



EAA Chapter 648

Longmont, Colorado 80503

Our next meeting, June 8th will be cancelled again



Thanks to all of you for reading our newsletter and I will keep on working to increase our readership and don't forget to patronize our advertisers if an aviation purchase is in your future.

Remember, "Nothing happens until somebody sells something"

President's Message

Greetings:

Jack Pelton (EAA chief cook and bottle washer, pal to all animals large and small, and all around swell guy) said it best in his last email blast, "We Don't Gamble, We Need A Sure Thing".

Given the uncertainty regarding the Corona virus, our next EAA Chapter meeting is cancelled. We just can't practice the recommended social distancing at our normal chapter venue.

We can, however, still go flying. We can also walk our dog at the airport. Bill Kastenholz does this regularly with his pup Carl, and often stops by my open hangar, Doug Sykes open hangar, and chats with Bob and Carol Leyner (from a distance). I suspect Bill also chats up our

EAA chapter with those he meets. You can too, exercise and fresh air does a body good, even if you don't own a dog.

The Flight Deck Grill, a chapter sponsor, is open for the season from 7:30-2:00pm, Wed-Sun, on good VFR days. Corona virus and all, the picnic tables are socially spaced. Grab a sandwich and chips/salad/desert/drink, say thanks to Dian for supporting us, then practice social distancing in your car, truck, or hangar. You'll find the FDG in the parking lot at the LMO FBO.

It may be a while until we can get a speaker for our chapter meetings, your officers are working on alternate solutions. Perhaps a video conference type meeting on the interweb. In the meantime, and to keep our brains fresh, there are a variety of internet based videos and webinars we can utilize at no cost. Of course my favorite is the "Hints for Home builders" videos on the EAA website.

The FAA also has informative webinars, most can be used for W.I.N.G.S. credit. They are generally announced on <https://www.faasafety.gov/> unless you subscribe to their email blast.

Mike Busch also uploads some very informative video seminars, you can find links to them here: <https://www.savvyaviation.com/> Click on resources.

Until next time; wear a mask or tin foil hat if you so choose, but most of all be safe!

Rick

While we're precluded from meeting in a group due to the virus, it's important to stay in touch through the chapter's newsletter. I thought I'd add a brief note of interest on a subject that holds a great deal of fascination for me. Let me encourage other chapter members to submit articles for the newsletter on subjects of personal interest, useful information to pilots, "PITA" regulations, etc. Share the wealth of knowledge and experience and let's keep our chapter connected!

Dick Socash

CLOUDS

I think most people who fly develop an interest in clouds. There's a lot of information on winds, temperature and atmospheric stability that can be gotten by looking at cloud formations. As a little kid, I often thought it would be great to fly in an open cockpit airplane and capture a

bottle full of cloud, never realizing that I'd end up with a bit of moisture on the inside of the jar when we landed. It didn't occur to me that ground fog and atmospheric clouds are the same thing. So what's clouds all about? It's useful to review several basic concepts such as temperature, humidity and dew point to understand what's going on in the sky.

Temperature:

As an object (solid, liquid, gas) absorbs energy, the atoms/molecules acquire kinetic energy. In a crystal, the lattice of atoms vibrates with increasing amplitude and frequency. In a liquid like water, molecules are continually undergoing bonding and free motion. (Think of a crowded dance floor where people are continually joining and then releasing hands with surrounding persons.) As things heat up, the average energy of motion of the water molecules increases until portions change into the vapor state forming bubbles. In a gas, the molecules bounce around unconstrained, and as the temperature increases, the separation and average velocity increase. In the atmosphere water molecules intermix with the nitrogen and oxygen molecules and are bounced around by random collisions. At a particular temperature, the collision process can keep a certain number of water molecules per unit volume in a suspended state. As the temperature rises, a higher density of water molecules can be suspended. As the temperature decreases, water molecules start to condense into a liquid state and once the average mass of the condensed droplets reaches the point where gravity has more influence than the random collisions, we get precipitation.

Humidity:

This is a measure of the amount of water vapor per unit volume that's suspended in the air mass. Relative humidity is measured on a scale of 0 to 100% where at a 100% the air at a particular temperature cannot hold any more water vapor.

Dew Point:

For a given amount of water vapor in the air, the dew point is the temperature at which 100% relative humidity is reached.

So what are clouds and why do they take the various forms and shapes? Under ordinary conditions, the atmosphere can be thought of as a volume of gas which has an amount of water vapor in it and decreasing density and decreasing temperature as altitude increases. At some altitude, the temperature reaches the dew point and a layer of condensation occurs, i.e. a cloud layer. The lateral range of this condition can be miles and in that case we get a solid overcast. Sometimes a column of moisture from a body of water or a plowed field rises and a local area of condensation occurs and one ends up with a cumulous cloud. In general the atmosphere is more complex and dynamic and the temperature behavior as one increases altitude can show layers of increasing and decreasing temperature, i.e. inversion layers. Also consider the effects

of wind blowing over hills or mountains. One only needs to consider how fast moving water behaves as it flows over rocks. Downstream there are peaks and valleys that extend for a considerable distance from the rock. Although water is essentially incompressible and air is compressible, it's safe to think of air behaving the same way as it's carried over a non-uniform land mass such as a mountain ridge.

We're fortunate here on the Front Range to be able to experience cloud formations formed by streams of air that are rising and falling after passing over the tops of the mountains such that the air reaches the dew point on the rising side of a crest and condenses into a cloud. On the downward side of the crest, the temperature at some point is above the dew point and the cloud evaporates. What looks like a stationary band of clouds parallel to the chain of mountain peaks is really a steady flow of air that is condensing and evaporating. When the wind aloft is sufficiently strong and the moisture content is constant over a range of a few miles, multiple bands of clouds will appear since there is more than one crest in the downstream flow. Rather than trying to explain too much in this note, I recommend the interested person Google "Clouds" and you will be inundated with as much good information and pictures as you want. Following are a few pictures taken locally of what I thought were interesting cloud formations.





Notice the sharp edges on some of the pictures. The air is moving west to east and rising and falling with little or no turbulence.

This last picture shows a local atmospheric instability that resulted in a rain shower. A second one that will probably go unstable can be seen closer in and at the right of the picture



So the next time you are flying in the high country, take note of the little wisps of clouds around some peaks or the edges of steep slopes. They tell a lot about the air patterns you are close to and are a good indication of up and down drafts.

COVID-19

By Haiko

Lacking the material to publish a full blown EAA 648 newsletter, I feel compelled to editorialize a bit, expressing my opinion regarding the present “pandemic” situation. I want everyone to understand that the following diatribe is strictly my opinion and has nothing to do with the EAA in general and EAA 648 in particular.

I just had to vent a bit.

Actually, this whole behavior of the American populous, as a matter of fact, the sheep like behavior of the rest of the World reminded me of how Adolf Hitler came to power in Germany in 1933 by declaring a national emergency after the Reichstag (the German equivalent of Congress) burned down.

With a fabricated pandemic like this, the declaration of Martial law is not far behind and a malevolent leader can easily assume the role of a dictator. Can it happen in this Country? You bet it can, judging by the Lemming like behavior of a great number of the American population.

How dare I to call this flu like pandemic fabricated? Well, I did some research regarding the events and illnesses that will cause people to die, way more serious than the COVID-19 “pandemic”. This data applies to the years 2018 and 2019:

Foodborne diseases:

To better quantify the impact of foodborne diseases on health in the United States, we compiled and analyzed information from multiple surveillance systems and other sources. We estimate that foodborne diseases cause approximately 76 million illnesses, 325,000 hospitalizations, and **5,000 deaths** in the United States each year. Known pathogens account for an estimated 14 million illnesses, 60,000 hospitalizations, and **1,800 deaths**. Three pathogens, *Salmonella*, *Listeria*, and *Toxoplasma*, are responsible for **1,500** deaths each year, more than 75% of those caused by known pathogens, while unknown agents account for the remaining 62 million illnesses, 265,000 hospitalizations, and **3,200 deaths**.

Flu illness:

Most flu seasons start off with lots of infections from influenza A viruses, which can be more severe and less responsive to vaccination than other subtypes, while generally less-severe influenza B viruses often strike later. But this year, the CDC says, two different phases of influenza A activity dominated the season, contributing to its unusual length. H1N1 circulated widely from October to mid-February, then H3N2 picked up from mid-February into the spring, according to the new report.

Even still, high early-season vaccination rates and a relatively effective annual vaccine appeared to help suppress illnesses. In total, the CDC estimates that up to 42.9 million people got sick during the 2018-2019 flu season, 647,000 people were hospitalized and **79,400 deaths**.

Highway deaths:

All told, about **38,800** Americans were killed on the nation's roadways in 2019, said Lorraine M. Martin, a figure she stressed "is still unacceptable." As a nation, added the president and CEO of the NSC, "we still need to demonstrate better commitment to saving lives. Roadway deaths can be prevented by doubling down on what works, embracing technology advancements and creating a culture of safer driving." Did we decide to stop driving because nearly 39,000 people were killed by this activity?

In 2020, the United States population is projected to be **333,546,000**, an 8.03% increase from the 2010 Census .

Here are the Totals:

Foodborne Illnesses resulting in death:	11,500	0.00003%
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Flu resulting in death:	80,000	0.0002%
Highway deaths:	38,800	0.0001%
Corona US death's to date, about	80,000	0.0002%

As one can see, the A and B Influenza virus kills about as many people as the normal annual flu.

As for treating flu, most people can just wait out their sickness at home, getting lots of rest and taking care not to infect others. But people in those high-risk groups — young children, pregnant women, people over age 65, people with other chronic diseases and people with compromised immune systems — may want to seek immediate medical attention and antivirals like Tamiflu.

Did you wash your paws?



In the meantime, there are other, even simpler things you can do to mitigate your risk of getting the flu or spreading the virus to others. **They include good old-fashioned hand-washing, covering your mouth when you cough, and staying home if you're sick.**

A nationally, well known Physician by the name of Dr. Blaylock, also a publisher of a wellness newsletter opined the following:

- The media has declared war on dissenting opinions, even from credible sources.
- There is evidence that long term face mask wearing poses health risks.
- Isolated people face increased risk of death from a number of causes.
- People who die from viral illness are most often killed by an intense immune reaction.

It was and is a medical fact that 95% of the people who have contracted the Covid- 19 virus either had no symptoms or suffered only a moderate or mild degree of illness, then quickly recovered. Of the 5% who suffered a more serious illness, the vast majority survived and made a full recovery. Not even extreme age worsened the prognosis significantly if the person was in reasonably good health prior to the infection. A re-evaluation of Northern Italy has demonstrated that the vast majority of those who died were 80 or older and were suffering from at least one to as many of three major illnesses.

Unfortunately, there is a great deal of lying and political posturing going on during this “pandemic”. For instance, we are now learning that a significant number of those counted as fatalities from Covid-19 were never tested for the virus itself. All that was necessary for a diagnosis of Covid-19 was to have one of three symptoms – a cough, shortness of breath or difficulty breathing. But people with heart failure (as well as a great number of other non-infectious conditions) also cough and have difficulty breathing. It also has been known for a long time that a frail patient who requires a respirator is very likely to die. This means, that people dying of pre-existing medical conditions (such as heart failure or COPD) were being counted as Covid-19 deaths, thus giving a falsely inflated number that made the death rate from the virus look much worse than it was. (There might have been a monetary reason as well to credit Covid-19 with unrelated deaths because the Government awarded a considerable amount of money to health care providers treating a Covid-19 patient. Ed.)

In addition, obesity significantly raises a person’s risk of serious complications or even death when he or she becomes infected. Numerous studies have shown that obese people suffer more inflammation than thin people or those of normal weight, and obesity is epidemic in our society.

The media has declared war on all dissenting opinions, even those coming from highly credible sources. They also insist that we must listen to no one but the “experts” at the Centers for Disease Control and prevention (CDC) and the World Health Organization (WHO) which are both, in my opinion, corrupt medical bureaucracies (says Dr. Blaylock)

The danger of wearing a face mask!

In this period of near panic over the Covid 19 virus, State and City Governments have instructed and in some cases mandated, to wear face masks of various types over their mouths and noses, under the mistaken belief that it will stop the spread of the virus. This has continued even though the CDC never suggested it in the beginning and research points to masks as being ineffective for preventing the spread of viruses. There is NO scientific proof that wearing a mask is effective for containing a pandemic. But then, politicians are not really interested in science. Furthermore, the surgeon general recently announced there was no need for people to wear face masks unless they were actively infected.

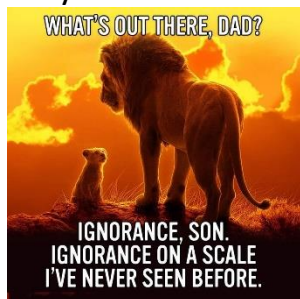
Try to communicate that to Costco, Sam's Club, Home Depot, Lowe's or any of the other big box stores and the reply you get is "we are just following orders". Communicate these facts to your County Health Department and the reply you get is "we are just following orders by the State". The Nazi war criminals had the same excuse in 1949 at the Nuremberg trials-just saying.

Is it actually dangerous to wear a face mask?

There is evidence that it is!

It is not natural to re-breathe exhaled air. After all, we exhale to rid our lungs of air that has high levels of CO2 and other unwanted gases.

But when you cover your nose and mouth, you end up re-breathing that air which raises your blood level of CO2. That can be harmful. In addition, face masks cause people to re-breathe exhaled viruses from the moist and warm environment of a face mask, thus increasing the number of viruses up the nose and into your lungs, providing viruses access to the brain through the olfactory (smell) nerves. The tight fit of the N95 mask can lower blood oxygen so much (up to 20% of the normal level) that a person can even black out while driving an automobile. It has happened! I have seen people alone driving their car wearing a mask. What are they afraid of?



Now let me briefly touch this idiotic term "Social Distancing". I personally see nothing "social" with this mandate. I actually call it "anti-social distancing". Social isolation can lead to serious despair and in some cases to death. "Sheltering in place", another stupid term coined by bureaucrats. There is no scientific evidence that this behavior reduces the risks associated with this pandemic, in fact, there is evidence that

sheltering in place has prevented people to get medical help for other life-threatening illnesses.

Never in the history of epidemiology or public health have healthy people been quarantined to prevent the spread of a disease. You quarantine the sick, not the healthy. That amounts to house arrest and seriously violates our Constitution.

So now that I have vented my anger, I feel better already!

Haiko

EAA 648 Chapter Officers:

- **President:** Rick Hall 303-747-2042 rick648@zggtr.org
- **Vice President:** Bill Kastenholz
- **Secretary:** None elected, Various volunteers
- **Treasurer:** Doug Sykes 720-684-8699 taildragers4cd@hotmail.com
- **Newsletter Editor:** Haiko Eichler 970-344-4599 heritmail@aol.com
- **Tech Counselors:** Bill Hannahan 303-618-7921 wfhannahan@yahoo.com
Doug Sykes 720-684-8699 taildragers4cd@hotmail.com
Brent Olsen 303-241-7884 brent.olsen.co@gmail.com

- **Flight Advisor:** Bill Mitchell 303-427-4025 billyav8r@yahoo.com

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