KRCS NEWSLETTER FLYER

Keystone Radio Control Society

MEETING NOTICE

The September Meeting will be held Monday September 11, 7:00 PM at Creamery Field

EVENTS

Sept. 16 Make a Wish Capitol City Airport

CLUB OFFICERS

President Jim Geiger
VP Regis Doyl & Herb Henderson
Secretary Dan McNeil II
Treasurer Neil Matz

BOARD-2016/2018

Glenn Shaeffer
Ron Campbell
Chuck Bruggerman
Bob Krehling
Sam McLenegan
Chris Rosing

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From the President

Presidents Message
September 2017

Guess what, the summer is coming to an end! Although I missed them all, it sounds like our fun fly events went off well. Thanks to Chris, Regis and Herb and Dan for their efforts in putting on these events.

If you have been to the field lately you know we have a road problem (no way we can beat the water!). Tuck used his tractor to salvage as much of the gravel as possible and did a good job, Thanks Tuck!! It generally seems like a futile effort to continue to pour good money after bad to fix it. (not to mention we don't have enough money in the treasury to continue). Our approach will be to get fill where we can (Bob W. may have a lead on some slag for an affordable price and Glen is working on some millings from the airport). We will see how these two efforts go.

Our September meeting will be on the 11th.

Everything else seems to be status quo. Grass cutting is being kept up but we can still use volunteers to step up on occasion. Just go by and check it out.

If you have followed both Harry and Dan's e-mails you know something is in the wind with the "drone" regulations. Looks like the FAA is still trying to get their piece of the action. The AMA seems to be on top of things also. Stay tuned.

See you at the field and next meeting!

Jim Geiger

Soon time to renew the AMA and Club Membership Dues

KRCS August Meeting Minutes

August Meeting

Members Present- 10

Guest- 0

7:00 Pledge Led by our President Jim

VP- Report- Issue with road washout. New rake on the backhoe to try and fix the road.

Treasure – Dan McNeil

Potential members:

Field report- Bridge is recovered and needs repaired. Main bridge needs shored up to prevent it from being washed down.

Civil Air patrol event went well.

September 16, Make a Wish Foundation Capital City Airport

Fun Fly

August 19- Dan McNeil

Motion to adjourn – Sam- Regis

MAVIC ROTOR DAMAGE REVIEW

By Harry Capper

On August 17th, my DJI Mavic Pro quad-copter was involved in a mid-air collision with a Radian UMX sailplane. The Mavic continued to fly with no apparent damage, but the right wing of the Radian was shredded and it came down immediately.

After landing, I discovered that one of the Mavic's rotors was cut almost half way through in two places. Some have asked how the much softer foam wing of the sailplane could have damaged the tougher plastic rotors on the Mavic.

The answer lies in a visual review of the damaged rotors.

I added white arrow heads to indicate where the cracks are. The cracks are in the areas between the arrow heads, and the short straight white lines indicate approximately where the cracks stop. I could not get enough detail in the photo without a lot more work to make the cracks stand out, but you can see them visually when you look at the blades. Also not apparent in the photo, there is some scuffing on the other blade, indicated by the three arrows I placed towards the trailing edge.

The key here is the folding nature of the Mavic rotor blades, and that all of the damage is on the trailing edge of the blades, and none on the leading edges. The only thing that holds them 180 degrees apart in normal flight is centrifugal force.

It becomes apparent that the initial impact between the two aircraft forced the blades to swivel into each other. Since there are two cracks in one of the blades, and scuffing on the trailing edge of the other, it is almost certain that there were at least three strikes hard enough to fold one blade against the other. It is also reasonable to expect that all of the damage occurred on the trailing edges, because they are much thinner than the opposing leading edges. Judging from the great number of pieces that the Radian wing was shredded into, there were probably many more lesser strikes.

The primary cause of the damage was the impact between the wing of the Radian and the Mavic rotor, but the secondary was the impacts of one blade into the other.

Our field in February 2017