flame and its orb although preregistration is required online. At sundown each day the electric flame ascends 200 feet into the sky. The electric flame appeared in the sky to be photographed through the middle of the Arc de Triomphe. It is a tribute to the Montgolfier brothers Joseph Michel and Jacques Étienne who in 1783 invented the first hot air balloon that carried people. The technology was provided by EDF a France government owned electric utility company. On Monday July 29 2024 the Paris mayor said that she hoped the cauldron would become a permanent legacy of the

Olympic Games along with the Olympic rings on the Eiffel Tower and the statues of women that emerged from the Seine during the Paris Olympics opening ceremony. What happened to the actual fire that had been lit and transported from Greece and ferried around France for weeks? The press office for the Paris Games wrote in an email that the electric flame should be considered the true Olympic flame. For the Olympic movement only the electric symbol of a flame that does not go out before the end of the Games matters. We will still keep a lit lantern in the immediate vicinity of the electric cauldron for the public to admire. Sure enough in one corner of the garden is a little glass box set atop a white stand like a museum display. Lit in Olympia from the rays of the sun stated a sign affixed to it. Inside was a tiny real flame.

10 China. EXPOSURE TO WILDFIRE SMOKE GREATLY RAISES RISK OF DEMENTIA DIAGNOSIS The risk of exposure to fine particulate matter PM2.5 air pollution is much more pronounced when the source is wildfire smoke than when it comes

11 India. Ludhiana Ranked Among Top 100 Most Polluted Cities in India Times of India PM2.5 guideline of 15 microns. The PM2.5 value in Ludhiana also exceeded the daily limit under the National Ambient Air Quality Standards NAAQS

12 Malaysia. Sarawak Records 68 Open Burning Cases In Six Days New Sarawak Tribune Most of the cases are intentional not only for agricultural purposes but also for burning wood wastepaper or trash. The fires often spread Open burning in Sarawak a cause for concern Fire Chief bernama burning wood wastepaper or trash which got out of control when the fires spread. Looking at the trend it shows an increase in open burning thesun.my

13A PM2.5 and Chronic Obstructive Pulmonary Disease COPD. Certain air pollution gases elevate COPD risk for adults: US study COPD News Today Gasoline wood burning oil and gas extraction/processing and industrial emissions comprise outdoor VOC sources. While previous research has

13B PM2.5 and Dementia. Wildfire Smoke Exposure Increases Risk of Dementia Diagnosis MedCentral Prior research has shown that long-term exposure to fine particulate matter PM2.5 in air pollution is associated with the risk of dementia. PM2.5 Wildfire smoke hard on brain health increases dementia risk Yahoo The increased risk was much smaller from other particulate matter pollution. Previous research has found that exposure to PM2.5 is associated Exploring Wildfire Smoke Exposure and Risk of Dementia in an Older Patient Population NeurologyLive Previous studies have shown an association between long-term exposure to ambient air pollution including fine particulate matter less than 2.5µm in Dementia Incidence Tied to Long-Term Exposure to Wildfire Smoke MedPage Today An increase of 1 micrometer per cubic meter of fine particulate matter 2.5 micrometers PM2.5 or less in diameter from wildfires in the 3-year average exposure was Wildfire smoke hard on brain health increases dementia risk Deseret News The increased risk was much smaller from other particulate matter pollution. Previous research has found that exposure to PM2.5 is

13C PM2.5 and skin health. FDA Approves New Blood Test To Screen For Colon Cancer Newsradio WOOD 1300 and 106.9 FM iHeart Wildfire Smoke Heat and Skin Health: Insights from Experts. July 18 2024