



The Antenna

January 2014



Wayne Hutmacher flying while Will Gross watches at the Arctic Aviation Adventure on Jan 1, 2014

Next Club Meeting: 7:30PM, Wednesday February 5, 2014 at the CARFF Clubhouse

In this Issue: 3D Printing

Arctic Aviation Adventure

NEXT CARFF FLYING EVENT: Jan 26: Indoor Flying, Penhold Regional Multiplex,
1:00 - 4:00pm, \$10.00/pilot

2014 Executive, Standing Committees and Contacts

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Director Will Gross, 403-346-6119, ti2wgo@hotmail.com

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Rob & Gale McCoy

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COUNTY OF RED DEER BYLAW ENFORCEMENT

403-343-6301 (Call will be forwarded to member on duty). Primary contact: Stephen Poburan
If no answer call Bob Dixon 403-505-9030.

Fire Burning Permit: Not Required.

Field GPS Coordinates: N52° 12' 6", W113° 42' 18" (N52° 12.106', W113° 42.304')

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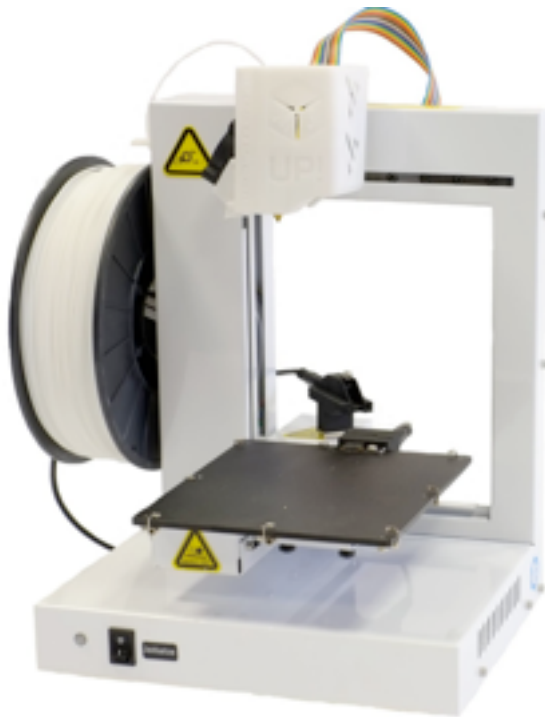
3D PRINTING

Eraldo Pomare

There has been quite a lot of mainstream media buzz around 3D printing and that buzz has piqued my interest. Modeling applications are limited by our imaginations: dummy scale engines, machine guns, 3D mini-me pilot figures, functional scale and non-scale fittings & details....

Yesterday I picked up the winter 2014 copy of "Make:" magazine at Chapters (makezine.com). It is a special edition on 3D printers & scanners. I learned the following:

1. Practical desk-top 3D printers range in price from \$300 to \$3,000. Typical print volumes: 5"x5"x5" to 11"x6"x6" and feed materials cost \$20 to \$40 per pound.
2. Available on-line at Amazon.com and also Canadian sources at Canadian prices.
3. Lots of free software available for Windows, MAC & Linux operating systems.
4. Most, maybe all, consumer 3D printers use rolls of 1.75mm dia. plastic filament feed material which is melted and laid down by the print-head. The head moves in 3 directions (x,y&z). Available materials include: ABS, PET, high impact polystyrene, nylon, polycarbonate, laywood (4% wood - smells & feels like wood), conductive material.
5. Laser scanners typically cost ~\$1000 for small objects. Scanning full size people is possible and quite popular too!



Hollow models are very easy to make.

For making metal parts, people are creating a plastic model then using the "lost wax" casting method common in jewelry making.

In my opinion, 3D printing is a perfect fit for modelers and the prices should fall while the technology improves over the next couple of years. Definitely a technology to watch!

The photo on the left shows a typical consumer machine. In this case both the the print-head and the baseplate move to create 3D models.

It's a matter of time before one of these machines ends up in my basement :)

EDITOR'S SOAPBOX

Eraldo Pomare

There is only one club meeting in Q1 and that comes up in a couple of weeks. The focus of the February club meeting will be the 2014 budget and confirming the events schedule. The executive has a mall-show, and air show planned in addition to the usual annual events such as the CARFF Auction. I plan to run the Sailplane event again this year if approved by the membership.

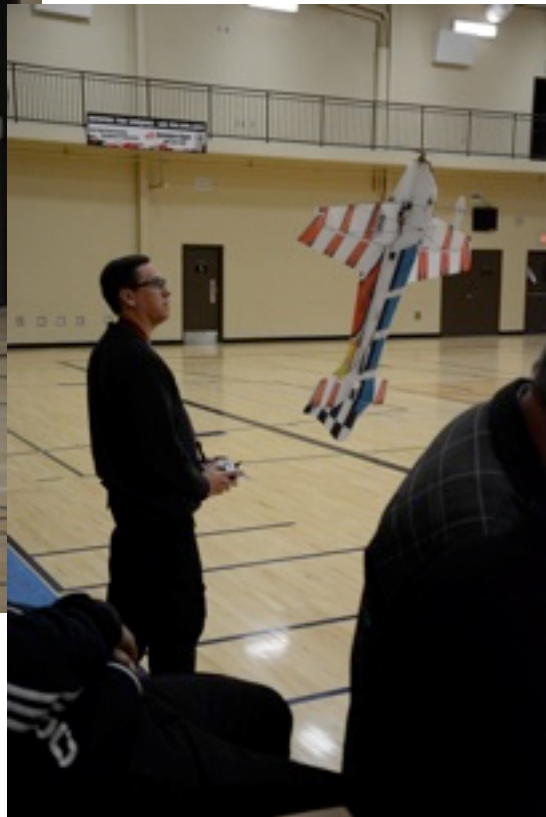
ARCTIC AVIATION ADVENTURE

Thank you Rob & Gale McCoy for hosting the Arctic Aviation Adventure again this year. The weather was ideal and if my memory serves we had 11 pilots fly. Electric models reigned supreme - no dead sticks so taxi back to the pilot area was generally easy (unless you nosed over - see pics below). The hot dogs were great too. Wendy Brooker made superb fudge too! Thanks!

Australian & Costa Rican visitors had fun & were impressed by our winter flying.

A special thanks goes to Ed Collins & family for the fantastic job of clearing the snow around the parking lot and to the flight line.





2014 Calendar of CARFF Events

Jan 26, 2014 (Sun)	Indoor Flying, Penhold Regional Multiplex, 1:00 - 4:00pm, \$10.00/pilot
Feb 9, 2014 (Sun)	Indoor Flying, Penhold Regional Multiplex, 1:00 - 4:00pm, \$10.00/pilot
Feb 23, 2014 (Sun)	Indoor Flying, Penhold Regional Multiplex, 1:00 - 4:00pm, \$10.00/pilot
Mar 9, 2014 (Sun)	Indoor Flying, Penhold Regional Multiplex, 1:00 - 4:00pm, \$10.00/pilot

Additional 2014 events will be published as soon as information becomes available.

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