

The Seminole Flyer



Charter member of the
Academy of Model
Aeronautics since 1969

AMA Charter Club 216



50 Years of Responsible Model Aviation and Community Support

June 2020

Field Views and First Flights

The condition of the field continues to improve, and members stepped up this week to add temporary pilot stations and mark the infinite safety line and fence lines. Thanks go to Mike

Atkinson for building the pilot fences and to Randy Yarborough for painting the safety line.



On the right are views looking east, and on the left and below are views looking west. In the picture below, barely visible is a red and white striped "barber pole" installed on the fenceline of the overflow parking area.



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Next Club Meeting

July 16, 2020
Time and format TBA



Stakes at the east and west ends of the runway have been upgraded and re-flagged. The stake centered on the pavilion has also been reset.

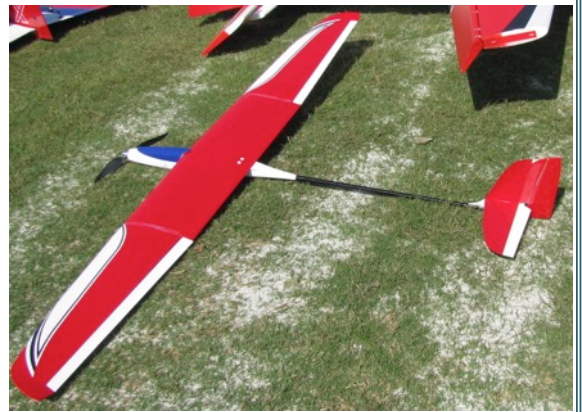


With all the building members are doing these days, we're seeing some new planes at the field and in the air. Interestingly, there seem to be more sailplanes than we've seen in the recent past.

Jay Wiggins launching his Pulsar 3.2



Ken Kushner's Sweet E



First launch of Robin Driscoll's Sprint



An unexpected visitor at the field



From Randy Yarborough: Safe flying!



From the Editor: Thanks to all who sent photos and news. Keep 'em coming! Email to robin.marcy@gmail.com

How to Crash

Geoff Lawrence

When choosing a topic to write about, I've always heard you should write about something in which you're a subject matter expert. So...

Maiden Flight:

- No need to check control throw directions or travel. Just get your new plane in the air and you'll know right away if you got everything right.
- Do not waste your time checking the CG per the instructions. As with control throws, the best way to check it is in the air.

Take Off:

- Pay no attention to the wind direction. The plane doesn't know or care which way or how hard the wind is blowing. The windsock is there only for field decoration.
- Always practice short field takeoffs. Even if the plane does not have enough airspeed to fly, it will still jump majestically into the air.

Landing:

- As with take offs, the plane doesn't care about the wind speed or direction. Land whichever direction you're most comfortable with.
- On approach, if you're too long and fast, just force the nose down. It will land and you won't have to walk so far.

Dead Stick:

- This is a very popular method of ensuring crashes.
- With a glow engine plane on the bench, tune the needle valve for the leanest mixture possible for the engine to run.
- Never bother checking or replacing glow fuel plumbing. The silicone tubing we use never ages or leaks nor does the clunk line ever get stiff.
- With electric, no need to verify the battery you're installing is fully charged. Since a dead battery and a fully charged battery weigh the same, there can't be much difference in flight times.
- Always use your oldest and most swollen battery pack in your best electric aircraft. Obviously, a big fat battery pack can hold a much greater charge than a newer, flat-sided pack.
- When making a dead stick approach, slow the plane down to the point it's on the verge of a stall. Then turn downwind to set up the approach.

Jets:

- To ensure you have plenty of flying room, hold your flight direction for a longer period of time than with a slower plane. If you get it back, be sure and float it in for landings like a trainer.

(continued on next page)

Pylon Racing:

- Always cut the poles as close as you can. This greatly decreases your lap times.

Aerobatics:

- We all love to wow the crowd with our stunts. Practice high rate spins and hold the spin for as long as you can as the ground approaches. It doesn't matter if you try and recover while still on high rates.
- Practice 3D flying at every opportunity. Always try to hover as low as you can. Nothing wows the crowd more than tail touches while hovering. It doesn't matter if you can't do 3D stunts on the simulator; practicing in the air is much more exciting to watch.
- Always pay close attention and heed the advice of the peanut gallery behind you. If they shout "lower", show them what you can do.

Try to fly like Ed and Troy. If they can do it, you probably can too.

All of the above techniques and methods have been thoroughly tested by me and found to be very effective. If any Club member would like to contribute an innovative and creative tip that has worked for them, please share your expertise with the Club by sending a note to Marcy.

Maybe we can start a "How to Crash" column in the newsletter.

Editor's Note:

My first launch of the Outlaw didn't go quite as planned. It seems taking off from an easel isn't as easy as it looks! I might have gained control if the Portapotty hadn't been in the way. Turns out, that's the safest place at the field. I don't think it suffered even so much as a dent!



Club Meeting News

Jeff Owens, Secretary

This month's meeting was held as a video conference using Zoom. The meeting was called to order by President Jay Wiggins at 7:05 PM with 14 members signed on.

Member Recognition – Marcy Driscoll for her work as the new Newsletter editor and for setting up the Zoom meeting; Mike Atkinson for his training activities with three new students; Dan Ouellet for his latest 3D printing article; Geoff Lawrence and Bill Ashbaker for their work getting the Children's Miracle Network check delivered.

Vice-President's report – Rhett Boudreaux – nothing to report.

Secretary's Report – Jeff Owens – The minutes of the May Zoom meeting were posted on the web and in the Newsletter. They were approved as posted. Sympathy cards were sent to the families of Don Dotson and Joe Cortese.

Treasurer's Report – Bill Ashbaker – The report was presented and approved by the membership. A check for \$2955 was presented to representatives of the Children's Miracle Network.

Safety Report – Jim Ogorek – watch out for FOD – debris such as sticks or small stones on the new field. Please remove these if any are found. Also, pick up remnants from a crash such as broken props or more.

Training Report – Geoff Lawrence – Mike Atkinson has been working successfully with three new students.

Field Update – Jay Wiggins – The grass is growing, the sand is working in, and the bare areas are getting smaller. The Leon County Planning department is holding up progress on the pavilion and field pending a new environmental permit and a decision as to whether this is a new project or a relocation of a previous project. A decision is anticipated "soon." There have been reports of people driving on the runway (and doing damage), flying behind the "infinite safety line", and of some members confronting others when they are reminded of the new rules. Efforts will be made to make clear the areas from which we can fly and the orientation and location of the safety line. Jay will send out an email after the meeting to remind members of the necessary safety rules while we transition from being guests of the county at our unfinished site, to the final rules that will be in place once the facilities are completed. A Board of Directors meeting will be scheduled to discuss new signage and safety line markings.

Newsletter – Marcy Driscoll – please keep sending pictures of projects and of flying activities. The Newsletter will continue a theme of "Show and Tell" as was done in the last two issues.

Show and tell – Jim Ogorek: A Quickie 500 kit is available from Old School Model Works (oldschoolmodels.com). Devcon has developed a one part equivalent to JB Weld that works quite well. It is called Metal Patch and Fill.

The meeting was adjourned at 8:26 PM.

3D Printing Basics, Part 7

Dan Ouellet, 3D.DanoSoft.Com

The last article (part 6) provided an overview of the basic steps that should be performed each time when starting to print of an object. This installment (Part 7) looks more closely at how I go about finding an object to print.

Finding objects to print

The previous articles in this series provided tips, procedures and general guidelines on selecting and calibrating a 3D printer, so that you can print the various objects you may desire.

Before printing an object, you need the specific 3D files to make that object. These files are typically in the STL file format.

But where do you get these files?

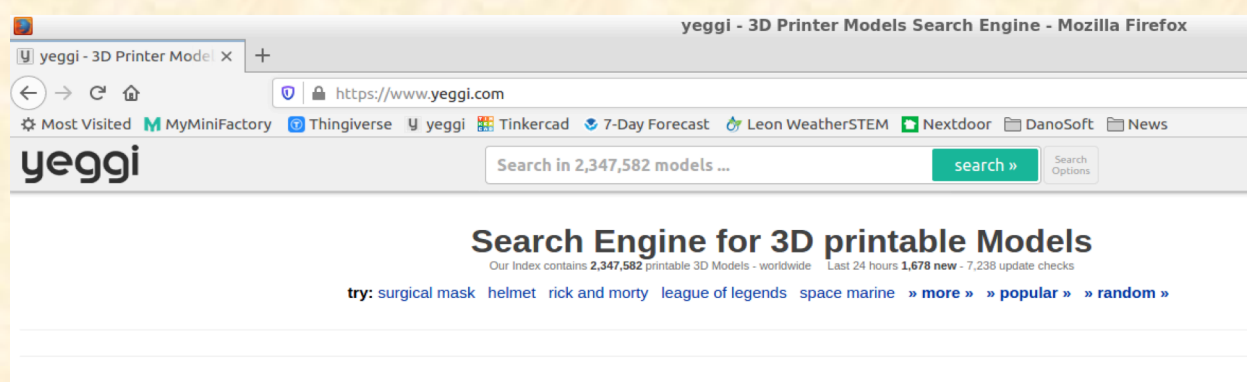
Some should have already come with your 3D printer as test objects on an included SD card. However, the choices are usually limited to a few fun models, and sometimes, only one.

Alternately, you could use specialized 3D drawing software to design your own object and generate the STL files yourself. This is the best way to get exactly what you want, but it requires learning how to use the software along with the skill and time to do so.

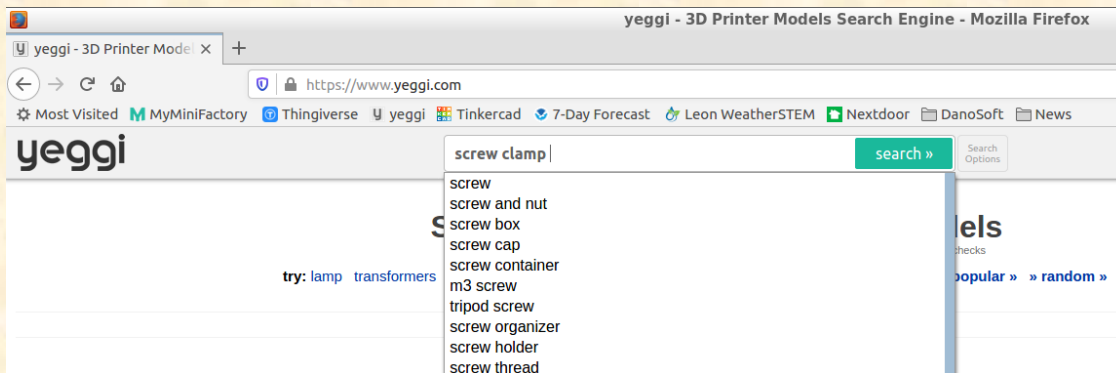
More commonly, you could search on the Internet to find an object designed by someone else that meets your requirements.

A good place to start a search for such an object is on “Yeggi” – a search engine website dedicated to indexing printable 3D models that are available in many different repositories around the world. As of this writhing, Yeggi contained listings for over 2.3 million different printable objects and had added more than 1500 new listings in the previous 24 hours. Therefore, there are many 3D models to choose from.

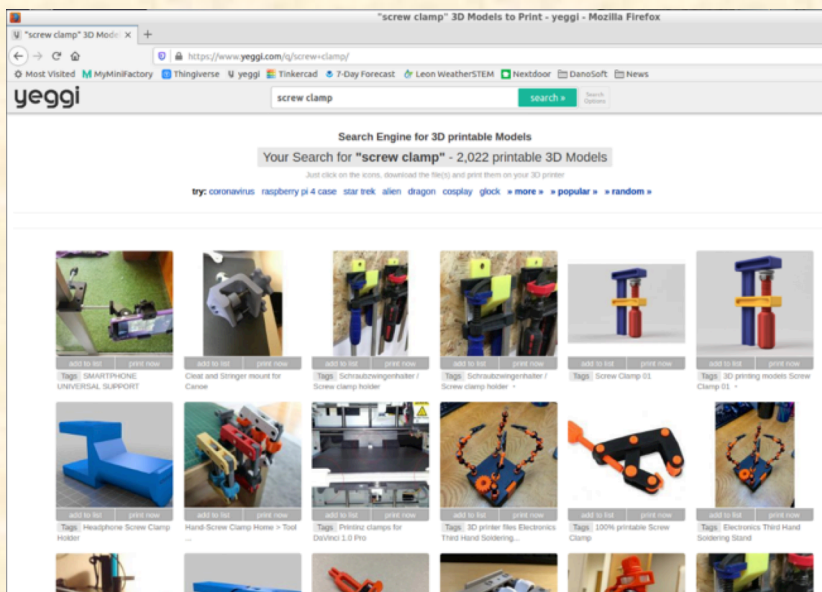
As an example, the rest of this article will describe the process I used a few months ago, when I needed some medium size Screw Clamps to hold parts in place while gluing them. I could simply have bought some, but where is the fun in that? Instead, I opened my web browser and navigated to Yeggi to see what was already available:



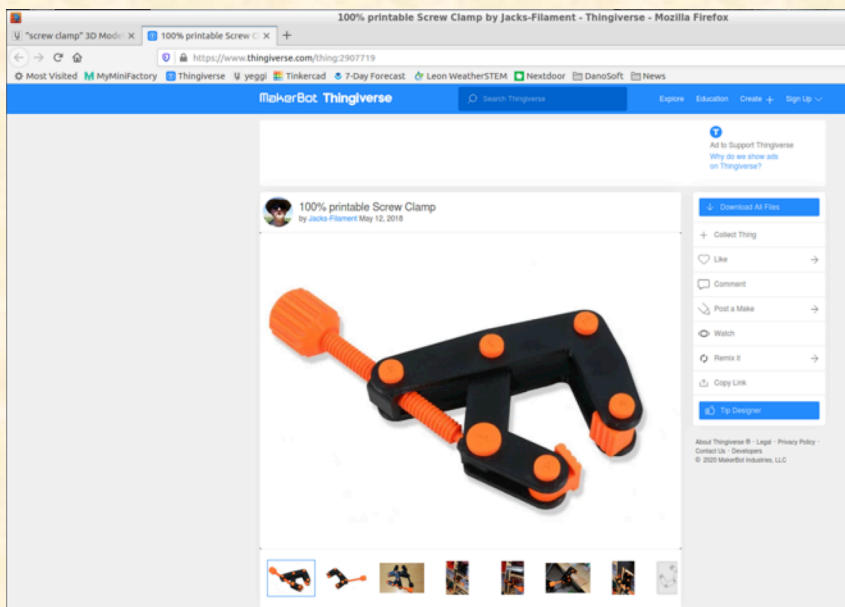
I began my search with the term “screw clamp:



Yeggi quickly showed me that it had indexed 2,022 printable 3 D models that matched my search.



The 5th one on the second row – The black and Orange 100% printable Screw Clamp got my attention, since it looked like what I wanted, and the description was encouraging. To make sure, I clicked on it to open the original webpage on Thingiverse.



Before going any further, it is a good idea to review all the information on the listing to make sure it is the object I want. This includes the pictures of the object and all its various components that are supplied to make it, along with the summary and instructions provided down the page.

Of particular interest to me was that the designer claimed all the parts except for one could be printed without support.

Parts that can be printed without support or “supportfree” make post-processing much easier since they can simply be printed and used as is off the build plate without any filing or sanding. This is something that is very much appreciated and it shows that the designer put in the extra effort to simplify the making of the object.

Further, while reviewing the pictures of the object, it looked like the components were stored separately in the correct orientation for the printing process.

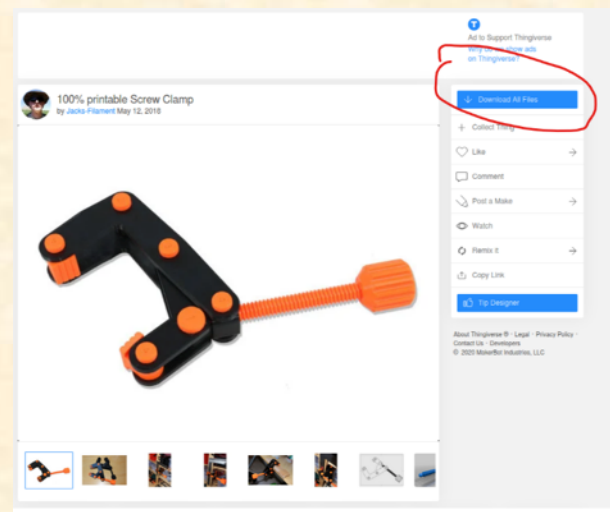
Everything I have seen so far inspired confidence in me that the object was in fact the right one for me.

The next step was to download the object’s 3D file(s), typically STL file(s), to input into my slicer software so it could generate the specific gCode file(s) that were applicable for the particular 3D Printer and the material that would be printing it.

To do so, I clicked the “Download All Files” button.

In this case, the download was a zip archive with the STL files, plus licenses, pictures and documentation to assist making the parts.

Once I had the required files, it was a simple matter to load them in my slicer and create the required gCode for my printer and the material I planned on using.



Next installment

For the next installment(s), I would love to hear what you would like me to discuss or look at more closely on this subject matter. Please feel free to contact me with any questions, issues, comments or suggestions regarding 3D printing as it applies to our hobby – dan@danosoft.com.

Useful links to sites with useful 3D printed tools

- **Yet ANOTHER Machine Vise**
 - URL: <http://www.thingiverse.com/thing:2064269>
- **Screw Clamp**
 - URL: <https://www.thingiverse.com/thing:2907719>
- **Customizable Sanding Sticks**
 - URL: <https://www.myminifactory.com/object/3d-print-customizable-sanding-stick-43118>
- **Variable Corner Clamp**
 - URL: <https://www.myminifactory.com/object/3d-print-variable-corner-clamp-49562>
- **The online store for the objects that I design**
 - URL: <https://www.myminifactory.com/users/DanoSoft>

Seminole Radio Control Club

Tallahassee, FL

Officers

President	Jay Wiggins (moonangelb@gmail.com)
Vice-President	Rhett Boudreaux (geobatch@aol.com)
Secretary	Jeff Owens (jfolso@comcast.net)
Treasurer	Bill Ashbaker (bill.ashbaker@comcast.net)
Field Safety Officer	Jim Ogorek (jim.ogorek@yahoo.com)
Field Marshall	Gordie Meade (lmeade@fsu.edu)
Training Coordinator	Geoff Lawrence (k4nkc@comcast.net)

Media Managers

Webmaster	Jeff Owens (jfolso@comcast.net)
Newsletter Editor	Marcy Driscoll (robin.marcy@gmail.com)

Flight Training

Primary flight training is available by appointment on Saturdays from 10:00 AM until 2:00 PM when the weather is nice and not too breezy. Contact the Training Coordinator or one of the instructors to make an appointment:

Geoff Lawrence 850-591-6879
Jeff Owens 850-545-7482
Bill Ashbaker 850-656-5932

Jim Ogorek 850-766-2477
Mike Atkinson (Tuesday only) 850-251-2694
Troy Emmett (Large Aircraft) 770-546-6199

Field Hours

Electrics/Sailplanes	30 minutes before sunrise until 30 minutes after sunset 7 days/week
Gassers/Nitros	10 AM until 30 minutes after sunset except Sunday
	Sunday gasser/nitro flying begins at 12:00 PM
	All gassers and nitros must have a suitable muffler.

The Seminole Flyer is a publication of the Seminole Radio Control Club of Tallahassee, FL. We welcome and encourage items for publishing in The Seminole Flyer. Please submit your suggestions to robin.marcy@gmail.com in Word format. Thank you.

www.seminolerc.com