

# PLANE RAP

AMA Charter Club #128  
<http://www.1hss.org>

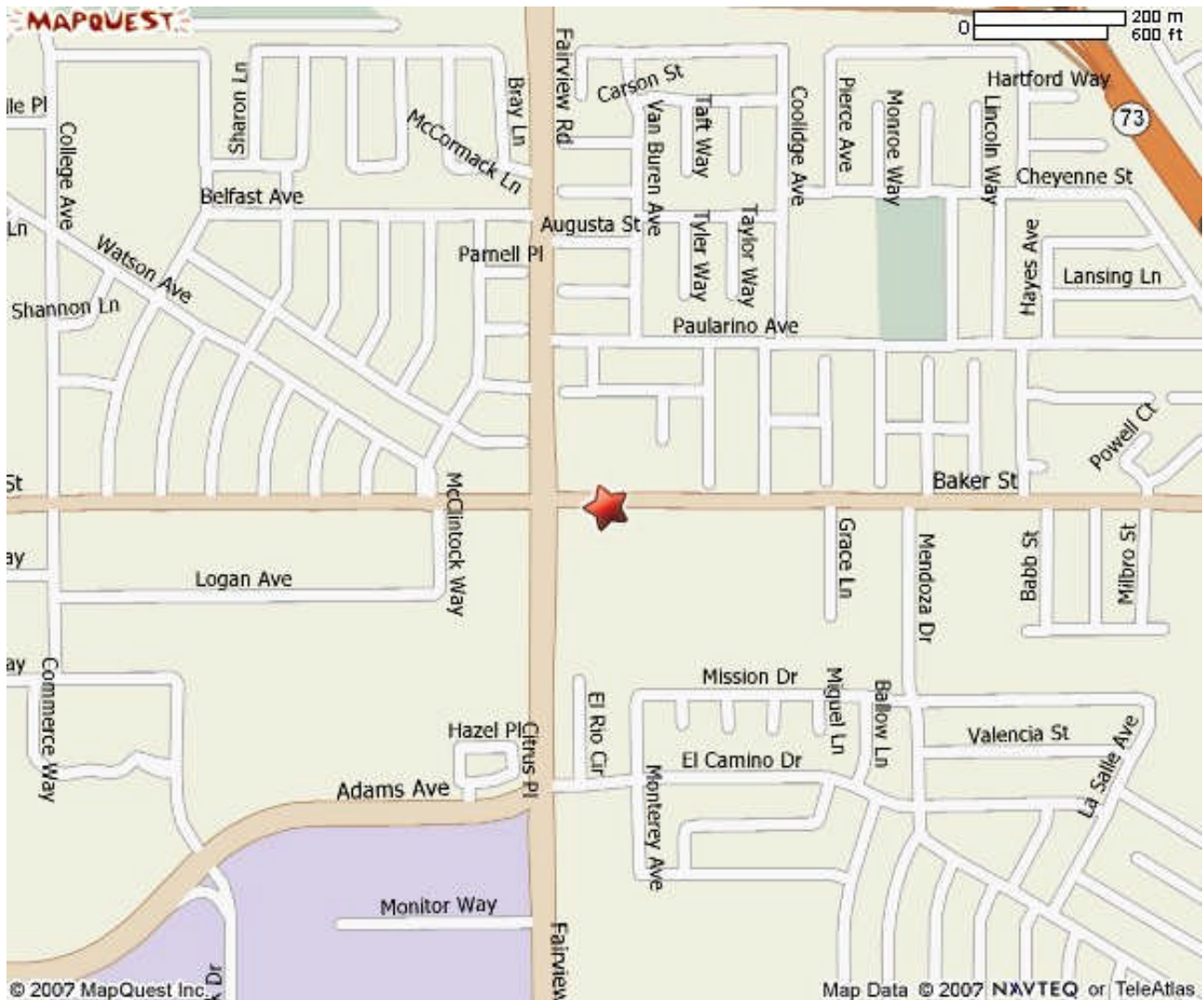


HSS is the oldest AMA chartered R/C Soaring Club in the USA

**FEBRUARY, 2008**

**VOLUME 44**

The Club meeting will be Thursday February 7th, 2008, 6:30 pm at Round Table Pizza  
1175 Baker St. Costa Mesa. Bring your wife, family friends, etc.



Interesting Stuff & Links

ELECTRIC MOTOR DRIVE MAGNETS

A permanent magnet alloy being developed by scientists at the U.S. Department of Energy's Laboratory in Ames, Iowa, promises high-temperature performance for next-generation drive motors for electric vehicles. The alloy retains much of its magnetic strength at 200 degrees C to help make electric drive motors more efficient and cost-effective.

According to Ames senior metallurgist and Iowa State University adjunct professor Iver Anderson, current-generation magnets lose much of their magnetic energy at fairly modest temperatures and operate at half of their power once they reach 100 to 125 degrees C. He explained that the most desirable permanent-magnet materials are neodymium-iron-boron magnet materials based on a 2-14-1 crystal structure. "Our challenge was to design a high-performance 2-14-1 permanent magnet alloy that would operate with good magnetic strength at 200 degrees C," said Anderson.

The alloy developed by the Ames scientists uses a mixed rare earth composition. "We used a combination of neodymium, yttrium and dysprosium because they all form 2-14-1 crystal structures," said Anderson. "Together they have much less degradation of their magnetic properties with temperature due to the influence of the yttrium and dysprosium. The alloy lends itself to injection molding, making it economically feasible for mass-producing electric drive motors.

Visit <http://link.abpi.net/l.php?20080115A3> to learn more.

The US F3J Soaring Team will be competing in the world championships June 30-July 5th, 2008 in Turkey, with HSS member, Ben Clerx, as one of the senior pilots. The team is selling raffle tickets and merchandise to help fund the trip. Please check out their website ([USF3JTeam.com](http://USF3JTeam.com)) for pilot biographies (3 senior pilots, 3 junior pilots and 1 2006 returning junior world champion), merchandise and raffle tickets. The plan is for the website to also report daily contest results. The team appreciates your support in their quest to bring home the gold.

Thanks Ben Clerx

Interesting link!!!!

[http://www.codeonemagazine.com/test/archives/2007/articles/jan\\_07/cockpits/cockpits.html](http://www.codeonemagazine.com/test/archives/2007/articles/jan_07/cockpits/cockpits.html)

For those of you who have a FUTABA FASST SYSTEM heads up check out this website and their advisory:

<http://2.4gigahertz.com/techsupport/service-advisory-tm7-7c-6ex.html>



**Club Business**

This is an e-mail that I received from the City. Just a heads up we all need to make sure we have a City permit and are wearing it when we are flying our model air craft. The Park Ranger will be checking!

Hi Matt,

A gentleman came in today to complain about the guys who fly most mornings before 8am at Fairview Park. He said that many of them fly the bigger planes and never get a permit to fly. I thought I would pass along this information to you to share with your team. This is the 3<sup>rd</sup> or 4<sup>th</sup> time I have heard this complaint from the other guys who fly the model airplanes out there. Please pass along this information. Thanks for anything you can do to issue citations.

*Ruth*

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*We create community through people, parks and programs.*

**HSS - City of Costa Mesa Meeting**

Jim Hanson, HSS President and John Anderson, HSS General Director, at their request, met with Robert Staples, Fairview Park Director on January 16, 2008 to review the previous year and consider the new year as regards flying at Fairview Park.

The meeting began by responding to the City's request for aerial photos of the vernal ponds by providing (in disk and e-mail formats) some excellent aerial photos supplied by Jim Ward (thanks Jim!) and Jim Hanson (thank you too!).

As regards the vernal ponds, in late January, the City will be reviewing their contractor's design plans for the vernal pond restoration program. HSS has requested and will be granted the opportunity to review these plans. No direct impact is anticipated on the flying activities. However, this project may provide an opportunity to further improve and possibly expand (widen) the runway area.

HSS's plans for field maintenance were discussed - including the club's potential acquisition and use of an adjustable



scraper. John Anderson suggested that HSS consider application for an AMA grant for the needed equipment (must submit by March).

Jim Hanson noted that there appeared to be some confusion and difficulties regarding obtaining City-issued pilot permits on Saturday. Robert Staples is following up on that issue.

Jim further noted that there continues to be a potential safety issue - with classes from adjacent Waldorf school crossing the field despite communication in that regard from both HSS and the City. Robert Staples will follow up.

Jim noted that the wind sock has been raised (mounted temporarily near the kiosk). Jim will work with Robert Staples to possibly provide additional support banding now and relocation to another area later - possibly collocated with the new frequency board due to be available in May.

Jim and John introduced possible insurance and administrative concerns arising from AMA's new Park Flyer Program. Robert Staples will review the provided materials and advise us as to the City's position. The AMA program would still provide the needed amount of insurance; but there are some questions as to its applicability and enforcement which need to be considered.

HSS club meeting days/dates were discussed as regards the use of the City room; but no change has been made as yet.

John noted that the HSS Fun Fly was scheduled for April 20<sup>th</sup> and invited Robert (and other City folks) to join us. Unfortunately Robert will be in Hawaii; but has expressed interest in John's suggestion for a "City Appreciation Day"- perhaps in May. The City will also be looking for HSS support for the "Paws in the Park" program June 7<sup>th</sup> in Fairview Park (we should definitely help out - more on this later).

The meeting concluded with the shared feeling that despite a very few relatively minor "issues" ; 2007 was a fine year for flying - without major incident; and we will look forward to working together for an even better 2008.

### **Minutes of the Harbor Soaring Society January 9, 2008**

Officers present: Jim Hanson-President; Karl Hawley-Vice President; John Anderson-General Director

The business meeting was short; most business having been conducted at the previous special board meeting on January 4th (see "HSS Special Board Meeting" in this newsletter).

Jim Hanson highlighted a few points from that board meeting and noted that he and John Anderson were to meet with Robert Staples, Fairview Park Administrator in the near future to review various points including the AMA Park Flyer Program - as it may affect the City Permit Program (see "HSS-CITY Meeting" in this newsletter).

Karl reported on his planning for an HSS Fun Fly on April 20th. Ross Thomas discussed his planning for an RES Woody event later in Spring.

The business meeting was closed followed by a general discussion including a welcome back for Frank Colver, a returning HSS cofounder and early president. Frank showed his original HSS membership card and offered a few comments on the "early days". (Welcome back Frank, we hope to hear much more from you as regards those early days and your many interesting activities).



Jim Hanson and the general membership helped John Anderson trouble-shoot the disconcerting in-flight motor outages of his Sopwith Camel - using his newly purchased watt meter. The demonstration found that indeed the defective flight pack battery was performing poorly under load. A spirited discussion of battery selection followed with everyone offering opinions and recommendations.

Jim Hanson then proceeded with a well-received demonstration of various standard and special soldering techniques as applicable to projects ranging from battery packs to landing gear assemblies.

Dennis Anderson offered yet another of his fine show-and-tells, this month's subject being his new Hanger 9 Curtis P-40 having a 64.6" span; 9.5 pound flying weight; e-flite 60 power/Thunder Power 4500 maH 6SX battery (960 watts); and Century Jet retracts.

Apparently inspired, other members expressed interest in bringing their special projects for subsequent show-and-tells. (Stay tuned!).



Dennis Anderson with his Curtis P-40.



Karl, John, & Jim test John's Sopwith Camel battery.

**Model Class Tackles "Triphibian"**

Our General Director, John Anderson, is a volunteer instructor for the Sea Scout youth aviation class each Wednesday at the Newport Beach Sea Scout Base. Currently, the 8-member class is finishing their work on the challenging subject of an e-powered free-flight "Triphibian" - a land/sea/air vehicle. As of this writing they have successfully finished test-gliding their various original (and somewhat unique) designs and are now doing the final component installation/wiring. Their projects should be completed in late January/early February - at which point the students will present their research, design documentation, and flying models to staff, parents, interested HSS members - and hopefully the local developer of a new full-sized air-car now flying. Stay tuned.

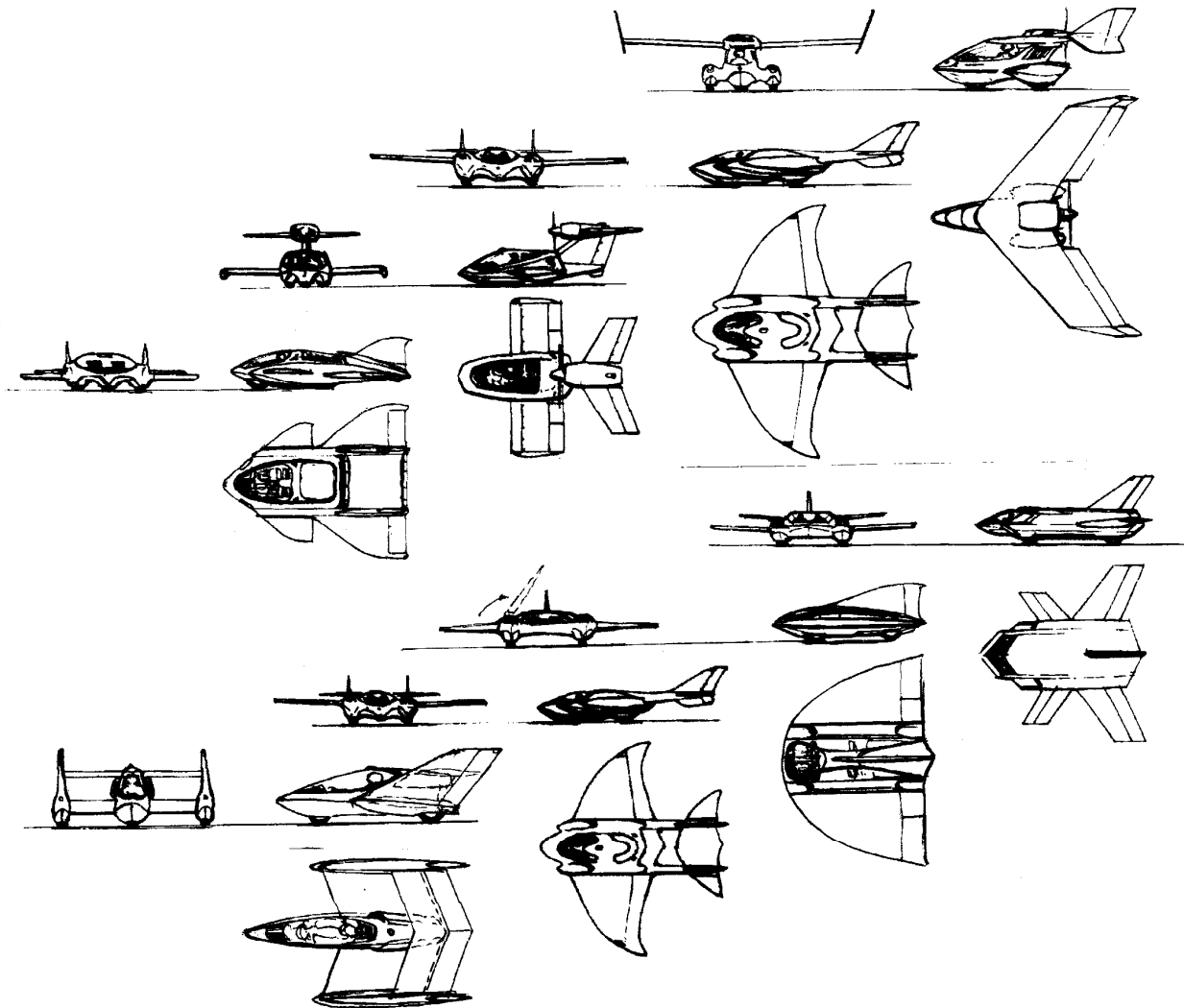
Previously in 2007, the students have successfully tackled a variety of design/build/fly projects including simple models of "space planes"; "fire-fighting aircraft"; and even Halloween-themed catapult gliders (bats, witches, and "pumpkins"-which flew great!).

On occasion some of the students visit the field to get acquainted with the "real world" of modeling and get experience with RC orientation flights - thanks to Karl Hawley and Ted Broberg of our Training Committee. Please help us make these kids feel welcome and encourage their modeling efforts - they're the future!



SAMPLE PRELIMINARY "TRIPHIBIAN" DESIGNS

Final models are e-powered, profile-foam, free-flights with sponge nose-guards...for indoor flight testing!



**Club Meetings**

Karl Hawly is looking for anyone who is willing to speak, do a show and tell, or a how to demonstration, on any topics related to our hobby, at one of our club meetings. Any persons interested contact Karl Hawley at (949) 574-9379 or talk to him at the flying field.

**Classified Ads**

**If you wish to place a free ad in our news letter contact our editor Gary Gullikson! See list of Club officers.**

Tim Beegan, HSS Member: Do you have a need for machine work? I can do small parts for R/C planes. Call me at (949) 646-6285 or see me at the field for consulting.



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