

Touch & Go

By: Scott S. Smith,- President

I would like to thank all of you who came out and pitched in on the workday, I think the results speak for themselves. The field looks great. Jim Urick is putting in a lot of time on the new billboard signs, and I think you will all like the way they look. They will be up prior to the Heli meet and should be the last of the field maintenance issues for quite some time.

I also would like to invite you to the next meeting at Frank Tiano's office, home of ZAP products for the Eastern US. It is great to have such caliber of people among us, and know that he cares about this sport. PLEASE, make sure you take good care of this facility, and leave his place in the same condition, or better than when you got there. It is a beautiful site, and I know that Frank wants it to stay that way!

We have two big events for the club coming up in the next few weeks. Doug Bruns is the CD of the Heli Meet, and David Dewitt is the CD for his first IMAA meet. Make a point to get in touch with these two guys and offer them your help in any way you can. It is always good to have more help than you need, and that will lessen the work for everyone who does help. I know that ya'll are very good about helping out with events, and I am sure we can all pull together for these two also.

One a parting note, I have one concern. I know a lot of you fly during the week, and let those of us who work have the weekend to ourselves. WHY? I have yet to see the sky so busy on the weekends that some more people would be in the way! Come out, bring your planes, and join in the party! I know that I don't have second thoughts about flying during the weekdays when I get a chance. I would hate to think that our club was divided by weekday/weekend flyers. I promise I won't pile any big planes into yours! See ya'll at the field...

The Imperial Radio Control Club
is proud to host:
TOPGUN
April 27 – May 4, 2004



An election ballot for 2004 officers and director is enclosed in this newsletter (that goes to our members). Please remember to exercise your right and responsibility to vote. If you mail your ballot, mail it early. If you want to bring it to the meeting, don't forget to show up at the meeting. Your club needs your participation !!!!!!!!

2004 Membership Renewals will be due soon and are now payable. Even if you do not have your new (2004) AMA Card, you can renew your membership, and save the worry of doing it later. All renewals are submitted to Dave DeWitt – Treasurer. Once you receive your new AMA card and provide a copy to Dave, he will forward your new 2004 IRCC Membership Card to you. You must have your 2004 IRCC card, and 2004 AMA card to fly after December 31, 2003. That's the deadline. So save yourself some time and trouble, and start with the renewal process today.

For your convenience, a 2004 Membership Renewal form is enclosed in this newsletter.

The Imperial R/C Club presents:

MULLBERRY 2003

Heli Spectacular

November 1st & 2nd, 2003

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The **Propwash** is published monthly by the Imperial Radio Control Club, Inc.

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*Courtesy and
common sense
makes R/C modeling
fun for everyone.*

Mowing is

a priority!!!

When the field is being mowed, Bunk has the right of way. Don't fly over or near him. He has the authority to close the field if he feels that he is unsafe.

Regular Club Meeting Minutes October 2, 2003

Meeting was called to order at 7: 40 PM EDT

The minutes from the prior meeting were accepted.

The treasurer's report was accepted.

We had one guest Robert Stinger (he later in the evening became a member)

Field Maintenance: The door on the

"port a jon" does not close when the facility is not in use thus permitting wildlife to also use the facility. David DeWitt will contact Anderson Rentals to have a stronger spring put on the door.

Safety Report: None

Instructors Report: Bob DeMont has passed pilot training and now is a pilot: Congratulations Bob!

Newsletter Report: The club passed a motion by Wally Sundry to spend up to \$ 700.00 on software that will better enable us to manage our website and include newsletter.

Website Report: Scott is trying to work with the old vendor, if that does not work out we will be forced to seek another vendor. (Host for Website)

Events: Doug Bruns spoke about the Heli meet to be held November 1 & 2. Various assignments were made. Club members need to help with this event as we only have one or two large events a year. David DeWitt discussed the December IMAA event and everything is on schedule.

Old business: Work day is October 4, 2003 at sunrise: The club authorized \$ 400.00 for sign improvements.

New business: President Scott Smith reported for the nominating committee the club officer nominations for the year 2004:

President: Scott Smith

Vice President: Jim Urick

Treasurer: David DeWitt

Secretary: Dee Miller

Board Seat: Charlie Patterson

(Three year term):

The club first aid kit needs maintenance: Scott and Jim will look into this.

Sportsmanship Award: October: Arnold Schmidt; for efforts as an instructor, and generally being helpful to other members. November: Doug Bruns; for being the most successful CD the IRCC has had in the last 10 years, while maintaining a sense of humor.

Motion to adjourn: A motion to close was made at 9:00 PM EDT.

Fast Charging Will it harm my packs?

This is an excerpt from a form that is hosted by Red Schofield on RCU. I hope you will find it interesting.

First, let's define "fast charge". The industry standard is any charge rate that will charge the cells in 1 hour or less.

This fast charge capability thing is very interesting. Almost all ni-cds manufactured today for R/C systems can accept fast charge (up to C rate, that's the rate at which you can charge the cells in approximately one hour). Cells that are specifically sold as fast chargeable go through another step in the process. This step involves charging a sample from the production lot and then measuring the end of charge voltage. Cells with the highest end of charge voltage are then analyzed for internal pressure. If the internal pressure is acceptable, that is not above a preset limit, the whole production lot is "blessed" as being fast chargeable. Of course this adds a finite amount of cost to the cell as they must be "formed" prior to being ship in order to be fast chargeable.

Cells not destined for fast charge applications are shipped "unformed" by some manufacturers. Forming the cell is the process of the first charge after it is assembled. Nothing more nothing less. When you charge your R/C system packs for the first time you are "forming" them. This is why you see the instructions telling the packs for 16 to 24 hours before you first use the system. Some manufacturers ship all their cells in the formed condition as part of their manufacturing process. So in most instances you are safe fast charging the R/C packs (transmitter or receiver) on the market if you first make sure they get a good first cycle formation

The IRCC monthly club meeting will be held at Frank Tiano Enterprises near the Lakeland Airport. The meeting will be on Thursday November 6th, and starts promptly at 7:30pm. Bring a chair (if you want to have a seat).

charge - 24 hours at the slow rate. Where the problems arise is that some of the fast charge systems available are a little sloppy when it comes to terminating the fast charge, or they are pushing the cells too hard (higher than the C rate charge) and then damage occurs. As a rule of thumb if you packs are not getting hot (slightly warm is OK) you are not damaging them in the fast charge process. When pushing too much current into cells not designed to accept it there is the risk of driving the cells above 1.6 volts (the hydrogen over voltage point) and electrolyzing the water in the electrolyte and generating hydrogen. This is a cumulative event and repeated fast charge at these rates will result in sufficient accumulation of hydrogen to cause the cells to vent. When they do vent there is a chance that the chemical balance will be disturbed and the cell capacity will fade. Understand that the pack may not be fully charged when the fast charge terminates. It is a good practice, if you are going to fast charge frequently, to top off the packs using the slow charger. This will bring all cells to the same state of charge and "balance" the pack. Otherwise the cell that is not fully charged will be the limiting cell on the next discharge. This continues until there is a major unbalance in the pack and one cell can be driven into reverse (if you don't crash first).you to charge

POLYURETHANE GLUES

*By: Jim Nunnallee
Former Club President*

Polyurethane glues were developed several years ago in Europe as non-fuming alternative to epoxies. The glues have not had much publicity with regard to R/C model building, however they possess many useful properties. They are available from many woodworking mail-order houses, and are now finding their way into various lumber/home supply/ tool super stores. They go under brand names such as: Gorilla Glue, Titebond Polyurethane Glue, Excel, Elmers Pro Bond Polyurethane, and others. More brands seem to be appearing with time.

These glues have a consistency similar to epoxy during application, with some variation in viscosity. The polyurethane glues have little if any discernable odor. They are single component glues which are catalyzed for curing by moisture or humidity in the atmosphere.

Polyurethane glue is comparable in cost to epoxy, however, it needs to be applied to only one of the surfaces to be joined. Compared to epoxy, a little bit goes a very long way, and there is no waste. Like epoxies, polyurethane glues produce very strong bonds with many materials; and for the model builder, they work very well with balsa, hardwoods and metals, and they are very effective on polystyrene foam. They are waterproof, and highly fuel resistant. Basically, once cured, they cannot be attacked by most solvents used in model plane building. The glue bond they produce is very tough and somewhat flexible. Best of all, these glues sand easy so cleanup of external seams is easy. leaving no significant glue ridge.

The polyurethane glues are not appropriate for quick assembly, but are very useful when some adjustment of the members to be joined is needed. Gorilla Glue has a 20-minute working time. Clamping (or pinning) is required for two-to-four hours. In the humidity of a normal Eastern U.S. environment, about 2 hours will suffice.

During the curing process, some foaming of the glue occurs. This drives the glue into the wood pores, and makes it easy to achieve exceptionally strong bonds with small quantities of glue, for example in laminating sheets. It is necessary only to spread the glue thinly on one side to be joined. The glue then forces itself into the pores of both surfaces and achieves a strong and light weight bond. It is not dependent on capillarity to achieve penetration. The foaming action does fill gaps. However, it remains important to get good joint fits for maximum strength. Gorilla Glue claims that gaps up to 0.1 mm can be tolerated without loss in joint strength. The foaming also results in some squeeze-out of glue at the edges. That glue which squeezes out of the joint during curing can be cleaned up easily by scraping or sanding. Usually, the sanding required is light, and the joint can be cleaned up without gouging or causing a projecting glue joint above the surrounding balsa. However, some forethought is advisable. It's best to select another glue if a clean joint is required and sanding or scraping is not possible (for example in hinge installation).

November Meeting Agenda

Elections

We will count the votes.

Wrap up the "Heli" Meet

We will discuss the event.

The Winter IRCC / IMAA Meet

We will continue our planning.

2004

What's going on next year.

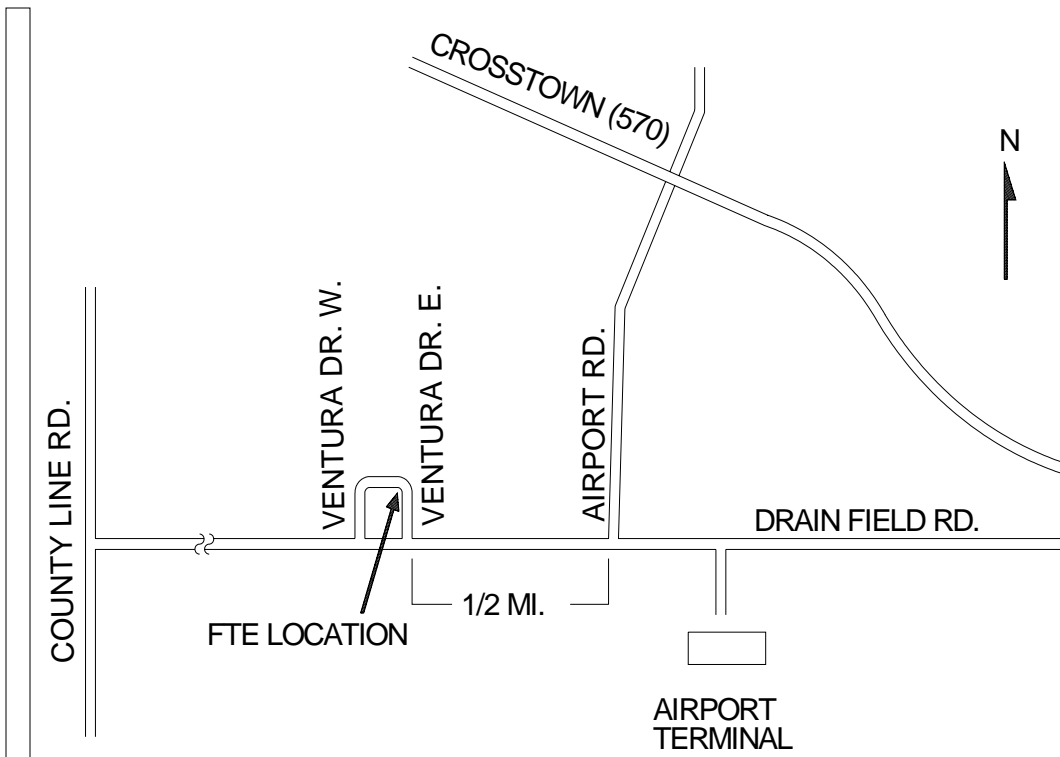
Who's building what ?

Bring your latest creation and show the other members what you are doing.

Field Maintenance

We will review our maintenance day activities.

If you have a topic for discussion let Scot Smith know so he can put it on the agenda.



There is a vacant lot across the street from FTE which is a good place to park. There is also another facility just to the west of FTE which has a parking. Please **DO NOT PARK ON THE GRASS** at FTE or his neighbors.

Coming Area Events

IRCC Helicopter Meet

November 1-2

Doug Bruns

863-299-8863

DBruns6549@cs.com

Florida International Jet Rally

November 7 - 9

Lake Wales Airport

www.phonecsi.com/fjfweb

IRCC Winter IMAA Meet

December 6 - 7

Dave DeWitt

863-644-3815

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2004

Florida Jets

March 4 - 7

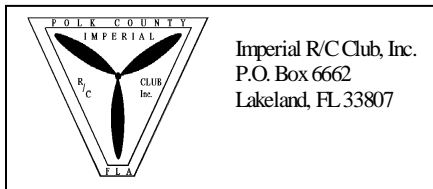
Lakeland Linder Airport

FrankTiano.com

MacDill AirFest

April 3 - 4

MacDill AFB, Tampa



Don't forget the stamp

OUR NEXT MEETING IS: November 6th

Check out the directions to our new meeting place.