

### THE FLIGHT LINE

By David Raff – President

#### It's Official – Spring Cleaning & Construction have begun!

The new Pavilion(s) construction is underway! It looks light all of the permitting has been approved and some fresh fill dirt has been brought in to level the areas in preparation for the concrete slabs to be poured. As I mentioned last month, these should be completed and ready for use within 3 weeks from the start of the project. Perhaps we could schedule a Family Day Event around the completion date. I will check with "Doc" to see when this should be and advise everyone.

We started the clean up of the front entrance this past weekend too. Several of the club members showed up early Saturday morning and jumped right into clearing the area to the East of the entrance. This has "opened" the visibility of the field tremendously, especially when you are coming down Route 60 towards Mulberry. We will schedule another day sometime in the future to do "a little" clearing of the west side of the entrance.

Scott Smith and a few of the members also spent some time prepping the flight staging area for the upcoming pylon races (March 17 & 18). George Nauck started freshening up the existing shelter with some new paint too! A very special **THANK YOU** from this president goes out to all that showed up and helped!

Another really good thing happened this past weekend as well. Gary Snyder (treasurer) had informed me that in addition to the work detail and those that showed up for the Swap Meet afterwards that he signed up three more members on Saturday. Welcome to all of the new and the renewed members.

Speaking about getting new members – I would like to be sure that everyone is aware of two of the AMA's programs designed to entice new membership. The first being the "Intro Pilot Program" This program was recently developed by the AMA to give everyone a chance to experience the excitement and thrill of flying radio controlled models without having to spend a lot of money upfront. Under this program, a "prospective" member has the opportunity to work directly with one of our AMA Authorized Intro-Pilot Flight Instructors for 60 days from their first flight without the need to join either the AMA or the IRCC. During this time, while under the direct supervision of the flight instructor they are covered by the same AMA's Liability Insurance plan. We have trainer aircraft available for use and our instructor are ready and eager to work with new pilots both the young and

the "not so young". Personally, I believe, that this is one of the easiest and best ways to increase both the clubs membership and financial stability. No dues, no expense for equipment, the opportunity to work with an experienced pilot and the chance to meet and hang out with some of the finest people in the hobby! Sounds like an offer they can't refuse! So go out and spread the word! Talk to your friends, relatives and neighbors and invite them to come by to take a test flight or just come out to watch, THAT IS ALWAYS FREE TOO!

Here is another little know secret that is offered by the AMA the "SIGN THREE – FLY FREE" Program.

This one is for active AMA members and provides for a 1 year Free membership credit for every three new or former member that you sign up. This is now accumulative so multiple years of free AMA membership can be attained. To qualify: "All new or former memberships must be full OPEN or Senior Citizen memberships. New sign-ups cannot be current or recent AMA members. (Their memberships must have expired by 12/31/2005). Simply be sure that your name and AMA number as the sponsoring member is clearly identified on the new members application. For current AMA Life Members – you can participate as well and will receive an AMA merchandise credit of equal value to a 1 year membership.

That's all there is to it!

#### "SIGN THREE – FLY FOR FREE"

Keep these in mind the next time someone asks you about your hobby or you are just sitting around talking with family or friends.

Until next month - that is all from "The Flight Line".

*Inc. New Members*

*Proposed at the February Meeting  
Bob Dougherty,*

**Our next club meeting is:  
Thursday March 8<sup>th</sup> at FTE  
Plan to attend and see what's new !!**

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*Courtesy and  
Common Sense  
Keeps R/C Modeling  
Fun for Everyone.*



March 1-4 Paradise Field  
Lakeland Florida Airport



**IRCC Spring Race Week**

**"Southern 500"**

March 16 - 18  
[www.imperialrcclub.com](http://www.imperialrcclub.com)



**IRCC Membership Update**

From Gary Snyder, IRCC Secretary

**We have a GREAT MEMBERS !!!!**

Renewals continue to come in with membership now up to 77 members. New members since the February meeting include: Daniel Adcock, John King and Shawn Matthews

*Hope to see everyone at the field!*



**IRCC Instructor Report**

From: George Nauck

**We have GREAT INSTRUCTORS  
and STUDENTS !!!!**



**IRCC Field Maintenance Report**

From: Ian Clark

**We have GREAT Maintenance !!!!**

**FIELD MAINTENANCE REPORT  
February 19,2012**

Thanks everyone!  
We had a very successful field maintenance day. The turnout was just great! Everyone pitched in and we got a lot of work done. The front was opened up and with the new fencing, looks much better. Our building received a new coat of paint and everything was trimmed up and the place looks wonderful. I want to thank the following people;

Tommy Wood	Rick Ruede
Jack Buie	Dave Raff
Robert Russ	Mason Benefield
Jorden Bavaro	Rodger Pilkenton
Steve Baxley	Jerry Morris
Gary Snyder	Dan Hudson
Dave DeWitt	Dennis Peterson
Ethel Dawson	Greg Rowe
Ben Dawson	Mike Zellars
George Nauck	Wally Sundeay
Charlie Patterson	Joe Manzella
Danny Adcock	Scott Smith
Shawn Mathews	Jerry Ruthven

If I forgot to include someone, please let me know and I will get your name added. Thank you all for your help.



**Coming to a Plant City Airport near you  
soon >>>>**

**PLANES, TRAINS & AUTOMOBILE**

*(Not the Movie)*

PLANT CITY AIRPORT  
SATURDAY MARCH 24TH

Many of you took part in last year's PLANES, TRAINS AND AUTOMOBILE EVENT at the Plant City Airport.

This First Year event itself, was an outstanding success with almost 3500 spectators in attendance, roughly 75 scouts receiving their "Aviation" Merit Badge and over 200 kids were given "FREE" airplane rides. The IRCC "Static" display and flight demonstrations were such a big hit (I

The IRCC monthly club meeting will be held at FTE near the Lakeland Airport.  
The next meeting will be on Thursday March 8<sup>th</sup> and will start promptly at 7:30pm.

was told at a recent Chamber meeting that the large white tent on the east end of the show display area never had an empty seat with people watching us fly) that we have been asked back again this year. The event is scheduled a little earlier this year (March 24<sup>th</sup>) and should be little cooler than last year.

We have been given a slightly larger area for the static display and may have the opportunity to do both an Opening Ceremony and Noontime Demo. TIA will have an active "Control Tower" on-site so that we may be able to get some of the "larger" and more exotic aircraft in the air throughout the day.

I will be posting a sign-up sheet at the field for anyone interested in taking part in the "Static Display" and/or the Flight demonstrations and we will be talking more in detail at the February meeting so please plan to attend.



### **Heat Treating**

*From Steve Jaworski*

The strength, hardness and toughness of certain alloyed metals -- including carbon steels and copper-based aluminum alloys -- can also be profoundly affected by heat-treating. Heat-treating is particularly valuable because it permits the properties of a metal part to be changed in the course of manufacture or repair.

Anyone who has built model airplanes is probably already familiar with heat-treating. Suppose you want to make a spring-steel landing gear for your model out of a length of high-carbon steel "music wire" (also known as "piano wire" or "spring wire") available at any hobby shop.

As it comes from the store, music wire is very springy and very tough -- approximately 45 on the Rockwell C hardness scale (RC45) and perfect for a landing gear -- but it's also extremely difficult to bend and form without breaking. The solution many modelers use is to heat the wire with a torch until it becomes a bright cherry red -- about 1400 °F (known as critical temperature) -- and then let it cool slowly in still air. This process is called annealing and transforms the steel wire into a soft, non-springy form (about RC25) that can easily be bent and formed to the desired shape. Of course, in this annealed state, the wire is way too soft to be suitable landing gear material -- but that can be easily rectified.

Once the gear is bent to shape, the next step is to heat-treat the wire by heating it back up to critical temperature (bright cherry red, about 1400 °F) and then plunging it rapidly into a bucket of water (quenching). This transforms the wire into a very hard condition (RC60+). In fact, the heat-treated wire is now so hard that it is quite brittle and would probably snap off in a hard landing.

The final step is to temper the wire back to the desired RC45 hardness to provide the desired toughness and springiness. This is done by heating the wire back up to a medium blue color -- about 750 °F -- and allowing it to cool slowly in still air. The final hardness is a function of the

tempering temperature: The hotter the metal is heated during the tempering process, the softer, tougher and less brittle will be the end result.

In case you were wondering, this very same process -- annealing, bending, heat-treating, and tempering -- is precisely the way the flat or tubular spring-steel landing gear legs (like the ones used on single-engine Cessnas) are made.



### **IRCC Meeting Minutes**

February 2<sup>nd</sup>, 2011

*Minutes recorded by:*

*George Nauck, Secretary*

President David Raff called the meeting to order at 7:30 PM. New members were recognized and welcomed. They were Bob Dougherty, Andrew Durant and son Davin.

Minutes from the January meeting were approved.

Treasurer Gary Snyder reported the current balances of the Checking Account at \$xxxxx after the influx of new annual dues. He reported the "burn rate" to be about \$xxxxx monthly to pay the club bills, two thirds of which is field rent.

Membership report -- We currently have 70 paid members for 2012. Gary sent letters to all those who had not renewed as of last meeting, and the list of prior members that have not renewed has declined significantly. Gary stated that the January renewals may be a club record.

Field maintenance report -- Rick Ruede is making a new sign for the field. The permitting for the new pavilions is progressing, and construction should begin soon. The construction period should be only 3 weeks.

Instructors Report -- Larry Loucks reported that Terry Crosby is doing landings now, Andrew and Davin are putting their trainer together, and Abe and Steven are also working with him. George Nauck reported that he had soloed Terry Baker and soon after found that Terry had completed three flights one morning before George got to the field at 8:30 AM, after which Terry changed and went to work! Bill Thompson is doing well with his flights for refresher and confidence building, only needing to demonstrate a take-off to be on his own.

Safety Report -- There have been no issues of concern reported.

Old Business -- Prior discussion about gate security. Need a work day to install added gate security with posts and barbed wire. Decided on Saturday, February 14<sup>th</sup>. Ian will get posts and barb wire together.

New Business -- March 1-4 will be Florida Jets. Discussed possible raffle to raise club funds. Larry L is

donating a Nextstar airplane. Need to come up with an engine and radio to make a complete package. David announced that Gary Marshall had accepted responsibility as event chairman. March 17-18 is SEMPRA pylon racing at our field. Scott Smith gave an update and solicited volunteers. Scott reported that his pylon race plane kits are now going international. Congratulations, Scott! A big attaboy!

March 24 is Planes, Trains, and Automobiles at the Plant City Airport. We will again be involved with static and flying displays.

Sportsmanship Award – Went to Larry Louckes for his years of dedication as President and the many extras he has volunteered to benefit the club such as concessions, field search, and on and on.

Thanks from all of us Larry, we truly appreciate your service to IRCC.

Plane of the Month – Bob Curry gave us some great tips on model building and renovation. He showed us how silkspan and dilute white glue can be used to cover foam aircraft parts, making a hard, smooth surface, after which it can be painted or new decals applied. He then showed us a Great Planes Ultimate Bi-plane kit that he is working on, and gave us a demonstration of how to mark centerline of stock for ailerons and such. He demonstrated making the bevels, and how to install the CA hinges. A really good set of teaching tips, and discussion about the joy of BUILDING your own models.

The 50/50 was won by XXXXX (in case his wife reads the newsletter) and netted both he and the club \$52.00

**NOTICE TO ALL MEMBERS THE GATE CODE WAS CHANGED ON SUNDAY JANUARY 8, 2012. IF YOU HAVE NOT RENEWED, NOW IS THE TIME.**



### AMA Vision

We, the members of the Academy of Model Aeronautics, are the pathway to the future of aeromodeling and are committed to making modeling the foremost sport/hobby in the world. This vision is accomplished through:

- Affiliation with its valued associates, the modeling industry and governments.
- A process of continuous improvement.
- A commitment to leadership, quality, education and scientific/technical development.
- A safe, secure, enjoyable modeling environment.

### AMA Mission

The Academy of Model Aeronautics is a world-class association of modelers organized for the purpose of promotion, development, education, advancement, and safeguarding of modeling activities. The Academy provides leadership, organization, competition, communication, protection, representation, recognition, education and scientific/technical development to modelers.

## Coming Area Events

### Florida Jets

March 1-4

### IRCC Spring Race Week – “Southern 500”

March 16 - 18

### Sun'n Fun

March 27<sup>th</sup> – April 1<sup>st</sup>

T-Birds this Year !!!

### Easter

April 13th

### Top Gun

May 2 – 6

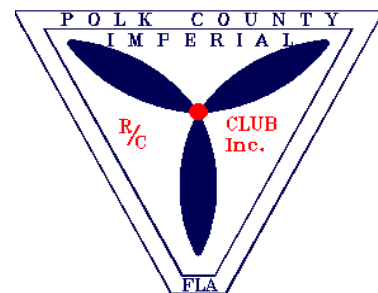
### Monster Planes USA

TBA

### Twelve O'Clock High

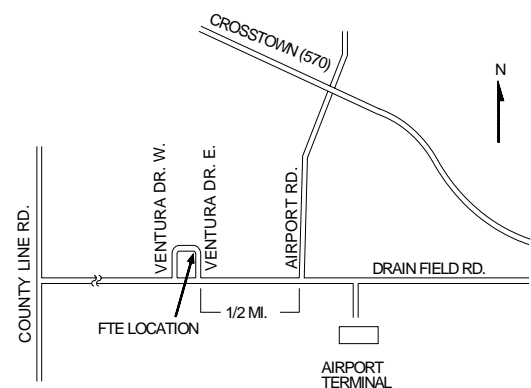
TBA

<<< Visit [www.imperialrclub.com](http://www.imperialrclub.com)  
and Follow the Events Link for all the details >>>



Here is where we meet each month.

Please **DO NOT PARK ON THE GRASS**  
at FTE or his neighbors.



**OUR NEXT MEETING IS: Thursday March 8<sup>th</sup>**