

FlightLine

A Monthly Publication of Collins Model Aviators February 1999



Reminders:

- Next CMA meeting is Thursday February 4th
- The next Build Session is Thursday February 11th
- February is Swap Meet Month
Area swap meets are the 7th, 14th & 28th

Featured Photo:

This month's featured photo is Dan Cooley's Tiger 60. See page 2 for Dan's article on his Tiger and his current building projects.

James H. Doty, FlightLine Editor →

📖 In This Issue:

Featured Photo:	1
Dan's Models	2
President's Column.....	3
CMA Meeting Minutes.....	4
Loening OA-1A.....	5
Heads Up, CMA Activities.....	8
Swap Meet Flyers.....	9
CMA Future Events Survey.....	10
Registration Form.....	11

CMA Web Page Addresses:

<http://bbs.cacd.rockwell.com/data/clubs/cma/>
<http://members.aol.com/cmaflightl>



Collins Model Aviators
Academy of Model Aeronautics
Charter Club #3257



plane is different than landing an LT-40. I'll have to work on that this summer.

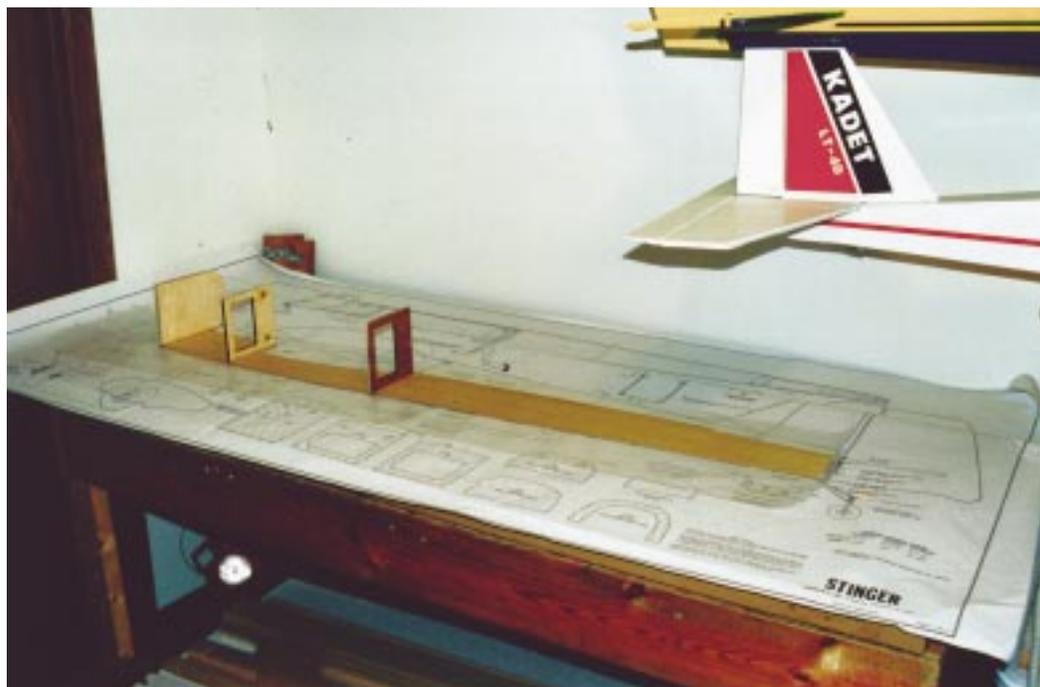
The picture at the top of this column shows what I have done to date on the .40 sized Mustang I am building. I am just finishing up the upper cowl, and will then add the scoop on the bottom of the wing. Next I'll glue on the tailfeathers,

Dan's Models

by Dan Cooley

If you went to the beauty contest last year (I just couldn't resist mentioning the beauty contest), you will remember the airplane in the cover photo, it's my Tiger 60, with an OS .61 FX on the nose. It flies very well, thank you, and can roll at a rather fast rate with the control throws cranked up, as Rich found while wringing it out last summer. It still flies great with more reasonable control throws, and also does nice stall turns, one of my favorite maneuvers. I found it to be very enjoyable to fly, and you'll likely see it out there this summer at the field, wherever that will be. As some of you will remember, this plane landed in the corn once last summer, but was not damaged. I still need to get used to flying it deadstick, and landing a very neutral, maneuverable

finish the ailerons and wingtips, and then its time for radio gear and covering. This plane should help me get used to flying a taildragger, and also it should be somewhat aerobic, so I'll get used to flying a responsive plane. Power for this plane will be a Super Tigre .45.



Late last summer, I decided to go giant scale and purchased a Giant Scale Stinger combo from Tower Hobbies. The engine will be a 41 cc gas motor from U.S. Engines, wingspan is 84". The last picture

shows the beginnings of what will become the fuselage. There aren't many pieces in this kit, so building should go pretty fast. I already have the tailfeathers built up and hinged. The wing is foam, so I listened very carefully to Frank's demo on foam wings last month. I had intended to build the wing in two pieces so that I can take the wing apart, but now think I will just build it in one piece for simplicity. The wing won't fit into my car that way, but I'll take care of that problem pretty soon... Plan on seeing the Stinger out at the field this summer!

Dan Cooley, CMA Vice President →



The President's Column

by Frank Gutierrez

We had a good turnout at the last meeting. A number of items were discussed that would help the club function and grow. The membership is ever increasing and many of last year's new members are working on one or more projects over the winter. It looks like this year's airplane beauty contest will have a large turnout! The more planes the better. If my kids and I get all our projects accomplished, we are looking at three or four planes to show up from our family. Remember that we will have the 106 auditorium, which should give us plenty of room to show our planes. Prizes will be awarded to winners in several categories. If you have any special building items, flight line gear, old engines or something to display, you are welcome to bring that as well to show. Our displays will be available for all Rockwell Collins employees to see. This will also serve as a promotion for gaining interest in our club.

FlightLine

Please get pictures of your projects to me by April 1st, for inclusion in the bulletin board display for April. Send to Frank Gutierrez, mail stop 108-166

Many of the club members stayed for the foam cutting demo after the January meeting. A special thanks to Don Rosendale, from the Skyhawks club, for taking his time to assist in the demonstration and also Mark Woytassek, for contributing to the foam cutting instructional guide. This year is the first time I experienced cutting and building with foam. It has always been a mystery to me in the past and I felt very comfortable working with wood. I certainly have changed my thoughts about using foam in modeling and it definitely has its place in the hobby. Several of our members this year have followed my lead and will be flying airplanes built with foam wings that were cut by themselves or by me. Wings are the most common application, but turtle decks, fuselage halves, and other parts of the plane where you would like a uniform curved surface and or light structure, is also good. When I figure out how to do the vacuum-bagging thing, I will set up another demo. Remember that the build sessions are a good place to pick up hints and tips on building techniques.

If you missed it last time, here it is again. Don't forget to get your CMA renewal in early!

The CMA logo and member card is sporting a new look for 1999. The CMA cards are closer to credit card size this year and will fit the wallet better. All current CMA members will be issued a member card. If you are not an AMA registered member



for 1999, the card will not show your AMA number. Remember that you must be a current AMA member to fly at the club field. Upon proof of AMA membership, a new card will be made up with your number and date of expiration on it. A list will be passed out at the next few meetings for members to update any information. The frequency channels will be updated and posted on the web page.

As the new president of the CMA club I feel it is my duty to get to know each of the members. I joined the club at the beginning of last years flying season and know a little over half of the members through flight instructing. I will try my best to introduce myself to people I don't know and I hope our new and old members will do the same. When we are out at the field, it is a comfort knowing with whom you are flying with.

Have a safe building month and remember to cut away from your fingers. The cost of repair could be significant enough pay for several models, radios or engines.

Frank Gutierrez, CMA President →

The plane in the picture at the top of the article is a Piper Arrow IV. The picture was taken of me during a formation flight with another Arrow IV on a round robin flight from Dayton OH to Columbus OH. A standard 50 mm lens was used, so I will let you guess how close I was when the picture was taken. If you look close you might see my smile. I am currently designing an R/C model of the same plane. Most of the plane will be cut from foam and will have approximately a 75" to 80" wing span. I hope to have it ready for next years flying.

Frank

CMA Meeting Minutes

By Doug Emerson

January 7, 1999 Minutes

Frank Gutierrez called the meeting to order. There were 20 members and one guest in attendance. The minutes were approved as read. Doug Emerson gave the treasury report. There is \$820 in the treasury. This includes the Rockwell Collins sponsorship and 16 paid up members for 1999.

Old Business:

Doug Emerson completed his action item and created a new membership form. Copies of the form were made available to the attendees. Steve Plantenberg will post an electronic copy of the form on the CMA web page. Jim Doty will also include it in the next few issues of FlightLine.

Frank reported that he has scheduled the CMA Airplane Beauty Contest for April 20 in the 106 auditorium next to the cafeteria from 10 AM to 2 PM. There is additional information on this in The President's Column in this month's FlightLine.

There were discussions on progress in securing a new flying field. Another possibility was eliminated. Crist Rigotti and Rich Dean indicated they would check out the possibility of a site west of Ellis Park. In addition, Duane Smith and Rich Dean will put together a flyer for posting in co-ops and other places that local farmers would potentially see.

Frank emphasized that all members need to continue to help in finding a flying site.

New Business:

Frank asked that all members review the CMA Bylaws and bring suggested changes to the next meeting or let him know ahead of time. This also applies to the field rules in the student pilot manual. Frank also suggested that the voice bulletin board probably needs updating. He and Rich Dean will check this out.

Frank asked the members to consider volunteering for a new position he thought we should create. The new position would be a "Program Coordinator" that would help the current officers organize programs/activities in the future. Later on in the meeting he distributed a sheet of example activities and asked the membership to review them, indicate which ones interest them and to suggest other possibilities.

Frank indicted a theme he would like to promote this year is “members helping members.” An immediate way to start this effort would be for members to help our Flight Line editor, Jim Doty by getting him material for the newsletter. He suggested that members provide pictures or articles about building activity, flying activity, etc. He emphasized that it doesn’t have to be information on brand new planes. Dan Cooley volunteered to provide some information for next month’s issue. Crist Rigotti volunteered for the April issue.

soon. Ten more membership applications were turned in after the meeting. This makes a total of 23 members and 7 provisional members that are currently signed-up.

Doug Emerson announced that he will retire on January 22, 1999. He will continue on as Secretary/Treasurer. However, he will not be able to submit expense reports to Employee Services when he is retired. Dan Cooley will assume this duty.

Doug Emerson, CMA Secretary➔

Frank encouraged members to sign-up and get their CMA membership active. Forms are available from Doug Emerson and will be posted on the web site



Aviation History

LOENING OA-1A

From the USAF Museum web page



Grover Loening
 9/12/1888
 to
 2/29/1976

In 1923, Grover Loening designed a unique observation amphibian aircraft powered by an inverted Liberty engine. First designated the COA-1, it combined features of both a landplane and



seaplane by merging the fuselage and hull into a single structure, eliminating the hanging floats and the elevated engine of a seaplane. Between 1924 and 1928, the Army ordered 45 OA-1s primarily for use in the Hawaiian and Phillipine Islands and regions with numerous lakes and large rivers. Of these, 15 were OA-1As.

The "San Francisco" on display was one of five OA-1As which on Dec. 21, 1926 embarked from San Antonio, Texas on a 22,000-mile Pan American Good Will tour of 25 Central and South American countries which lasted until May 2, 1927. Its pilots were Capt Ira C. Eaker and Lt. Muir S. Fairchild. The MacKay Trophy and Distinguished Flying Cross were awarded to all the fliers who made the flight.



Loening C-4C Cabin Amphibian. Note the similarity of the tail design to the OA-1A



Loening PA-1 (above), and PW2A (below) are two more examples of Loening Aircraft



This OA-1A is on loan from the National Air and Space Museum of the Smithsonian Institution.

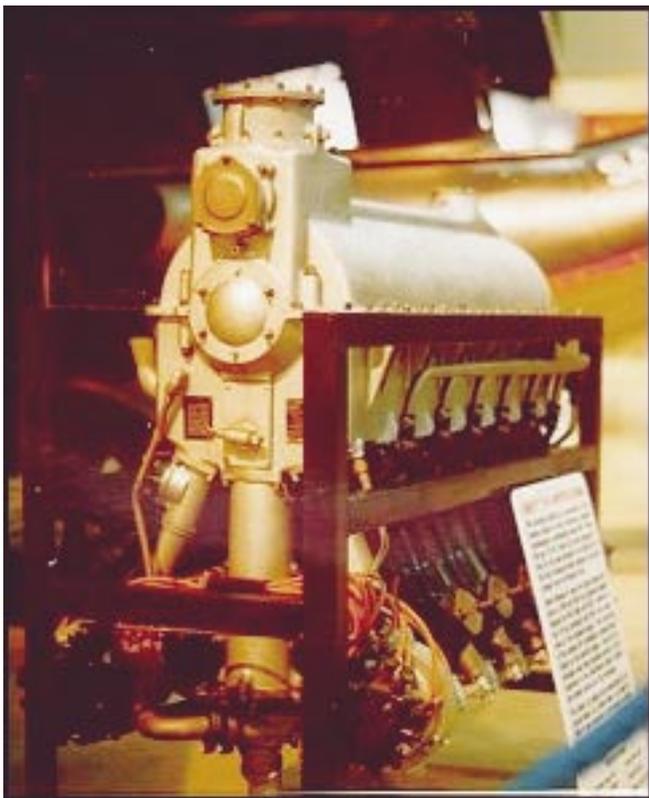


SPECIFICATIONS

Span: 45 ft.
Length: 45 ft. 7 in.
Height: 12 ft. 1 in.
Weight: 5,000 lbs. maximum
Armament: (for standard OA-1A) One forward-firing and two flexible .30-caliber machine guns.
Engine: Liberty V-1650 of 425 hp.
Cost: \$21,000
Serial number: 26-431

PERFORMANCE

Maximum speed: 122 mph.
Cruising speed: 90 mph.
Range: 750 miles
Service Ceiling: 13,500 ft.



Liberty 12-A Inverted Engine

Liberty 12-A Inverted Engine: The inverted Liberty is a conversion of the famous Liberty 12, one of America's greatest technological contributions during WWI. During the war, 20,478 Liberty 12s were produced in the U.S. and used primarily in U.S.-built D.H.4s, the only American-made airplane to get into combat over the Western Front.

Initial attempts to invert the Liberty engine took place in 1918 and 1919, but technical problems delayed the first flight until 1923. Inverted Liberty 12-As, produced until 1926, were conversions of the standard engine. Most were used in the Loening OA-1 amphibians, designed specifically for the inverted engine. Among the advantages were high propeller position (for hull clearance in the amphibian), better visibility, and easier access for the mechanics.

The Liberty on display was manufactured by the Lincoln Motor Co., Detroit, Mich., on October 18, 1918. It was converted to the inverted configuration by Allison Engineering Co., Indianapolis, Ind., on November 16, 1926. It represents the engine used on the Loening amphibian.

SPECIFICATIONS

Model: Inverted Liberty 12-A (V-1650)
Type: 12-cylinder, liquid-cooled, inverted-Vee
Displacement: 1,650 cu.in.
Rated RPM: 1,700
Rated HP: 425
Original Cost: \$2,500
Conversion Cost: \$1,472

Heads Up, CMA Activities

Thursday, Feb 4, 5:00 pm — Club Meeting
Thursday, Feb 11, 6-9 pm — Build Session #5
Friday, Feb 19, 5:00 pm — FlightLine Deadline
Thursday, Mar 4, 5:00 pm — Club Meeting
Thursday, Mar 11, 6-9 pm — Build Session #4
Friday, Mar 19, 5:00 pm — FlightLine Deadline

Note: Meetings and build sessions are held in the 35th street N.E. Facility (main plant) Cafeteria building 140.



Send your input for the CMA Web Page to:

Steve Plantenberg x5-9625
scplante@cacd.rockwell.com

For an AMA membership application:

<http://modelaircraft.org/Mem/Memapp.htm>

Build Sessions

Build Sessions are the second Thursday of each month in the Main Plant Cafeteria from 6 to 9 pm

1998 CMA Staff

President: Frank Gutierrez.....x5-0969
Vice President: Dan Cooleyx5-0401
Secretary/Treasurer: Doug Emersonx5-2356
FlightLine Editor: Jim Dotyx5-2931
Web Page Editor: Steve Plantenberg ...x5-9625

Senior Flight Instructors and Test Pilots for first flights of new airplanes:

Rich Dean
Frank Gutierrez
Mark Woytassek

Flight Instructors in training:

Irv Anderson

✉ Send your input for FlightLine to:

James H. Doty
MS 124-111
x5-2931
jhdoty@collins.rockwell.com



For membership information:

Contact: Doug Emerson
CMA Secretary/Treasurer
MS 153-260
x 5-2356
daemerso@collins.rockwell.com

DAVENPORT RADIO CONTROL SOCIETY



4TH ANNUAL

SWAP MEET

Iowa National Guard Hanger

Located at the

Davenport Municipal Airport

I-80 to US Highway 61 North. Exit 124 West approximately one mile to Harrison Street, then North one half mile to the Hanger

February 14, 1999

10 A.M. to 3 P.M.

Set-up time 8:30 A.M.

Tables \$8.00

Reservations requested!
(Last year sold out!)

Admission \$2.00

For further information or reservations call
Bill Whetstine (319) 289-4329

NINTH ANNUAL
CEDAR RAPIDS SKYHAWKS
EASTERN IOWA

R/C SWAP MEET



Palo Community Center

1006 1st Street

Palo, Iowa

Sunday, February 28, 1999

10:00 AM to 2:00 PM

\$2.00 Admission



Table Rental

\$1000 Reserved in advance

\$2000 at the door

\$5.00 Floor Space for each table

No Sales Before 10:00 a.m.

For table reservations contact:

Ryle Trivedi

2127 50th Avenue SW

Cedar Rapids, Iowa 52404

319-364-2229

Reservations from 1:00 p.m. to 5:00 p.m. (State from 8:00 a.m. to 5:00 p.m.)
Reservations from 10:00 a.m. to 5:00 p.m. (State from 8:00 a.m. to 5:00 p.m.)
Palo, Iowa, is a small town with a rich history and a beautiful view of the Mississippi River. The Community Center will be open from 10:00 a.m. to 2:00 p.m.

RC SWAP MEET RC

Sunday February 7th

Doors Open at 9:30

Selling Starts at 10:00 until 3:00

Located at the UAW30 Main Hall--2615 Washington Waterloo, IA

Sponsored by the Starbuck RC Club

Swap Meet
30 Plus Tables

Static Display
50 Plus Planes

Food and Drink will be available:

Admission: Adults \$2.00
Students: \$1.00
8 Foot Tables cost for \$10.00

For more information or to reserve a table contact:

Donald Gibson
1001 W. 1st Street
Cedar Falls, IA 50613
319-266-2040

Laverne Patric
R02
Parkersburg, IA 50804
319-663-0611

Visit the Starbuck's Website at <http://www.iherg.org> and sign up for your table today!



Talk to the Experts!
Interested in getting started? Or have a problem you need an answer for? It's all here at the BHRCP Swap Meet.

Buy-Sell-Trade-Show
Tell Stories-Brag?
Bring your friends for a FUN DAY!

CMA Future Event Survey

This questionnaire is being sent out to get a feel of what kinds of events CMA could hold in coming years. Currently we have one Fun Fly event in the late summer. Do we need to hold more flying events? If so what kind? Even if you are not quite ready for participating in these events, you could help run them and join in on the flying in the future. An event could be a one time event or a once a month accumulative score to be totaled at the end of the summer. Also these events can be competitive or just for fun. This is not a complete list so feel free to add other options. Please fill out and send to Rich Dean 124-115, or bring to next CMA meeting. Thanks!

EVENT	INTERESTED	NOT INTERESTED
Small plane fly-in .26 sized engines and smaller. -----	_____	_____
Fun Scale Building is 5% of score, flying is 95% of score. -----	_____	_____
Old Timer One to three channel cool cruisers from 30-40 years ago -----	_____	_____
Scale Building is 50% of score, flying is 50% of score. -----	_____	_____
Float Fly Get together for some water flying. -----	_____	_____
Electric fly-in Electric powered only. -----	_____	_____
Pattern Learn and fly novice pattern. -----	_____	_____
Combat Cut the streamer of the Hun in the sun. -----	_____	_____
One Design contest(s) Everyone builds the same plane, then it is used in various contests. -----	_____	_____
.049 Fly-In Engines .09 and smaller allowed -----	_____	_____
Other ideas.....		

SUPPLEMENTAL ACTIVITY REGISTRATION FORM

To be used for participants not listed on Activity Roster Form

Participants Name _____ Ext. _____ Mail Drop _____

Home Address: _____

Home Phone: _____

Activity Collins Model Aviators Participation Fee: \$20.00

AMA Number: _____ Cash/Check, Check# _____

AMA Membership Valid through Year: _____ (Circle One)

Radio Channels Used: _____

**Make check payable to
"Rockwell"**

Activity Coordinator: **Frank Gutierrez**
108-166

*Indicate Status _____
(E=Employee, S=Spouse, R=Retiree, C=Contract)

Division: _____

RELEASE;

I understand that the above named activity is sponsored for recreational purposes only. I also understand the nature of the activity including its possible risks and voluntarily register for participation.

I hereby release Rockwell International Corporation from any claims, demands or damages because of injury or death, other than customary and reasonable medical expenses under the existing company medical plan, resulting in any way from participation in this activity.

Signature

Date

**Subsidized participants are defined as current employees, retired employees, and spouses of the above. Contracted employees must pay an amount equivalent to the company's per person subsidy plus individual fee established for this activity. Inclusion of non-subsidized participants will be subject to each individual program's concurrence.

FOR OFFICE USE ONLY

Office Signature _____ Date _____

Subsidized Participant: @ \$ _____ Non-Subsidized Part.: @\$ _____

Invoice # _____

0103a/0003a

1999 CMA Membership

<u>NAME</u>	<u>M/S</u>
Irvin Anderson	108-103
Geoffrey Barrance	108-166
☛ Alan Bechtold	124-224
Larry Black	155-100
☛ Bob Buschette.....	108-260
☛ Kyle Chapman.....	124-111
☛ Brian Collins.....	192-111
☛ Dan Cooley	124-111
Rich Dean	124-115
☛ Ed DeRuiter.....	124-111
Jim Doty	124-111
☛ Mike Eastman.....	106-183
Doug Emerson	153-260
☛ Scott Emerson.....	105-167
Frank Gutierrez III	108-166
Jamie Johnson	124-217
☛ Richard Kelly	124-115
Gregg Lind.....	108-166

John Crilley
2540 2nd Ave.
Marion, IA 52302

Jack Morgan
1209 Raney St.
Hiawatha, IA 52233

Basil Tilley
1028 Regent St. N.E.
Cedar Rapids, IA 52402

Gary Owen
PO Box 244
Hiawatha, IA 52233

<u>NAME</u>	<u>M/S</u>
John Michael.....	108-166
☛ Patrick Neu.....	108-136
Jeff Niemeier.....	106-186
Marion Payne Jr.	137-146
Steve Plantenberg	137-152
Crist Rigotti.....	164-100
Duane Smith	108-135
☛ David Sneitzer	124-115
Van Snyder	108-104
Alain Suarez	108-166
☛ Steve Timm.....	105-190
☛ Floyd Van Auken.....	107-140
Tom Wachtel.....	106-186
Charles Ward	139-142
☛ Bryan Wesner.....	153-260
Mark Woytassek	137-137
☛ Members who have not renewed for 1999	

Academy of Model Aeronautics
5151 E. Memorial Drive
Muncie, IN 47302

Box-Kar Hobbies
3661B 1st Ave. S.E.
Cedar Rapids, IA 52402

H & J Hobbies
Marion Heights Center
Suite 1185 Grand Ave.
Marion, IA 52302

Hobbytown
2737 16th Ave. S.W.
Cedar Rapids, IA 52404