



Glitch Busters

February 2020

SIAI-Marchetti SF.260
flown by Andy Kane
(11/23/1957 -12/30/2019)

EVENTS

WARBIRDS OVER DELAWARE
July 8-11, 2020

LUMS POND IMAC CHALLENGE
September 11-13, 2020

NAT'L MODEL AVIATION DAY
August 8, 2020

FLEA MARKET AND SWAP MEET
November 7, 2020

DECEMBER MEETING NOTES - by Tom DiCuirci

3 December 2019 General Membership Meeting

The meeting started at 7:00 PM

Flee Market

- ✦ This was an outstanding success, we thank all who came and helped
- ✦ We thank all of those who purchased tables
- ✦ We made a great profit!

Freeze Fly 1 Jan, 2020

- ✦ Mark your calendars
- ✦ Bring your new stuff and show it off!
- ✦ As always, there will be food, but it is asked that members bring a covered dish.
- ✦ Bring your aircraft you want to show off.

Club Decals

- ✦ A member brought up that there was interest in having a club Decal for purchase.
- ✦ The board will look into this.
- ✦ If there is any talent for making this happen, please step forward.

Safety note

- ✦ Everyone wants to enjoy a safe time while flying
- ✦ As a friendly reminder, if you are doing 3D maneuvers, you need to make sure you are over the tall grass. This gives a safety distance in case something should happen and you do not fly over the pits.
- ✦ A special thanks to Mike Watson for stepping up and taking the role for Safety in our Club.

Club Roster

- ✦ There was a great discussion about the internet, its security and the club roster
- ✦ Unfortunately Brian was not there to address the specifics, but each club member has the option of choosing if they wish to have their information access able.
- ✦ After the meeting I did some research and I found that Brian has done a great job with password protecting the roster.
- ✦ The bottom line is that you must be diligent with your Personal Identifiable Information (PII). The world is a different place now. Take measures to protect your identity.

Newsletter

- ✿ There was a discussion about the newsletter, the content and the timing.
- ✿ The board will be meeting to discuss this and how to make things better for the club information.

Show and Tell

- ✿ Paul Bryk brought a small drone that looked like a little man. He shared it by flying it around the room and had amazing stabilization features. It even performed tricks. He purchased it at the First State Hobby Shop. It was also stressed that we have two new hobby shops. The one on People Plaza and the one in North Dover that moved out of the mall. Please support them.

JANUARY MEETING NOTES - by Tom DiCuirci

7 January 2020 General Membership Meeting

The meeting started at 7:00 PM

Freeze Fly 2020

- ✿ The day was an outstanding success to kick off the new year of 2020. Happy New Years to all! Thanks to all that came out and had fun and ate the food, we had plenty of it. We even some different food and needless to say, there was not much left! There was a lot of flying and fellowship the way we like it. What an amazing day!

Club Decals and license plates

- ✿ Members have brought up that there was interest in having a club Decal for purchase and additionally another brought up license plates. We are going to look into this to be available for members or anyone to purchase. As always if there is talent within the club with ideas on this, please let the board know.

Safety note

- ✿ As a friendly reminder for 3D flying, please make sure you are over the tall grass while doing your maneuvers. We have some really talented people/pilots in our club and they put on some great impromptu shows. We ask that you do it safely. This gives a safety distance in case something should happen and you do not fly over the pits.
- ✿ A special thanks to Mike Watson for stepping up and taking the role for Safety in our Club.

Club Roster

- ✦ There was a great discussion about the internet, its security and the club roster. Brian Pasternak was there to remind us that if you don't want your information visible, just tell him. There is always an area on the application each year that asks you if you wish for your information be shared. Over the holiday's members have received texts and emails from an unknown source asking for information or to reach back. Freddie made a great point; if there is a doubt just call the member (if it appears that it came from a member) or ignore the email or text. It is most likely a scam. Protect yourself and your information.
- ✦ Brian does an excellent job of password protecting our club information that requires it. The bottom line is that you must be diligent with your Personal Identifiable Information (PII). The world is a different place now. Take measures to protect your identity.

Show and Tell

- ✦ Unfortunately, there were no show and tells during this meeting.

Treasurer news

- ✦ Ron brought to the club and item of interest that relates to security and would help the accounts with club funds. He wanted to open an additional checking account that was not tied to PayPal. The idea behind this action was to keep critical fund we use for major events separate from operational costs such as porta potties and other expenses. It was brought forward to vote after Ron gave great details on the justification. It was passed. Thanks Ron for keeping our funds secure!

Membership

- ✦ Brian informed us that during the 2019 season we were 138 members strong

Future flying and non-flying events

- ✦ Some dates were put together for 2020 so folks could plan accordingly. Here are the tentative dates.

- ✦ April 4th Spring clean up
- ✦ May 16th Fun Fly
- ✦ July 8 thru 11 Warbirds Over Delaware
- ✦ September 5th Club picnic
- ✦ September 12th Lums Pond IMAC Challenge.

- ✦ Note: as stated in the recent past, we tried to get East Regional Finals for IMAC at our field, but due to the size of the event, they have chosen Hagerstown, MD instead

- ✿ Please note that these dates are not all inclusive. If a member wants to step up and host an event, we can help with that to get them started. We have the CDs to do it. Ideas are always welcome.

FAA Drone regulations

- ✿ This topic was brought up as a discussion and we had Mike Watson our safety Rep. and FAA subject matter expert step in and lead a really good discussion on the details along with some other club members.

Local Hobby Shops

- ✿ Folks as a reminder we have two hobby shops in the area. In north Dover we have Hobbytown USA. The owner is in our club and also in Kent County Aeromodelers as well. I get to the store almost every week to show my support. During my recent visit getting some building supplies he mentioned getting Hangar 9 aircraft and DLE engines. Of course my ears perked up. Let support this family. The more we support the more he can carry/support us. There is also First State Hobbies. Paul Bryk during the last meeting showed us his little drone that he bought. I also visited this shop recently and purchased some CA. They do have transmitters, batteries chargers and some others items. They do cater to the R/C Car community, but they are getting better. Really nice people just like in Hobbytown.

Events in the area

- ✿ Mike Denest was nice enough to share an upcoming event: On January 17-19, 2020 at the Lebanon Valley Expo Center Saturday: 9:00 AM - 5:00 PM Sunday: 9:00 AM - 3:00 PM. The website is: <https://www.cabinfeverexpo.com/>
- ✿ Also mark your calendars for Lebanon: Saturday March 14 Here is the website advertisement: <http://cpaa.us/>

FREEZE FLY - Roger McClurg

January 1 rolled around chilly, breezy, and rather gloomy, but that didn't deter our members from going to the field to enjoy the Freeze Fly. This year's event seemed to be better attended than the past few. The weather wasn't conducive to flying, but several members came to fly, and fly they did. Others were content to visit with other members, and enjoy the warmth of the pavillion.

The food at the freeze fly is usually pretty good, but this year it was terrific. Believe it or not, Tom Dicuirci roasted a turkey under a garbage can. I'm not kidding. The turkey was tender and delicious. Ron Becker, our new Treasurer, was not to be outdone. He brought barbecued ribs that were fantastic. Members ate and ate like there was no tomorrow.

If you missed the Freeze Fly this year, why not make it a point to come next year. Good weather or bad everyone has a good time.











Pics by Tom DiCuirci



3D PRINTED RC MODELS - Roger McClurg

I'm sure that many of our readers have heard about 3D printing in the news. 3D Printing seems to be everywhere now days. Companies are making parts and even whole assemblies with 3D printing. A recent news story talked about a complete rocket motor that was 3D printed, and yet another story talked about a 25 foot boat hull that was 3D printed in one piece. Now auto manufacturers are even talking about 3D printing an entire car. 3D printing only seems limited by imagination.

R/C modelers are rapidly getting on the 3D bandwagon. Many companies that sell R/C products are adding 3D printed parts to their product lines. Iflytailies.com, a company that sells scale pilots and interiors for R/C airplanes, uses 3D printing to make many of the parts of the cockpit interiors it sells. The company also makes entire custom 3D printed cockpit interiors. Another company, 3D LabPrint, sells files to print entire airplanes. They sell files to print lots of airplanes including: a PT-17, Spitfire, P-51, P-38, B-25, even a ducted fan F-86. 3D LabPrint provides detailed videos showing how to print and assemble their models.

Not everyone owns a 3D printer, and even those who do own one may not have the skill to perfectly print lots of large 3D parts. Enter 3D printing services. They will print the models for you. I even discovered a couple companies that specialize in printing models from 3D Lab Print for a very reasonable price. When asked if they objected to others selling their models, the 3D LabPrint representative said that once someone pays for the model files 3D LabPrint doesn't care what they do with them.

If you have a 3D printer, but don't want to print an entire airplane, you can print parts such as formers and ribs for a traditional balsa and ply airplane. You can make replacements for broken parts like an electric motor mount, or print new parts for an

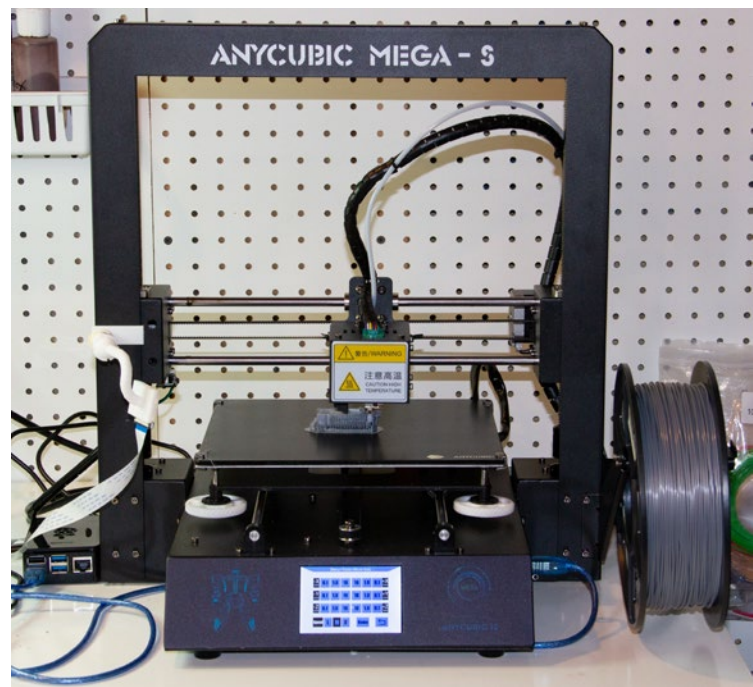




existing airplane such as exhaust stacks, a pilot, a servo mount, even a power pod. Multi-rotor fliers can print entire frames, frame parts, GPS mounts, etc.

Most 3D printers use plastic filament that typically come on 1 kg spools. The filament comes in many colors and types. The most common type of plastic used in filament is PLA (Polylactic Acid). It is rigid, reasonably strong, and prints at low temperatures. PLA doesn't create toxic fumes when heated, and is even biodegradable. PLA is one of the easiest types of plastic filament to use, it is even used as the base for filament used to print carbon fiber, wood, and metal. A few of the plastics used for 3D printing such as Nylon and ABS (Acrylonitrile Butadiene Styrene) are more familiar to modelers as they are commonly used to make parts we commonly use in R/C. Nylon and ABS require more work to use, as they must be maintained at a constant temperature while the part is being printed, and ventilation is needed because these plastics give off toxic fumes when heated. Even though they require more work Nylon and ABS print beautifully, and make excellent R/C parts. The choices for filaments don't stop at these three. There is a flexible TPE filament that can be used to make parts like tires. The list goes on and on.

Scott has been interested in 3d printing for a long time. This year he got a 3D printer for

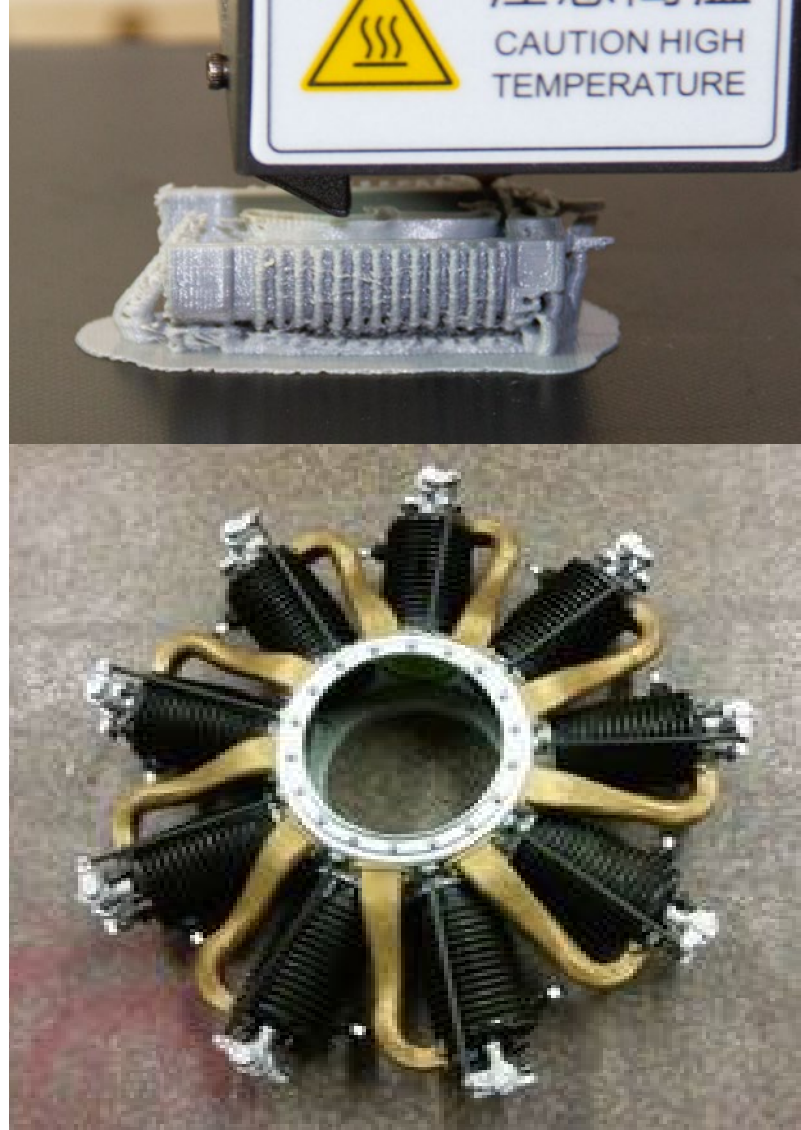


his birthday, and has been printing things like mad. We hooked the printer to a Raspberry Pi micro computer, which lets us control the printer remotely. I got a micro camera for the Pi, Scott printed a support arm for it, and now we can watch the printing in real time from our laptops.

We recently used the printer to make parts to make a dummy rotary engine for my Sopwith Pup. The crankcase, cylinders, exhausts, rocker arms, and push rods are all separate parts, that once printed need to be sanded, painted, and glued together. I got the print files from a site that provides thousands of 3D print files that can be downloaded for free. There are lots of such sites on the Internet. I found several versions of the le Rhone engine. The one I selected was originally for a 1/3 scale airplane. I adjusted the files to print at 1/6 scale. Reducing the scale complicated the printing. Luckily, Scott had several ideas that made the resulting parts look great.

I'm currently finishing the parts in preparation for painting. The finished engine should look like the one to the right.

Here are some sample R/C models that were 3D printed from files that were purchased online.







Glitch Busters

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