



HEADWIND

The Monthly Newsletter of the
Tokay Radio Control Modelers
Lodi, California



AMA District 10

FOUNDED 1971 AMA CHARTERED CLUB 1251 WWW.TOKAYRCMODELERS.COM

Next Meeting:
Wednesday
January 4th, 2017

2017 TRCM Officers:

President: Bob Kellar
president@tokayrcmodelers.com

Vice-President: Randy Laney
Vice-president@tokayrcmodelers.com

Secretary: Don Brown
secretary@tokayrcmodelers.com

Treasurer: Robert Stanley
treasurer@tokayrcmodelers.com

Safety Coordinator: Dick Wareham
safety@tokayrcmodelers.com

Newsletter: Mark Huntley
headwind@tokayrcmodelers.com

Webmaster: Neil Gates
webmaster@tokayrcmodelers.com

TRCM Events 2017

Special Note:

Members, Rob will have the 2017 TRCM membership cards available at the next meeting onward. A member can receive theirs once dues are paid and AMA is confirmed through 2017

Editor's Message Mark Huntley

I hope that everyone had a wonderful and joyful Christmas. And if you didn't get a lump of coal in your stocking, hope that you received something fun and flyable...may the New Year bring new happiness, hope and prosperity to you and your families.

While Bob is away on vacation, he asked that I come up with something to write about related to both aviation and RC airplanes. Since then, I've had several conversations with club members about why an aircraft likes to turn "left". So, I decided to write about "why left" ?

Why left?

Why do Americans sit on the left side of the car to drive? And, why do pilots sit on the left side of the cockpit to fly? We may think the answer would be for the same reason, but you may be surprised in the answers to both. If you continue to read this, I'll lead you to why our RC airplane have a tendency to turn left as well. Intrigued yet? Good. As for Americans driving on the right side of the road and sit in our cars on the left side to drive was adapted from the horse carriage days.





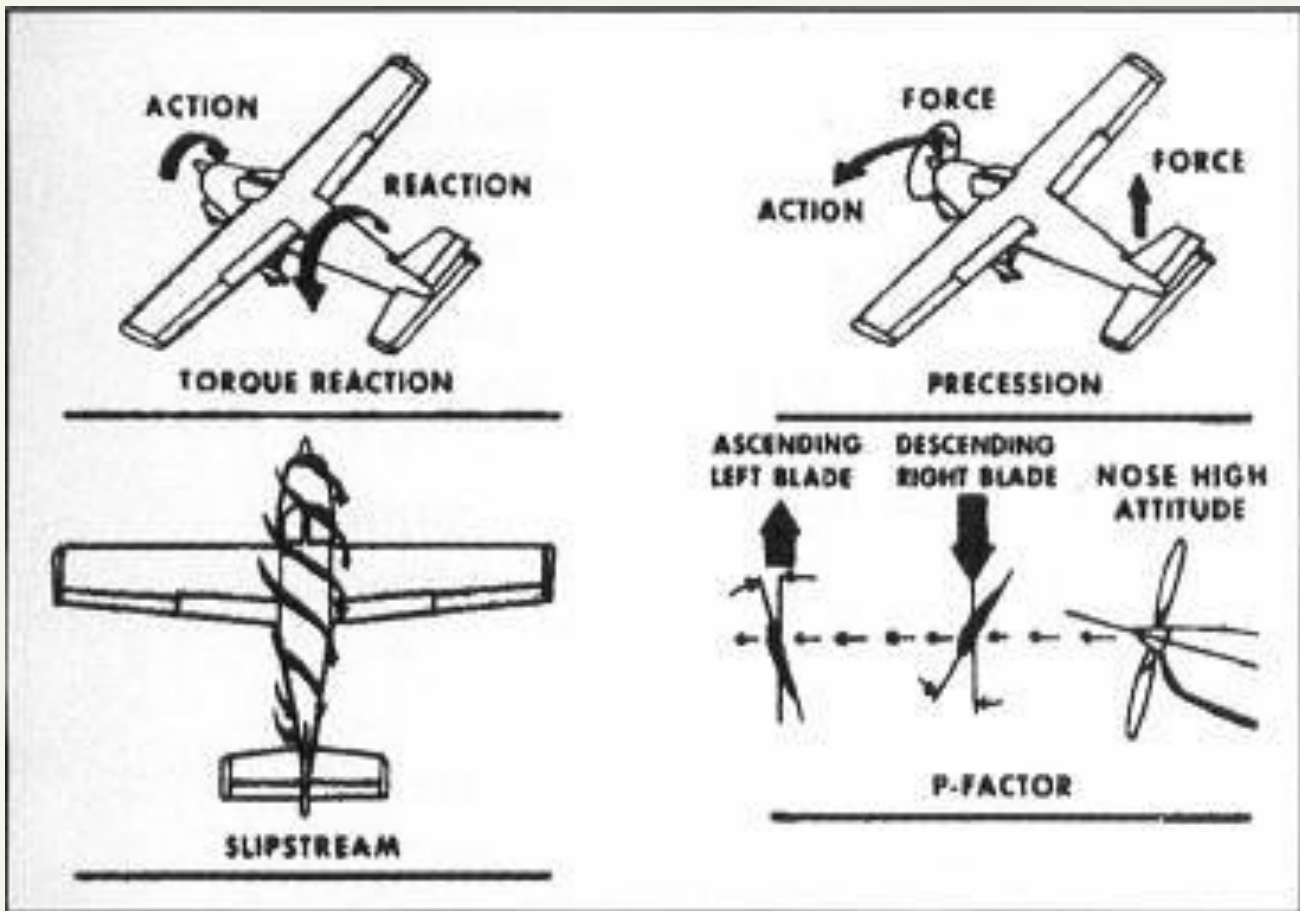
As most people are right handed and will do most things with their right hand and arm. In this case, a driver of a horse drawn carriage will use his whip in his right hand and sit to the left to be able to crack the whip over the horses equally. Additionally, the horseman would also be able to watch his carriage wheels when passing other carriages on the trail for clearance. When we moved to motorized carriages, the concept continued – except for the whips and horses. If you have read this far, you got your first answer.



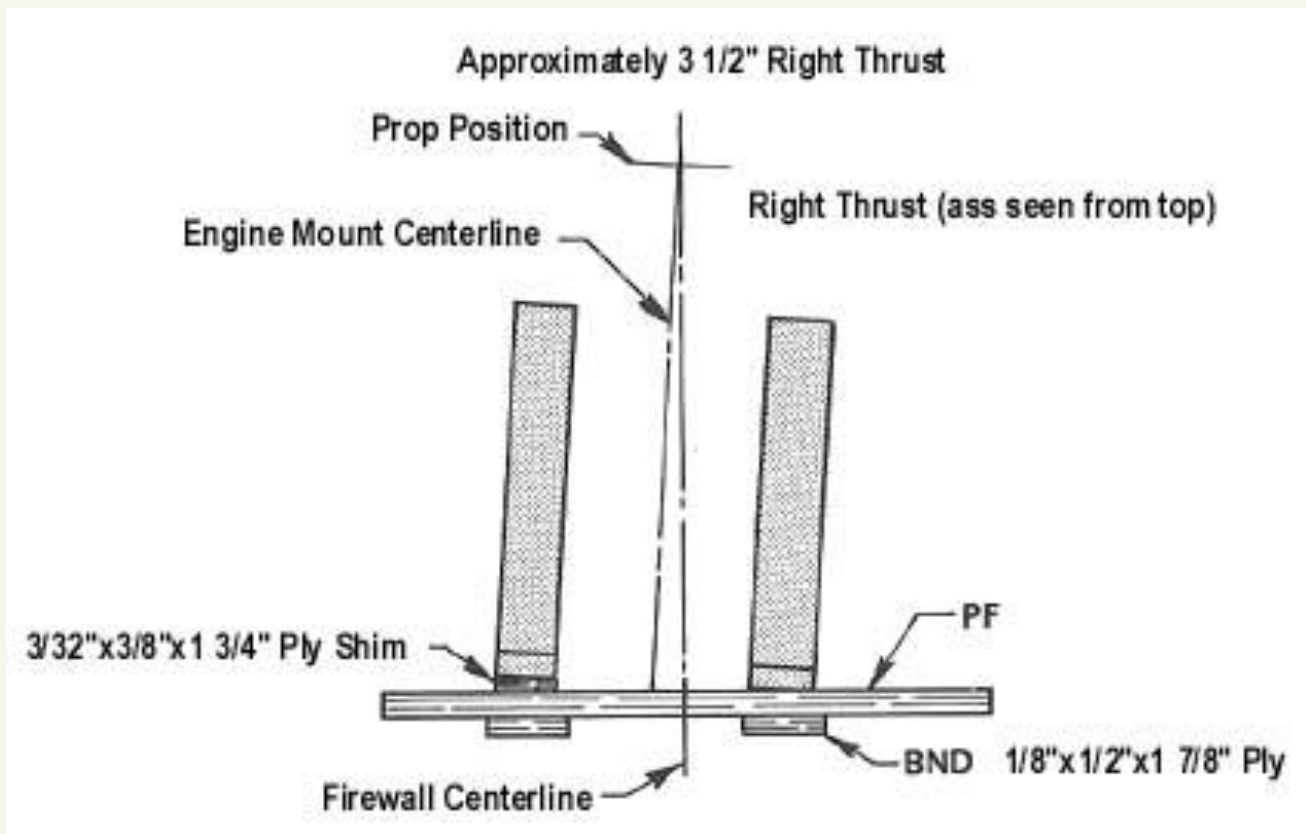
Now, why do some countries drive on the wrong side of the road? They were slow to adapt as swords were carried on the body and while riding their horse, horseman would ride of the left side of the trail to be able to draw and strike an approaching rider on the trail with their dominate right arm and be able to draw their sword and quickly if they had to.



Let's move on the airplanes now. Did you know that there are several reasons why an airplane wants to turn left naturally? There is torque, spiral slipstream and something called P-factor. There is one other reason...back in the beginning of aviation, there were aircraft that used engines that had their cylinders rotate around the crank rather than the cranks and pistons moving instead. Moving the cylinders around was a lot of mass spinning and created gyroscopic forces. Basically, gyroscopic force moves 90 degrees ahead and in the same direction applied. What that means to an airplane is that anytime you changed pitch, the plane would want to turn left (opposite of the force applied). In combat, and you were approaching an enemy aircraft, the quickest way to turn around was to turn left because the airplane wants to turn that way naturally and does so very quickly without much pilot effort. The pilot sat on the left side because he also wanted to keep his enemy in sight during the combat turn. The concept of the pilot sitting on the left side still continues from this era, even in the countries that still drive their cars of the wrong side. I wonder if they still carry swords?



What about those other forces? In RC airplanes, like modern aircraft, they too want to turn left even though we don't have spinning cylinders anymore. Torque is the more obvious force and easiest to understand. The prop is rotating right (from the pilot's perspective) and the opposing force is a left turning tendency. The next one is spiral-slipstream. The prop is literally screwing its way through the air. The resulting airstream is spiraling around the airplane in flight resulting in a left turning tendency. The last one is P-factor which stands for prop-factor. When we change pitch in our aircraft, the ascending blade has less angle to relative wind that the descending blade. This will occur until the plane is flying straight again to relative wind. This changing pitch also causes more thrust to develop from the descending blade causing the plane to want to turn left.



With all these left turning tendencies, we make some corrections to oppose these forces. The one we normally use on RC aircraft is to offset the engine thrust line by 2 or more degrees right. This is usually done by the manufacture by building an offset in the engine mount/firewall. On glow engines, we would install a couple of washers/shims behind the engine mount on the left side. The vertical stabilizer may have some slight offset as well depending on model manufacture and design.

As a RC pilot, you're asking yourself, what can I do about all this left turning stuff. Learn to use your rudder by applying right input during climbs, and while adding power to the engine during takeoff. This is more noticeable on tail wheel aircraft during the first part of the takeoff roll.

For those learning IMAC or basic aerobatics, the beginning pilot will usually struggle with correct rudder input during changing directions and orientations. I'll give you a little hint....add right rudder first as its most likely the correct input that you'll need if you're not sure.

Mark Huntley

Survey for Sweetheart's Dinner

Survey for when to have the Sweetheart's Dinner:

At the meeting in December, the members present agreed to check into having the Sweetheart's Dinner at the Wow Museum (at the suggestion of Don Brown). The large conference room at the Museum will be used for the dinner and a catering service will be used to provide the food. This is being done in an attempt to have a larger number of our members participate in the honoring of our significant others who support us or at least put up with us the whole year. The Museum will be available to the members prior to and after dinner so that we might explore their many exhibits. This should create a fun and interesting environment for the event.

Don Brown has found that February 11, 2017, Saturday night, the date agreed on at the meeting, is not available at the WOW Museum to hold our annual dinner. The available nights are February 10, 2017, a Friday night, and February 4, 2017, a Saturday night. We need to know which night would be the best for the members to attend.

Also, we need to have an idea about the per person cost for the food that would be agreeable to the members. The club is planning to provide some funds for the food costs but we want to encourage as many members as possible to attend and knowing what level of cost is acceptable will help us in our planning.

Please respond to my personal e-mail with the following preferences:

Friday, February 10 OR Saturday, February 4

Per person cost willing to pay: \$5, \$10, \$15, \$20 (food service will be buffet style, tri-tip and/or chicken, vegetable, starch, bread and salad.) Dessert will probably be Cheese Cake or Pie with ice cream provided by the club.

We need to notify the WOW Museum ASAP to reserve the date so please respond by Tuesday, 12/13/16.

I will total the results and the decision regarding the date will be e-mailed to the members. Thanks for your help in this matter. We want to have as many members as possible attend what promises to be a fun and food filled evening!

Thank you all for responding. The results are as follows:

Saturday night 2/4/17 had 6 votes

Friday night 2/10/17 had 4 votes

Either night had 5 votes

Several of the responders can only come on Saturday night due to work. Things like working the swing shift or working out of town with a commute were mentioned. Based on these results, I have chosen February 4th, 2017 for the Sweetheart's Dinner. We will proceed with the reservation and getting the catering set up. I think that the WOW Museum features will really add to our enjoyment of the evening. We are planning to reward our "significant others" with some take home gifts so set aside that date now so you and your partner can share the enjoyment of the evening.

Regarding cost, most responders were at the \$15 -\$20 level. This is a very reasonable level to have a nice catered meal served. Stay tuned as we will keep you informed as we get things confirmed.

Bob



TRCM MEETING MINUTES

Meeting was held on December 7, 2016 at 6:30 pm at the Lodi Public Library.

I. Call to Order: President **Bob Kellar**, 6:30 pm

II. Announcements from the Floor: **Dennis Campbell** announced that **Don Brown** started a Facebook Messenger group called "Active TRCM Pilots." It is for any club member that has Facebook and uses messenger! We have 12 members in the group so far and it is just getting started. It is a place where members can post things like, when they are planning on going flying so that you aren't the only one at the field that day. Or maybe share some pictures of the latest airplane project you are working on! **Don Brown** said that he will send the newsletter editor, **Mark Huntley**, the information on how to get started on joining this group, so he can put it in the newsletter. **Rob Stanley** said that he is tasked with purchasing raffle prizes for the next three meetings and that he is looking for member input as to what they would like to have as prizes. **Bob Kellar** announced that **Bill Churchill** got the weed killer put down today!

III. Visitors and New Members: We had 20 members present and no guest this month.

IV. Officers Reports:

President: **Bob Kellar** was present.

Vice-President: **Randy Laney** was present.

Secretary: **Dennis Campbell** stated that there was some question about how many years the club has been hosting our annual Turkey Shoot. He emailed the founding father of TRCM, **Lanny Shorts**, because he figured that he would be the one that could best answer that question. Long story short, the answer was somewhere between 40 and 43 years. So we will just go with 40 years like it says on our website. Thank you Lanny for your input! **Dennis** went on to say that it has been an honor to be your club secretary for the past two years and that it has been a pleasure to work with the other officers. He said that feels comfortable in leaving his post in the good hands of **Don Brown**!

Treasurer's Report: **Robert Stanley** gave his monthly treasure's report.

Safety Coordinator: **John Lett** said that he lost his 40% Decathlon! He said that what he thinks happened was, he did a snap roll and the receiver battery came unplugged and the plane flew away. He searched the area with a full scale airplane and found the wreckage. Very sad story! A lesson to everybody to make sure that you have your airplane batteries properly secured in the airplane.

News Letter Editor: **Mark Huntley** was absent due to his job. It was a tough assignment. He had to fly his company airplane to Palm Springs that day! He did email **Bob Kellar** stating that **Randy Laney** was the winner of the Name the Plane Contest and second was **Garrett Morrison**.

Webmaster: **Neil Gates** stated that some club members are having problems sending email to the club officers. He said that he is going to be working with our club website host to resolve that problem.

Field Marshall: **Mitch Biddle**: It was announced that the new field marshal, **Mike Mancebo** has the keys etc. and that **Mitch** will be training **Mike** on his new duties.

V. Old Business:

1. **Bob Kellar** said that **Bill Churchill** got the ground sterilizer put down today in the area east of our current pit area in preparation for extending the pit area that direction. He said that once the weeds have died **Mike Mancebo** and **Greg Hennefer** will "knock them down."

2. **Bob Kellar** spoke about the Sweet Heart Dinner plans and a discussion followed. **Greg Hennefer** said that there is a nice room at the Grape Festival grounds that we can use. The food could be catered in for about \$20.00/ person. **Don Brown** said that he has spoken to **Sally** at the WOW Museum and she said that they would like to host our party for free as a showing of thanks for our work on the Flight Simulator project that we did there last year. **Don** is going to check and see what kind of

accommodations they have there and report back to us at the next meeting. Don is to get a firm proposal from her and he will check with local caterers and bring back information regarding that at next month's meeting. Nancy Hennefer and Rosemary Kellar have been volunteered to find some nice raffle prizes for the wife's/significant others. Possible date that we are looking at is February 11th and a start time of 6:00 pm and food served at 6:30 pm. Bob stated that he would like to see the club pick up part of the cost of the meal in hopes of a better turnout than we have had in the past.

3. A motion to close nominations for the 2017 club officers was made by Don Brown and seconded by Neil Gates. Motion carried. Your new 2017 Club Officers are:

President Bob Kellar, Vice President Randy Laney, Secretary Don Brown, Treasurer Rob Stanley, Field Marshal Mike Mancebo, Safety Coordinator Dick Wareham, Newsletter Editor, Mark Huntley and Webmaster, Neil Gates.

VI. New Business:

Don Brown brought to Bob Kellar's attention that on the club website the Secretary and Treasurer's duties are combined but in reality they are two separate positions. Some discussion followed. Don and Bob are going to get to the bottom of this and let us know what they find out at the next meeting!

VII. Show and Tell: Dick Wareham brought in his new beautiful Super Kaos that he purchased from Tower Hobbies. It is an ARF kit and he installed a 50/50 electric motor that he had laying around. He said that he uses (2) 3 cell batteries in parallel for power. Dennis Campbell brought in his Dynam T-28 that he bought at an R/C Country Swap meet several years ago. He said that he has been enjoying flying it, but he has now decided to put a sound system in it. He saw the system when he attended the Scale Master's Championship in Woodland/Davis about 3 months ago. It is called: MrRCSound Aspire Sound Generator for R/C Aircraft. He purchased his from Motion R/C. It is their new version that is an upgrade from their V4.1 version. It has 8 different engine sounds with 15 different startups and 10 different shutdowns for each engine sound. The sounds range from a Merlin engine to a turbine jet engine. He demonstrated the Wright R-1820-86 cyclone radial engine which is the engine that the real T-28's use. He set the volume to its lowest setting for the demonstration since we do meet in a library. It comes with one TT-25 transducer that he glued to the side of the Styrofoam fuselage which then acts like a speaker. It is very loud even at its lowest setting! Mike Wilson brought in his latest design. He attached a Hobby King Vampire Jet unit on top of the wing of his Mini-Stick. He designed a fan housing unit around a plastic bottle and he reinforced it with some wooden rings that he made. Then he made an elaborate mounting system for it, one that he can adjust the thrust line up or down as needed. It is a very interesting configuration! Now to see if it will actually fly!!!

VIII. Awards:

1. ACE: Randy Laney was nominated again this month for being the C/D of our "40th" Balloon Bust this month. Dennis Campbell was also nominated for cooking hot dogs for everybody at the flying field on one recent beautiful Saturday and Sunday this month! Dennis took the trophy home with him since Randy had it last month.

2. OOPS: Bob Kellar told us that he crashed his Chipmonk because he didn't charge the battery and only had enough charge in it to get it high enough to totally destroy his old faithful airplane! He received 11 votes. John Lett crashed his 40% Decathlon because he didn't properly secure his flight battery. He received 9 votes. Dick Wareham totally destroyed his airplane at our balloon bust because his "thumb slipped off of the right stick" on his transmitter. He got 5 votes. Tim Cassidy also crashed his balloon bust airplane and totally destroyed it. He was absent from the meeting so he got 0 votes. Brian Lewis said that he saw someone crash his mini-stick one weekend day and then crashed his only other airplane the next weekend. Brian said that he didn't know the person's name and he wasn't at the meeting either, so he received 0 votes too. Neil Gates said that he crashed his 3D airplane because he thought the plane was right side up but it was actually upside down and he pulled up elevator destroying his favorite airplane. He was present but he also received 0 votes. Then we have Dennis Campbell. Mike Wilson gave him a receiver ready Eratix 3D earlier this month. Dennis assembled the plane and had Mike go out to the flight line with him in case it needed a lot of trim. Shortly after the wheels left the ground Mike noticed the wing suddenly got more dihedral in it. Mike said to him "Did you put the wing tube in it?" Dennis replied "No I didn't!" So Dennis gently turned the plane around and lined it up on the runway. He made a perfect landing right in front of him and the airplane sustained no damage! He received 18 votes and took the trophy home with him!!!

IX. Raffle: Dick Wareham won the card draw for the multi-charger but no luck! Wally Felahy won the dice roll and won the Rotary Power Tool. Those were the two big prizes. Other nice prizes were also won by the members!

X. Meeting adjournment: 7:55 pm

Respectfully submitted by: Dennis Campbell





NAME THIS PLANE

Each month I will try to come up with something special or unusual for you to guess. Your correct answer will win you 5 free raffle tickets at our monthly club meeting. You must attend to win. Good luck!



Tell me what you can about the picture above. Pilot's name, aircraft, maneuver and what is he doing?



TRCM
BADGE ORDER FORM

Clearly print your name, as you want it to appear on your badge. Badges are produced in upper and lower case letters.

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Order Quantity: Enter the number of badges you want to buy.

	Badges with Magnets	Badges with Pins
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Cost: \$10.00 each. Includes shipping & handling.

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Mail completed form and check to:

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Walnut Grove, CA 95690.

Questions? Call Dick at (h) 916-776-4536 or (c) 916-712-8944.

HEADWIND

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TRCM members are encouraged to submit articles or ideas for inclusion. Deadline for submissions is two weeks prior to the last day of the month.

Useful Website Links

Of course our TRCM website: <http://www.TokayRCModelers.com>

Academy of Model Aeronautics (AMA): <http://www.modelaircraft.org>

Our AMA District 10 website: <http://www.ama10.org>

For the giant scale flyers, IMAA: <http://www.fly-ima.org>

International Miniature Aerobatics Club (IMAC): <http://www.mini-iac.com>

IMPORTANT: Please make sure when you are the last one to leave the field that you only lock the club padlock through the farmers lock. Do not lock it to the chain as you lock out the farming folks.