

**Officers:**

**President:** John Patton

**V-P** Jim Anderson

**Secretary:** George Vargo

**Treasurer:** Larry Fitch

**Staff:**

**Field:** Bob Anderson

**Website:** Jim Anderson

**Safety:** Scott Page

**Photographer:** Camille Page

**Instructors:**

Lyle Laughery (Chief Instr.)

Jim Anderson

Bill Bowen

Scott Page

Larry Salisbury



### President's Message

Thanks to Camille for the idea and skill to put together this newsletter. We hope to make it a regular part of TCRCM communication and club activities. Safety is one our major areas of concern, so Scott will use this for his safety messages. I'm looking forward to contributing to it, and if any of you have any ideas or want to contribute please contact Camille.

This is the time of year the Board of Directors begins planning for the new year. With the covid and all it is still a little problematic. We don't know where the pandemic will be by next spring. And even if mainly over, we don't know how folks will feel about traveling. I will keep you updated as we make decisions.

Our next big flying event is the Polar Bear Fly In on January 1. This is an opportunity for the first flight of 2021; we pay club dues for the new year (make sure your AMA dues are cur-

rent), and get a new gate combo. And, of course, an excuse to eat. We encourage everyone to bring a snack to share. More details to come.

Even with the covid, we have had an outstanding season of flying. Our hobby is one that can be enjoyed outdoors, in the sunlight, with ample distancing. There were many days, and not just on weekends, every starting table was in use and many other electricians around the shed. Even the parking lot was crowded. Does anyone want to be valet parking manager next year?

In the next issue I will give a more detail recap of the year and other items of interest to the club.

John



### From the Editor

Twenty years ago TCRCM had 71 members, a flying field in Finley, and a newsletter called "Leading Edge."

Currently our club has just over 50 members, a superb flying field, and now the reincarnation of the Leading Edge.

This is to be a club newsletter, not mine. Please contribute your knowledge, skill, bloopers, photos, and observations. Email them to Camille Page [cpage125@gmail.com](mailto:cpage125@gmail.com).

Thank you all for making TCRCM a great place to fly.

## From the Field Manager:

Our field has continued to improve throughout the year with the very necessary help from our maintenance heroes.



Thanks to all in keeping the site clean and in good order.

Mowing this past month we must thank

**John Patton,**

**Larry Fitch** and **Larry Salisbury** for seeing a need and taking care of it. The sudden cold spell caught me with water in the above ground pipes subject to freeze damage. **George Var-go** saved the day by borrowing a portable compressor to remove the water before the 25 degree nights. George is a "Man of Action." Also, vital to the tractor maintenance was **Dan Royer**. With his help, the electric clutch was replaced and the deck blades replaced.

Thanks Dan!

Editor's note:  
A HUGE thanks to  
**Bob Anderson!**

## Building TIP:

Lining up the spinner and prop can be tedious. In the pictures below you can see that I cut the head off 2 50mm M3 bolts so I had 50mm continuous thread. This is threaded into two of the four bolt holes in the spinner back plate. The spinner is then slid over these threads to fit and adjust the prop's position so no part of the prop touches the spinner

Gently remove spinner and tighten the prop nut. Leave the continuous thread while aligning the spinner and installing the first two bolts. Then remove continuous thread and replace with the two bolts that belong in those holes.



Dave H. makes an impressive low inverted pass.



Look Closely -  
Rob is above the ground with his Avanti.

Jake Pulsipher's 3D printed plastic plane "Dusty" from Disney "Planes".



## Internet Resources

<https://tcrqm.com/>. Jim Anderson is the webmaster for TCRCM. He does a magnificent job adding content and keeping us informed. When you check out the website you will find information on who we are, field and flight safety, how to join/renew, and events. One special feature is FLYING TODAY. This is where you can let other club members know of your plans to fly today or in the future. Pilots can sign up to receive e-mail notifications of flight plans. <https://tcrqm.com/flying-today/>

More can be found on our club Facebook site. Many photos and ideas have been added this summer.

<https://www.facebook.com/TriCityRCModelers/>



TCRCM is rich with instructors, trainers, and specialized knowledge. Club members and guests benefit from the wealth of experience. Several club members have been known to come to the field and spend hours helping other pilots without even getting to their own aircraft.

One new club member commented that they had never seen such a helpful and friendly club.

To fly in 2021, pilots need to renew their

\* AMA <https://www.modelaircraft.org/renew-membership>

\* TCRCM dues. This can be done directly to our treasurer or online. <https://tcrqm.com/on-line-membership-application-and-payment/>

Next newsletter will include information on renewing the FFA mandates.

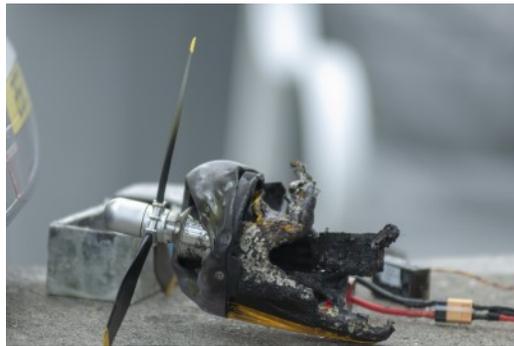
# Shop Safety

R. Scott Page

**Overview:** The most important safety tool in the shop is your brain. The most dangerous thing in the shop is hubris. If one allows manly pride to get in the way of common sense in the shop the result can be a sudden injury or a more insidious gradual loss of hearing, breathing, or even cognition.

**Eye protection** can be purchased at most hardware stores, home improvement centers or where tools are sold. Wrap around eye protection is superior to standard eye glasses. Consider wearing eye protection at all times when working in your shop — especially when operating a model aircraft engine/motor or power tools.

**Fire extinguishers** can be purchased from most hardware stores and home improvement centers. It is a good idea to have one in your shop and another as part of your field equipment. Many of the chemicals and fuels we use are highly flammable. Don't keep the fire extinguished adjacent to your lipo charging station as you'll want to be able to access it in the event of a fire.



**Smoke detectors** are extremely useful directly over lipo charging areas as well as someplace else in the shop.

**Hearing protection** can be purchased in sporting goods departments and gun shops. Often hearing loss advances as an incremental change. You won't notice the change, but one day you'll

realize that you don't seem to get the gist of many conversations and people seem confused by your responses. With progressive hearing loss you'll be at increased risk in everyday activities such as driving or even just crossing the street. This is also problematic when pilots are communicating on the flight line.

**Ventilation** is extremely important. If you are using solvents or solvent based products then you can be doing a great deal of damage to your respiratory system and brain. If you have gotten to the point where the solvents do not make you want to leave the room then you have been around them for too long and have developed a tolerance. That's a bad thing. Even things such as Epoxy should be use with great caution.

“Breathing epoxy fumes can affect the respiratory system. Typical symptoms of respiratory harm include inflammation of the nose, throat, and lungs, causing irritation. High amounts of exposure to epoxy fumes before and during the curing process can lead to sensitization and asthma.”<sup>1</sup> Asthma, COPD and other lung damage are also progressive processes. You may not notice a change in lung capacity of efficiency occurring until you pass some tipping point after which it progresses quickly to severe disability or worse.

**Masks:** Particle and dust masks come in a variety of capabilities. Always read the packaging so you know what you are getting. If the packaging does not specifically tell you what the mask is supposed to protect you from and just as importantly, what it can't protect you from, then do not buy the mask.



Particle masks are usually intended to protect you from inhaling dry airborne particles such as sawdust. Exposure to wood dust has long been associated with a variety of adverse health effects, including dermatitis, allergic respiratory effects, mucosal and nonallergic respiratory effects, and cancer. Contact with the irritant compounds in wood sap can cause dermatitis and other allergic reactions. The respiratory effects of wood dust exposure include asthma, hypersensitivity pneumonitis, and chronic bronchitis 2.

A Particle or Dust Mask including N95 will not protect you from vapor. For that you need a chemical protection cartridge mask. Chemical Protection Systems can be purchased at many hardware stores and home improvement centers. Protection should always be worn when using liquid chemicals that are toxic. Currently these masks are in short supply, but that will change in the future.

Some chemicals and paints require the use of a simple chemical mask that uses charcoal or similar canisters to filter out the chemical. Canisters have a short shelf life after the packaging has been opened. You must replace the canisters per the manufacturer's recommendation for the mask to continue protecting you.

Always consult with the manufacturer of the chemical for their recommendation to protect yourself.

Note that if you are wearing a mask and can smell fumes it is not protecting you. Just because you can't smell fumes doesn't mean you are protected but smelling them means you definitely aren't protected.

**First Aid kits** can be purchased at hardware stores and stores that carry home safety equipment.

**Use the right tool** for the job. Any time you use a tool to do something it wasn't designed to do, you risk injury to yourself, your model and the tool.

**Knives** should be capped if possible and should never have the blade exposed and hanging past an edge of a shelf or workbench. Don't store knives in cups with the blade pointed up. If you want to store knives in a cup cover the bottom of the cut with modelers putty to protect the blade. Additionally, make sure knives are out of reach of children and are unable to roll off the workbench. I heat shrink a small linkage wire or piece of carbon fiber to the handle of my Xacto knives so they won't roll... you get the idea.

**Eliminate clutter.** Clutter is a great way to create accidents such as tripping over extension cords, getting items caught up in power tools, or inadvertently catching flammable materials on fire with a heat producing tool. For example, the tiny 50-watt light bulbs on my Lipo discharger get sufficiently hot enough to cause a discarded tissue to combust.

Be sure you have a stable position while you work. If you have to use your feet to move you to a place where you have better stability then do it. Do not put yourself in a precarious position trying to reach something that is too far away or too high.

Affix to the workbench tools such as bench grinders, drill press, vices.

**Finally:** Engage your brain and set your manly pride aside before working in the shop.

