

THE **RCRC** NEWSLETTER
ROCKET CITY RADIO CONTROLLERS, INC. HUNTSVILLE ALABAMA



... an AMA Award of Excellence Club!

Proudly serving the Huntsville community at the Captain Trey Wilbourn Model Airplane Field.

P.O. Box 2163

Huntsville, AL 35804

November 2017

President's Message

Officers		
President		
Bob Templeton		256-479-7378
Vice-President		
Al Blair		269-277-0879
Secretary		
Acting – Tom Wimsatt		
Treasurer		
John Tubb		401-450-9669
Newsletter Editor		
Tom Wimsatt		401-222-0658
Committee Chairmen		
Field/Facilities		
Wade Sims		205-310-4846
Programs		
Al Blair		269-277-0879
Publicity		
Bob Templeton		256-479-7378
Safety		
Al Blair		269-277-0879
Web Admin		
Bob Templeton		256-479-7378
Flight Instructors		
John Pieczynski	By Appt	256-651-6487
John Tubb	By Appt	401-450-9669
Mike Duncan	By Appt	256-509-8801

Club officer elections will be held at the next meeting (Nov 21). A ballot is attached to this newsletter. At this time, we do not have any nominees for newsletter editor or secretary. We really need to fill these positions for 2018. Therefore the ballot will be blank for those positions. Please contact me if you would like to help your club with some much needed operational help.

Jim Parsons from Dynetics attended the October club meeting with a request for assistance in obtaining some RC-related data for a project he is working on. Details of his request are included below. Please contact Mr. Parsons directly if you are able to help.

The next batch of fuel will be ordered this month. Please contact Al Blair if you need to order/purchase fuel.

Our 2018 Toys for Tots fundraiser is on Saturday Nov 18. We are doing our best to get a good spectator turn-out. The flyer for this event is attached for you to share. Please help us spread the word. We will have fun-fly activities and open flight on the runway and there will be quad racing that day as well. We have well over 100 members at this time. There is no excuse for poor support from our members for this cause. Even if you aren't flying, plan to come out and say hi and drop off a toy or donation. If you can't make it to the event, we will accept more donations at our November meeting or you can make a PayPal payment to PAYMENTS@RocketCityRC.com stating funds are to go to Toys for Tots. 100% of all donations go directly to Toys for Tots.

Fly well, fly safe,
Bob Templeton
President - RCRC



**Minutes of the October 17th, 2017
RCRC Club Meeting**

Meeting Called to order at 1801. A quorum was present.

Old Business

October Newsletter content approved.

October Treasurers report approved.

Safety Report: Pressure bandages should be included in first-aid kits. Club president agreed to procure a sample for consideration.

Club runway repaving and backfilling complete. Special thanks to club members who pitched in and helped to make this happen. Painting of runway is being funded by Avian Corp. Club should receive word from the company by end of the week (~21 October).

October Treasurer's Report:

- a. Expenses for October: \$1,737.03
- b. Income for October: \$263.30
- c. Money Market: \$8,009.69
- d. Checking Balance: \$983.89

Nominating Committee (Clarence Hauck and Wade Sims) Status: No volunteers for Club Officer Positions. Please note:

- 1) The newsletter editor and Secretary positions will be/are vacant;
- 2) If no members volunteer to serve these roles, the Club President has the option to appoint club members to fill them.

New Business

A member reported a missing plane (a 72 mHz model, no other information provided). If anyone knows of its whereabouts please let one of the club officers know.

Toys for Tots: Event to be held November 18th, 2017. The event entry fee is \$20 or a toy of equal value. A flier is included in this newsletter.

Al Blair is taking fuel orders. Please contact Al if you need fuel. He'll be ordering it next month.

Meeting adjourned 1830

Tom Wimsat



Board of Directors Meeting Minutes

November 8th, 2017

- Finalized plans for Toys for Tots event. Al has distributed flyers.
- FPV event scheduled November 18th (Toys for Tots entry fees will apply)
- **Three 22 cal shell casings and one unfired/misfired 22 cal round were reported to be found in the pit area on October 30th. This will be discussed at the November club meeting.**

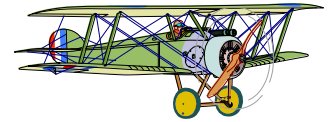


2018 Club Officer Ballot:



**2018 Board of Directors
Election Ballot**
Please circle desired candidate

Board Position	Candidate	Write-In
President	Bob Templeton	
Vice President	Al Blair	
Treasurer	John Tubb	
Secretary		
Newsletter		



Fun Fly games are planned with Marine Corps-Themed Prizes



All aircraft types are welcome!



**Landing fee: \$20 or toy donation of same value
Lunch will be provided
November 18th, 2017 8am-3pm**

Information is available at:

<http://RocketCityRC.com>

<http://Facebook.com/RocketCityRC>

Contest Director:

Al Blair - alkainblair99@yahoo.com
(269) 277-0879

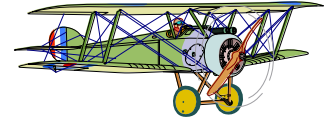
Location:

[Capt. Trey Wilbourn Field, Huntsville, AL](#)
[GPS Location: 34.685171, -86.592244](#)

Directions:

From the west at I-65/I-565 intersection,
take I-565 East, then Memorial Parkway
South, then exit right on Airport Road,
then left on Leeman Ferry Way SW





Request from Jim Parsons of Dynetics:

I thank you for letting me describe my work task at your meeting last week and talk with you afterwards. Below is a description of the information I am seeking and would be thankful if you can mention it in your club newsletter.

My task is to build a generalized propulsion predictor for remote control aircraft / unmanned aerial vehicles and the range of interest is 2 to 20 horsepower for internal combustion engines (glow plug, 2 stroke, 4 stroke, diesels too), about 1.5 to 15 kilowatts for electric motors, and corresponding propellers. The performances for the motors and propellers are more available and are easier to predict than for the IC engines. Also I am becoming aware of tools such as eCalc and Motocalc (for motors only?). For propellers, plots with thrust, torque and/or power coefficients, advance ratio, and efficiency describe performance for a given propeller geometry (usually described as “diameter” x “pitch length”). For the electric motors, plots with speed, torque, efficiency, and motor controller characteristics describe electrical power. For IC engines, plots with speed, torque (or brake mean effective pressure, bmep) with islands of fuel flow describe IC an engine performance, but these appear to be quite rare and desired. The goal for the predictor is to determine operating curves for coupled engines/propellers or motors/propellers that predict speed, thrust and “fuel” flow (electrical or liquid, efficiency) for throttle settings and altitudes. Thus I am in search of such data for motors, propellers, and especially engines and would appreciate any help. My contact info is:

Jim Parsons
Dynetics
Jim.parsons@dynetics.com
[256-964-4931](tel:256-964-4931)

At the meeting I only mentioned the IC engine topic, my most difficult issue.

Additional findings/thoughts so far:

Glo plug engines might list a peak hp at a speed, rarely a fuel flow, and never curves or maps.

2/4 stroke engines usually list a peak hp at speed and occasionally show a curve of power or torque versus speed, very rarely show fuel flow versus speed or power/torque, never show fuel flow islands versus both speed and torque.

I have taught fluid mechanics, thermodynamics and IC engine courses at the college so I understand the technical side. I value the practical side that club members may share as well. For engines I feel the desired data does not exist except for a few specialized, thoroughly developed Department of Defense type UAVs.

Thank you and sincerely,
Jim Parsons
Dynetics
Jim.parsons@dynetics.com
[256-964-4931](tel:256-964-4931)



RCRC NEWSLETTER EDITOR
P.O. Box 2163
Huntsville, AL 35804

TO:

<u>2017 RCRC EVENTS</u>		
18 November 2017	Toys for Tots	Al Blair, CD

The field will be closed to members on Friday at noon before all field events, except Club Day and Toys for Tots. The field will be released back to the club by CD when the event is finished.