



**Circle Masters
Flying Club
Wisconsin's control line
club March 2020
volume 1 issue 3**

Announcements

Hope your projects are going well. March comes in like a lion and we should be flying soon.

Next Month's issue (April) is time sensitive will hit the air on April 1. It wouldn't be any fun to publish it before April fools day? I hope you will like it.

Don D found an old club poster. That I included

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Editors Notes

This month I will start a series on technical articles that I would like to write on technical stuff on model airplanes, building materials and the like.

This month we will cover (ha) the use of mylar lamination film, and exam table paper as a covering option.

The plan today is a tank drawing for pesky profile uniflow tanks. Uniflow tanks give constant head pressure from full to empty and usually get more consistent runs. Their construction is poorly understood, but are simple devices.

I ma including event fliers when I get them.

“.. I even learned farming, who hasn't planted a few deep in this hobby?”

Club Information

Web site www.circlemasters.com

Dues \$20.00

Flying Location

Sussex Village Park, Sussex. Wisconsin

Meeting First Saturday of the month 1pm

Location Summer (May- Oct) at the field

Location Winter Sussex Library

Comments to circlemastersflyclub@gmail.com

The hobby of all hobbies

Building airplanes is a hobby of many hobbies. Woodworking, fiberglass, metal work electronics are often needed. Hell I even learned farming, who hasn't planted a few deep in this hobby?

I learned to make blueprints from models. Building model rockets made me study calculus. Modeling taught me how to solve problems and taught me rudimentary engineering skills.

I have traveled and met people from all over the world because of his hobby. I flew control line in Singapore and the Czech Republic. The Hobby has been good to me. Hope I can be good to it.

Book Review

Harnessing the Sky --Frederick "Trap" Trapnell, the U.S. Navy's Aviation Pioneer, 1923-1952
Great book, part of history I did not know.

A pilot of calculated courage, "Trap" entered the Navy when test pilots were more like stuntmen than engineers. Airplanes had not yet come into their own as weapons of war, and they had an undeveloped role in the fleet. His vision and leadership shaped the evolution of naval aviation through its formative years and beyond.

When the threat of war in 1940 raised an alarm over the Navy's deficiency in aircraft - especially fighters - Trap was appointed to lead the Flight Test Section to direct the development of all-new Navy airplanes. He played a key role in expediting the evolution of the two superb fighters that came to dominate the air war against Japan - the Corsair and Hellcat. After World War II, Trap returned as commander of the Naval Air Test Center to lead the Navy through the challenges of transitioning to jets. Trap was not only the first US Navy pilot to fly a jet, but is also recognized for defining the operating requirements for carrier-based jet propelled aircraft.

Club Events

Club Contest-- August

EAA Kidventure Late July

Sussex Antique Tractor and Steam Engine show August

Club Fun Fly and Picnic June

Christmas Party December

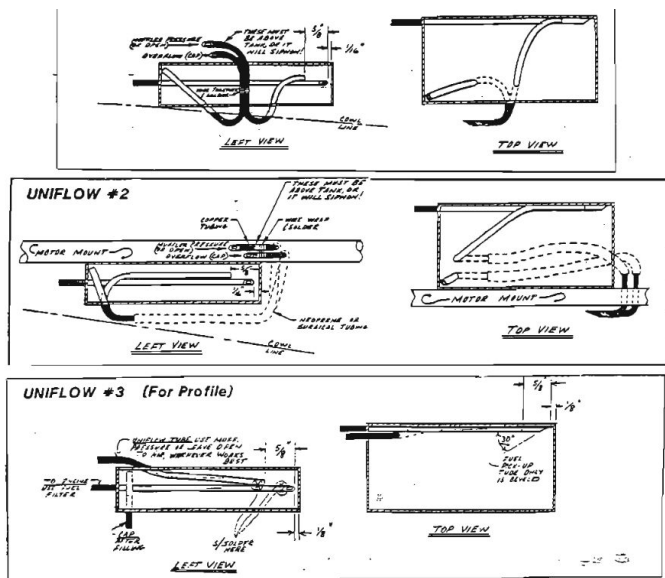
"No frill, no gimmicks . . . just something functional."



Cartoon

We all build cool airplanes. But sometimes we just need something to fly. Something we are not too attached to. This looks like a Tough Baby ala cardboard.

Plan of the month



From Stunt News Uniflow tanks

CIRCLE MASTERS FLYING CLUB

MEETING MINUTES for FEBRUARY 2020

The February meeting of the Circle Masters Flying Club was held at the Pauline Haas Public Library. The meeting was hammered to a start at 1:05 PM by Pres. Chris. He began by asking if the members (8) had received The Circle Flier newsletter and had read the minutes from the January meeting. The members present had all read the minutes. So, the minutes stood as published.

The Treasurer's Report for February was presented by Wayne. His report was approved as presented. Also: **CLUB DUES ARE OVERDUE!**

REPORTS & ANNOUNCEMENTS: Chris reported that the "Electric Slow Flyers" division of the Circle Masters Flying Club has secured a location for their indoor C/L flying. All of those who are interested are invited to join them following the meeting. If you are reading this info for the first time, then contact Chris for details. Wayne reported that the club has received the Leader Club plaque for 25 years of participation with this AMA program. Also, the application for the club charter and insurance has been filed. John Schram reported that he acquired a box of older models & accessories which he sold at the recent R/C Auction for \$65.00 then donated that amount to the club. Thanks John. Don reported on the results of the recent R/C Auction. He passed out some CMFC tri-fold literature to some interested attendees and discussed the club's activities with them. Actual results of the auction will be available at the next meeting.

OLD BUSINESS: (from new business last month) The resurrection of Tuesday Night Flights was brought up but not fully discussed due to not knowing when there will be disc golfing in the area. More info from the Village is needed.

NEW BUSINESS: John Schram reported that on the weekend of Feb. 21st, 22nd & 23rd. up at EAA, will holding Family Flight Fest. There will be many events including indoor free flight by the Bong Eagles. Don A. read a letter from the Town of Lisbon inquiring if the club would be interested in participating in the annual Easter Egg hunt. Volunteers are needed for this April 4th event, see Don.

WEB SITE BUSINESS:

OTHER BUSINESS: None.

There being no further business Chris asked for a motion to adjourn the meeting. It was quickly moved and seconded. Meeting adjourned at 2:25 PM.

SHOW & TELL: Chris's T-38 and his F6F Hellcat slow flyer.

Submitted by Wayne M. Schmidt Secretary/Treasurer

02/11/2020

March 2020

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 Swap Meet Kaukauna	2	3	4	5	6	7 Club Meeting
8 Daylight Saving Time starts	9	10 VINTAGE STUNT CHAMPIONSHIPS XXXII	11 VINTAGE STUNT CHAMPIONSHIPS XXXII	12 VINTAGE STUNT CHAMPIONSHIPS XXXII	13 VINTAGE STUNT CHAMPIONSHIPS XXXII	14 VINTAGE STUNT CHAMPIONSHIPS XXXII
15	16 St. Patrick's Day	17	18 EAA Kim Campbell A-10 Pilot	19 F2D Top Gun Phoenix	20 F2D Top Gun Phoenix	21
22 F2D Top Gun Phoenix	23	24	25	26	27	28
29	30	31				

NOTES

COME FLY WITH US
THIS SUMMER...
MEET WITH US
THIS WINTER

CIRCLEMASTERS



call for DETAILS

U-Control
FLYING
CLUB
AMA.
CHARTERED

JUNIORS
and
SENIORS
WELCOME

www.circlemasters.com

2020 Control Line Combat AMA Nationals

Muncie, Indiana July 11 – 16



NATS Registrations - <http://nats.modelaircraft.org/register/>
AMA offers \$50 entry fee waived for first time NATS entries

6 days of combat!

Help the F2D team prep for the worlds and stay
for the national championships

Sat July 11	Sun July 12	Mon July 13	Tue July 14	Wed July 15	Thu July 16
AMA Nats F2D ¹	AMA Nats F2D ¹ (cont.)	AMA Nats Event 328: F2D ² Fast	AMA Nats Event 329: Speed Limit ³	AMA Nats Event 330: ½ A ⁴	AMA Nats Event 328: Fast ⁵
Double Elim – Full F2D Rules		Double Elim First Round – Guaranteed Two Matches			

¹ F2D – current FAI rules

² F2D Fast – AMA 328 with 2010 or later F2D equipment

³ Speed Limit – AMA 329, 75mph speed limit, no airframe restrictions

⁴ 1/2A – AMA 330 on 42' lines

⁵ Fast – AMA 328 "big block" fast combat

Academy of Model Aeronautics

5161 East Memorial Drive

Muncie, Indiana 47302

www.modelaircraft.org

Volunteers Needed! Contact CD: Dave Edwards davee19348@gmail.com (612) 747 7636



2020 DAYTON NATS WARM-UP

AMA SANCTION 9646

CD: Bob Heywood Ph: 937-890-7555 E-Mail: rheywood@woh.rr.com

JUNE 13 - 14, 2020

WEGERZYN GARDENS METROPARK

1301 E. SIEBENTHALER AVE

DAYTON, OHIO 45414

1/2A, A, F2A, 21 SS, B, D, JET, 1/2A PROTO, 21 PROTO, FORMULA 40
NASS 21 PROFILE PROTO, C, SPORT JET, PERKY, ST. LOUIS FOX 35 SPEED

Sunday: No Jets until Noon

\$15 1st Event - \$5 Ea. Additional Event – Max \$30 Ea. Entrant

 @daytonmodelairplanes

www.buzzinbuzzards.weebly.com/



Lamination film for model airplanes

Dave Siegler AMA 720731

Modelers have long searched for alternate material for model construction. This is especially true for covering materials. At some point, advanced mylar and polyester materials were adopted and adapted specifically for modeling use. The material came from many industries like sign making, document lamination and industrial covering. Model airplanes were big business, but tiny compared to the other use of this material. Combat builders used a lot of FasCal to cover and repair airplanes. Polyspan has been adopted from the fabric industry. Heavier coverings like Koverall and Oracover came from full scale applications.

Monokote, Solar Film and many others really made life better for many modelers. In this house, brushing or spraying dope is an outdoor activity, and that limits its use in the winter months. Dope is also really expensive now.

Monokote and all their clones are wonderful, but pose some problems.

- 1) Hobby films are expensive.
- 2) Pigments and glues used in Hobby Films are heavy and not suitable for ultra light structures
- 3) Sometimes glueless and paintless options are needed
- 4) Hobby films need high heat and won't work on foam structures
- 5) Hobby films have become less available recently as the industry continues to shrink and hobby shops disappear. New Monokote isn't a nice as the older stuff and Solarfilm (my favorite) is no longer in business

Roll laminators are in wide use and use low cost rolled heat activated adhesives, heat shrinkable polyester covering. Hey that sounds like just what we need!

You can get it from many places like office supply stores, amazon or ebay, and in many thicknesses. Look for material that is .7 to 1.5 mills and is clear. They come in long rolls 500 feet typically. And widths from 8 inches to 36. They often come in pairs. Look for the 22" to 24" wide stuff

Phil Cartier (google core house foam wings) sells his awesome SLC film cheap. He will sell it by the foot and is 1mill. Phil is a polymer chemist and claims this stuff is the toughest stuff he could find. SLC is a populate substrate for tissue and polyspan.



In the lamination business, they often throw the last 100 feet or so to prevent changing rolls mid job. You may be able to score some cheap or free. I got some from the old milwaukee map store.



You apply this stuff just like normal low heat iron on film. It is thinner, so you have to be careful with too much heat. Heat is a little lower than monokote. It does not have a backing. Keeping the surface dust free is important as the glue is minimal. The film is frosted in color till you heat is and changes to crystal clear.

It works well around wing tips, but doesnt stretch like hobby film. I do keep some balsa rite handy to put around the nose and other high stress points as the glue is thinner.

It can be painted after scuffing it up with a scotch bright pad.

Some combat guys lightly mist the glue side with paint before

applying it. It is often used under polyspan, silk or silk span as a way to quickly fill the weave. I use it over foam and on open bays on smaller airplanes. It works well.

Dave

