



THE FLIGHTLINE



AMA CLUB 668 SINCE 1968
RACINE RADIO CONTROL CLUB INC SINCE 1968

RRCC March Issue
March 20, 2022 Newsletter

WE ARE ON THE WEB
www.racinerclub.com

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Racine R/C Club Meeting Minutes

February 20 16,2022

Time: 1:00 PM

Location: R/C Flying Field

Open Meeting - Jim opened the meeting at 1:00PM. 22 members present.

Welcome - New Members & Guests – Ken Dalton from Arlington Hts, IL was at the meeting as a new member. Ken works with Mike Stein. He has flown pattern planes in the past and getting back into the hobby. Welcome Ken.

Minutes - Last Meeting – There were no changes to the minutes from the last meeting.

Reports

President- The Milwaukee RC Association 2022 Swap Meet and Auction results. The event brought in \$1,100.00. This year's attendance was the lowest its ever been at 360 people. Past attendance was typically 1,200 people. Next years event will be held on 1/29/2023.

Vice President- Roger Nickolaus reported 35 people have signed up for the awards banquet. There will be no bar. Salads will be served at 5:30 and dinner at 5:45.

Secretary/Treasurer-Bob Johnson
Current membership as of the January meeting.

Senior Members	34
Open Members	16
Junior Members	1
Total	51

General Fund-Continues to be healthy. We are well positioned to deal with any expenses (planned or otherwise) for 2022.

For members renewing their membership via mail, please remember to include a self-addressed stamped envelope with your payment. A copy of your AMA card is appreciated as well.

News Editor-Dennis Vollrath had nothing new to report.

Field Chairman- Hoss had nothing to report

Tractor Chairman-Eric Armantrout reported his wife has completed the new aluminum safety signs. The signs conform with AMA and local rules and regulations, and they will be posted at all entry points to the field.

Web Master-Justin Francisco had nothing new to report and asked for photos of any members projects to be posted on Facebook.

Safety Officer-Dan Pozel had nothing new.

Compost Director-Jerry Rose reported all is good with the compost and reminded us that your date is your responsibility. No changes and after 4/6/22 Jerry will assign dates so make sure you sign up.

Old Business- Nothing to report

New Business – Voting for 2021 awards will take place at the meeting. Below are the members that were nominated.

Craftsmanship Award-Justin Francisco, Roger Nickolaus, Jerry Rose

Sportsmanship Award-Eric Armantrout, Darryl Hossalla

Golden Propeller Award-Jim Smith, Eric Armantrout, Roger Nickolaus, Darryl Hossalla

New Pilots – None

Show & Tell – Roger brought his new Byron Barron twin engine Beechcraft (EF) Plane. Roger built the plane from a kit and has it for sale for \$350.00. Plane does not include motors, ESP's or batteries.

Raffle Drawing – No raffle this month

Close Meeting – Jim closed the meeting with a reminder the next meeting will be Sunday March 20th.

JIM'S CORNER

The weather has not been cooperating with flying lately. Snowfall not bad this winter, and the temperatures seemingly warmer than normal for a Wisconsin winter, BUT the wind has been a lot stronger as I remember it; but who knows with my memory!

As of March 1st, the pad lock combination codes have been changed, and you can find the new code on your 2022 membership card. As you know, we change the lock combination and we also stop sending out club newsletters to members who have not renewed their membership as of March 1st. If you see any of our past members who have not renewed their membership, encourage them to do so. We would like to see them back flying at our field.

At our last meeting, the attending membership voted for the club's 2021 year awards. The awards were presented at the Club's annual banquet at Roma Lodge on March 5th. The award winners were:

Craftsmanship ----- Justin Francisco

Sportsmanship ----- Eric Armantrout

Golden Propeller ---- Jim Smith

Instructor Award ----- Roger Nickolaus

Those in attendance all seemed to have a good time, and the ever present deserts by some of the wives were greatly appreciated. (They were really GOOD!)

There was a special occurrence at this year's banquet, and that was a raffle drawing. A generous donation by Rich Smentek of a RC Para-wing aircraft was won by Eric Armantrout.

Rich has been very active in promoting activity within the club with his previous lottery scratch tickets given to all mem-

bers at a previous meeting, and now the raffle drawing prize at the banquet. Thanks Rich!

Our next club meeting is on Sunday, March 20th. Hope to see you there.

Fly Safe & Have Fun

Jim Litwin

President

Dennys Stuff

Well now. We've covered Voltage, Amperage and resistance.

Lets expand a bit on that resistance unit. In electricity, "Resistance" is the natural phenomenon of any conductor that is conducting any sort of electric current. The value of a resistor can vary anywhere from many millions of Ohms, down to a small fraction of one ohm.

When we get to those larger numbers, we start using Ohms, MegOhms and MilliOhms. Some resistors have a fixed value, such as a resistor or resistors used in an electronic control unit. Other resistor values can vary all over the map, like the typical incandescent light bulb.

A 100 Watt light bulb may have a resistance of 120 Ohms when it is hot, but that value can drop to 15 or 20 Ohms when it is cold. So, turning on an incandescent light bulb into its low cold resistance draws a real slug of current for a fraction of a second, until its filament heats up. That slug of current is hard on the filament, and is the reason those light bulbs often blow out when they are first turned on.

Then, we have other resistance values, like between your finger tips. That resistance value can be very high when your fingers are dry, but can drop by a hundred fold when they are soaking wet.

That's why you don't want any outlets

near by a bathroom or kitchen sink. And why we put a GFI (Ground Fault Interrupting) outlet on any bathroom outlets, or putting a GFI outlet circuit on any outlets outside your home.

As mentioned, the resistance of the human body can vary all over the map. Touching the terminals of a common 9 volt battery with your finger tips will not cause any problems. But if you touch those same terminals to your tongue, that's something you won't do again!

So, we've covered MilliAmperes, in our electric stuff. What is that "MilliAmpere Hours" term? Well, it's simply a given current multiplied by the number of hours that it has flowed.

Take a common 3 cell 2200 MilliAmpere Hour LiPo. That pack can theoretically put out 2200 MilliAmperes for one hour. Or, 22,000 MilliAmperes for 1/10 of an hour (Six minutes)

More familiar, that 2200 MilliAmpere Hours is the same as 2.2 Ampere Hours. And, that same pack can put out 2.2 Amps for an hour, or 22 Amps for 1/10 of an hour.

Another way of looking at it, 2.2 Ampere Hours is the same thing as 2.2 times 60 minutes or 132 Ampere Minutes.

That battery theoretically could put out 132 Amperes for one minute, or 22 Amps for six minutes.

Last but not least, we have the "Watts" term. The Watts value is simply the product of the Voltage times the Amperes of the circuit.

If that 3 cell 2200 Mah LiPo is putting out 45 Amps, we have the LiPo voltage of around 11 Volts times 45 Amps or 495 Watts. Watts is a direct measurement of energy, it takes 746 Watts to make one horsepower. That 495 Watts divided by 746 Watts per horsepower comes out to 2/3's of one horsepower.

One reason to keep your danged fingers away from the propeller of an electric model motor that is pulling a good por-

tion of one horsepower.

As a comparison, your editors giant Corvus model has a motor that is pulling 135 Amps at 37 Volts. That is 5000 Watts, or well over six horsepower. Electric power is no longer involving an underpowered model airplane when the system is properly set up.

Next issue, I'll cover what is happening to the brushless motor winding resistance, between the motor not turning over, versus running at full RPM.

DennyV
RRCC Editor



**Chuck, thanks
for the photos!**



Sportsmanship 2022

Eric Armantrout

Photo by Chuck Roberts

Craftsmanship 2022

Justin Francisco

Photo by Chuck Roberts



RACINE RC CLUB 2022 CALENDAR

January 1	Saturday	9:00 AM	New Year's Day, "First in the Air" Event
January 16	Sunday	1:00 PM	Club meeting - Flying Field
February 20	Sunday	1:00 PM	Club Meeting - Flying Field -
March 1	Tuesday		Lock codes changed
March 5	Saturday		Banquet
March 20	Sunday	1:00 PM	Club Meeting - Flying Field
April 6	Wednesday	12 – 6 PM	Club Compost Duty Starts
April 10	Sunday	1:00 PM	Club Meeting - Flying Field
May 15	Sunday	1:00 PM	Club Meeting - Flying Field
June 4	Saturday	8:00 AM	Shelter take down
June 12	Sunday	1:00 PM	Club Meeting - Flying Field
July 17	Sunday	11:00 AM	Club Picnic at Field - No Meeting
August 21	Sunday	1:00 PM	Club Meeting - Flying Field
August 28	Sunday	9:00 AM	RC Club "Open House"
Sept 18	Sunday	1:00 PM	Club Meeting - Flying Field Get proposed rule changes submitted
October 1	Saturday	Noon	Deadline for submission of Proposed Field Rule & By-Law Changes
October 1	Saturday	8:00 AM	Shelter setup
October 16	Sunday	1:00 PM	Club Meeting - Flying Field
Nov13	Sunday	1:00 PM	Club Annual Meeting - Election of Offic ers; Vote on proposed Field Rule & By- Law changes
Dec 7	Wednesday	12 – 6 PM	Last day Club Compost Duty
Dec 18	Sunday	1:00 PM	Club Meeting - Flying Field – Establish- Membership Dues schedule for next year
Jan 1, 2022	Sunday	9:00 AM	New Year's Day, "First in the Air" Event & Noon lunch (Electric Sunrise - Gas/Glow 9:00 AM)

**The following RRCC members have volunteered to be a substitute for
compost duty. Contact them to work out the details**
Steve Knackert 262-497-2824 Justin Francisco 414-484-4574

Date+K2 0129A1:K A1:K39	Time	Name(1)	Name(2)	Substitute	Date	Time	Name(1)	Name(2)	Substitute
04/06/22	12-2	Darrel Hossalla			08/10/22	12-2	Bob Johnson		
04/06/22	2-4	Darrel Hossalla			08/10/22	2-4	Bob Johnson		
04/06/22	4-6	Justin Francisco			08/10/22	4-6	Roman Kyrkiewicz	Helmut Schmidtke	
04/13/22	12-2	Roger Nickolaus			08/17/22	12-2	Raymond Redlin Sr		
04/13/22	2-4	Roger Nickolaus			08/17/22	2-4	Jim Smith		
04/13/22	4-6	Justin Francisco			08/17/22	4-6	Wayne Greisen		
04/20/22	12-2	Roger Nickolaus			08/24/22	12-2	Terry Peterson		
04/20/22	2-4	Darrel Hossalla	John Boticki		08/24/22	2-4	Dennis Vollrath		
04/20/22	4-6	Justin Francisco			08/24/22	4-6	Wayne Greisen		
04/27/22	12-2	Charles Roberts			08/31/22	12-2	Terry Peterson		
04/27/22	2-4	Rich Smentek			08/31/22	2-4	Dennis Vollrath		
04/27/22	4-6	Dan Pozel			08/31/22	4-6	Wayne Greisen		
05/04/22	12-2	Steve Knackert	Bill Flannery		09/07/22	12-2	Terry Peterson		
05/04/22	2-4	Rich Smentek	Bill Flannery		09/07/22	2-4	Dennis Vollrath		
05/04/22	4-6	Dan Pozel			09/07/22	4-6	Dan Pozel		
05/11/22	12-2	Charles Roberts	Paul Willems		09/14/22	12-2	J Fisher		Steve Knackert
05/11/22	2-4	Rich Smentek			09/14/22	2-4	James Houtsinger		
05/11/22	4-6	Charles Roberts			09/14/22	4-6	Eric Armantrout	Ron Dixon	
05/18/22	12-2	Steve Knackert	Dennis Krzyzanek		09/21/22	12-2	Buzz Paricka	William Wampler	
05/18/22	2-4	William Bylsma	Dennis Krzyzanek		09/21/22	2-4	Buzz Paricka	William Wampler	
05/18/22	4-6	Trygve Smalley			09/21/22	4-6	Bill Flannery		
05/25/22	12-2	Michael Stein	Douglas Karge		09/28/22	12-2	Buzz Paricka	William Wampler	
05/25/22	2-4	Michael Stein	Douglas Karge		09/28/22	2-4	James Houtsinger		
05/25/22	4-6	Michael Stein	Douglas Karge		09/28/22	4-6	Arland Matson		
06/01/22	12-2	Jerry Rose			10/05/22	12-2	Charles Brzezicki		
06/01/22	2-4	Jerry Rose			10/05/22	2-4	Charles Brzezicki		
06/01/22	4-6	Trygve Smalley			10/05/22	4-6	Charles Brzezicki		
06/08/22	12-2	Chris Stein	Paul Willems		10/12/22	12-2	Donald Parkinson		
06/08/22	2-4	Chris Stein			10/12/22	2-4	Donald Parkinson		
06/08/22	4-6	Chris Stein			10/12/22	4-6	Donald Parkinson		
06/15/22	12-2	Jerry Rose	Dennis Krzyzanek		10/19/22	12-2	Herbert Ludowieg		
06/15/22	2-4	Ray Fisher			10/19/22	2-4	Herbert Ludowieg		
06/15/22	4-6	Ray Fisher			10/19/22	4-6	Herbert Ludowieg		
06/22/22	12-2	Steve Knackert	Arland Matson		10/26/22	12-2	Carl Bergquist		
06/22/22	2-4	William Bylsma			10/26/22	2-4	James Houtsinger		
06/22/22	4-6	Trygve Smalley			10/26/22	4-6	J Fisher		Steve Knackert
06/29/22	12-2	Pete Luks		Steve Knackert	11/02/22	12-2	Jim Litwin		
06/29/22	2-4	William Bylsma			11/02/22	2-4	Jim Litwin		
06/29/22	4-6	Roman Kyr- kiewicz	Helmut Schmidtke		11/02/22	4-6	Jim Litwin		
07/06/22	12-2	Pete Luks		Steve Knackert	11/09/22	12-2	Carl Bergquist		
07/06/22	2-4	Jim Smith			11/09/22	2-4	John Boticki		
07/06/22	4-6	Bob Johnson			11/09/22	4-6	James Strelitzer		
07/13/22	12-2	Raymond Redlin Sr	Paul Willems		11/16/22	12-2	J Fisher		Steve Knackert
07/13/22	2-4	Jim Smith			11/16/22	2-4	John Boticki		
07/13/22	4-6	Roman Kyr- kiewicz	Helmut Schmidtke		11/16/22	4-6	James Strelitzer		
07/20/22	12-2	Pete Luks		Steve Knackert	11/23/22	12-2	Carl Bergquist		
07/20/22	2-4	Eric Armantrout	Ron Dixon		11/23/22	2-4	Arland Matson		
07/20/22	4-6	Eric Armantrout	Ron Dixon		11/23/22	4-6	James Strelitzer		
07/27/22	12-2	Richard Stapleton			11/30/22	12-2	Ronald Hayes		
07/27/22	2-4	Richard Stapleton			11/30/22	2-4	Ronald Hayes		
07/27/22	4-6	Richard Stapleton			11/30/22	4-6	Ronald Hayes		
08/03/22	12-2	Raymond Redlin Sr			12/07/22	12-2	Steven Navone		
08/03/22	2-4	Ray Fisher			12/07/22	2-4	Steven Navone		
08/03/22	4-6	Ray Fisher			12/07/22	4-6	Steven Navone		