



Cornwall Aero Modellers

NEWSLETTER

November 2016

**Club Executive**

**President: Karl Kingston**  
**Vice-president: Rick Besner**  
**Treasurer: Roger Belanger**  
**Secretary: Mike Cafferky**  
**Field manager: open**  
**Events: Jack Dikland & Merv Blizzard**  
**News editor: Frank Reaume**  
**Safety Officer: Taylor Pratt**

The November meeting was held on the 14th at Minimax.

- The treasurer's report was presented and adopted. The club's bank balance is still healthy.
- Now that winter is approaching, guideposts will be installed along the roadway in preparation for snow clearing. Also, the weather station will be relocated to a higher elevation.
- Cornwall city hall is discussing the long-term renewal of our lease.
- A plaque honouring the memory of long-time club member Roland Lussier has been installed in the clubhouse.

- The spring mall show at Cornwall Square is scheduled for April 22/ 2017.
- It was agreed that the field rules should be posted at the clubhouse. The secretary will prepare some type of poster to this effect.



**For glow guys and gasser guys:**

***NEW - Sullivan ProFlex Universal Fuel Tubing***

The ProFlex line of universal tubing is a proprietary **Fluoroelastomer (FKM)** tubing that will **Never** harden. ProFlex has been designed and tested to be impervious to gas, glow, diesel, and smoke oil. The thin walls allow maximum flexibility without kinking. Now available at your favourite Sullivan retailer.



At the recent control-line world championships, many of the models flown were powered by electric motors. Here is a link to a video of the electric C/L stunt winning flight (by an American).

<https://www.youtube.com/watch?v=2OXghIpwpaU>

Of the 65 pilots from 20+ countries the choice was almost 50% electric powered, the rest, of course, glow powered. The electronic speed controls were manufactured by contestant Keith Reneckles of South Africa. The advantage of his invention is that the ESC can adjust the motor speed where required, bringing in extra power as the models nose lifts in maneuvers, and decreasing power on down hill and level flight.

One interesting fact was that the props on many of the electrics were carbon fibre, but hollow, weighing nearly zero. They hold together on electric motors with continuous power whereas a glow motor's vibration would break them. It has advantages (reduces P factor) giving better maneuvers.

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For you electric pilots who are worried about poor performance in cold weather, here is the answer from Hobbyking:

**Turnigy Programmable Lipo Battery Warmer Bag** - Lipo's can lose up to 40% of their capacity when used in cold weather. This of course will drastically shorten flight times and of course performance. This superb Turnigy lipo warmer is perfect for the RC enthusiast who is flying/driving in cold weather/climate and also for competition pilots/drivers looking to squeeze every ounce of capacity from their battery for optimum performance, even in warm ambient temperatures.





You can select the desired temperature via the simple to operate buttons/LED display on the front of the bag, the inbuilt microprocessor offers a 7 step heater range from 25°C ~ 45°C (77°F ~ 113°F) and the sealable bag, which is lined with a heat reflective material, keeps your lipo snug and ready to use.

**Specs:** Input Voltage: 10v ~ 13v DC Idle Current: <30mAh Working Current: 2A Programmable Temp Value: 25/27.5/30/32.5/35/40/45°C (2 button +/- operation with LED display) Operating Temp: -10°C ~ 45°C Dimensions Overall: 295mm x 230mm Dimensions Lipo Cavity: 195mm x 230mm Weight: 135g Connector: XT-60 + Croc Clip Lead (supplied)

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Some sad news from the hobby industry:

(from the Aeroworks website)

## AEROWORKS CLOSING!

It has been over 25 years that Aeroworks has been involved in the RC airplane industry. Aeroworks takes great pride in all that we have accomplished through our designs, event sponsorships, RC pilot sponsorships, dealer relationships and most importantly all the RC pilots we have come to know around the world. The time has come for Aeroworks to say goodbye as we move on to new endeavours. Aeroworks will be closing effective October 28, 2016. We sincerely want to thank everyone that has supported Aeroworks throughout the years and we will treasure the time we have shared with all of you.

Sincerely, Rocco and Sandy - Aeroworks

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Two new “dual” chargers have recently come onto the market. Both are reasonably priced at around \$200 USD, and both can charge the newer “high voltage” lipos which can reach 4.35v per cell.

The first charger is the Hitec X2-700:



- Charges 2-8S LiPo/LiHV/LiFe/LiIon batteries
- Two 700-watt output ports for increased charging capacity
- May be controlled from a PC
- Synchronous Mode for setting both charge channels through channel one
- Built-in lithium cell balancer
- Four lithium battery charges modes; Regular Charge, Fast Charge, Balance Charge and Storage Charge modes
- Five Data Store/Load profiles
- Input power monitoring
- Capacity, temperature and processing time limits
- Cyclic charging/discharging
- Automatic charging current limit
- Battery internal resistance meter



Next is the Graupner Ultra Duo Plus 80:



Charges 1-7 cell lithium  
1-18 cell NiMH and NiCd  
1-12 cell lead acid batteries  
20A maximum charge current from both outputs  
High performance RISC microprocessor  
7-Cell Balance Board/Cable (EH to XH 2 pairs)  
Two Temperature Sensors  
USB Cable

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Foamies have come a long way. Here is the giant-scale, nearly all foam, Cessna 170 from Flex Innovations (priced at \$499 USD):



#### GREAT FEATURES INCLUDED!

Advanced Aura 8 Control System

Hollow wing with internal wood and carbon structure

Light wing loading for easy handling

Large flaps for stunning short takeoffs and landings

Vortex generators for low speed control

Extra-large tundra tires for flying off of unimproved fields

Glider Towing mechanism installed (requires servo not included)

Scale navigation lights Installed

33g metal gear digital servos for ailerons, elevators, and rudder

19g full metal gear digital servos installed on the flaps

Powerful all metal 60 size motor with optimized Kv

80A HobbyWing BL motor controller with separate 5V/8A SBEC

Float-ready air-frame for easy addition of optional floats

Custom control horns for optimized throw and precision

Factory applied trim scheme

Huge battery compartment for easy access

Accepts a wide range of batteries while offering a range of different performance levels



Drones are rapidly coming becoming main stream. Their pilots are now competing on various racing circuits for big bucks – see below:

March 21, 2016 -- The World Drone Prix in Dubai was the first **million-dollar** drone race, with the winning team taking home a cool \$250,000. Check out this video where we meet the tech-loving thrill-seekers behind the sport who want to turn it into the next big thing.

<https://youtu.be/pZ0viMxYDA4>

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