



THE RAMS HORN

The Official Newsletter of the Rainbow Aero Modelers Society
Metro Milwaukee Area Franklin, WI Founded Nov. 6, 1980

AMA—Academy of Model Aeronautics Club #1264, Operating for Public Benefit, Milwaukee County RC Flying Field, S.70 & W. Oakwood Rd.

Next Meeting: Wednesday, January 7, 2009

WaterStone Savings Bank, 6560 S. 27th Street, 7PM
(formerly Wauwatosa Savings Bank)

Volume 30 – Number 1, January, 2009

PRESIDENT'S REPORT by *Tom Ryan*

Nominations. At the January meeting we'll be nominating officers. If you've ever wanted to be an officer of the RAMS, work with the board or have your voice heard, now's the time and here's your chance. Be there and nominate your candidate or be a candidate yourself Join in, make a difference.

The Economy! The economy has put a big hurt on many of us and there doesn't seem to be any relief in sight. Having said that, there is one bright spot to this mess were all in, and that's this: when the econ-omy goes bad, as a rule, many turn to their hobbies as a way of finding some stress relief. Many air-planes that were sitting and gathering dust may now find their way to the field and find a renewed life.

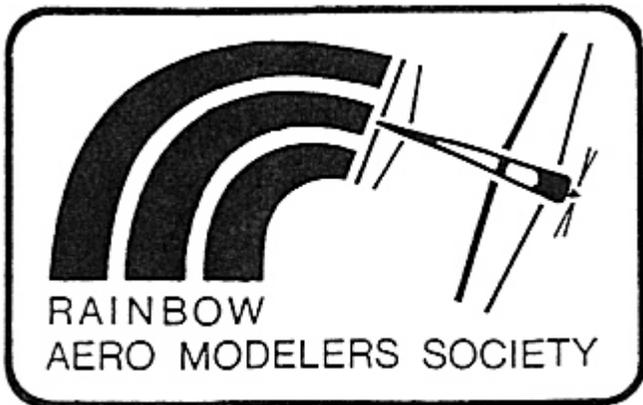
Instructor Training Done. We have our instructor core established, and their names will be announced at our January meeting. Added to the instructor list is a "Check Pilot." He will be working with those who fly large scale aircraft, and those wanting to. Details will be reviewed at the January meeting.

Get Involved! As winter looms over us, we start our planning for spring and summer activities now,

as well as our fall picnic. We do this early so as not to find ourselves scrambling at the last sec-ond to get things done. Our July Fly-In needs people working on it now, so that we'll know month by month just how far we've progressed and what's needed to be completed for the event. To make it a success we'll need our members to get involved and volunteer to help out. As I write this column, there are committees working for you on getting the club By-laws and rules defined and updated. A lot of club business goes on during the winter and you'd be surprised at all the work (*long hours*) that go into making the club run smooth. My thanks to those who are on these committees and spend their valuable personal time on club business. We all benefit from their team effort. Thanks again.

Personal Comment! The December meeting was a huge success. It was great seeing everyone having fun and enjoying each other's company. The awards were fun and we all had a sense that this "*Awards Night*" should continue on as a RAMS Club tradition. I hope it does! I'd like to thank everyone who made our 2008 season a success, and I hope the 2009 flying season will even be better. Here's wishing us all a very HAPPY NEW YEAR.

Pilot Profile this issue: Tom DeNoble
(Read 45 past profiles at www.rcslot.com/rams)



Founded Nov 6, 1980 Club #1264 Academy of Model Aeronautics

PRESIDENT

Tom Ryan, cell 414-881-0070
 PO Box 1111 tomcat@execpc.com
 Milwaukee, WI 53201-1111

VICE PRESIDENT

Jeff Borowski 414-483-4377
 3619 E. Munkwitz Avenue
 Cudahy, WI 53110 flyinfool1@yahoo.com

SECRETARY

Craig R. Manka 262-681-9169
 7025 Lamberton Road
 Racine, WI 53402 craigrmanka@att.net

TREASURER

Craig R. Manka, 262-681-9169
 7025 Lamberton Road
 Racine, WI 53403 craigrmanka@att.net

SAFETY COORDINATOR

Marvin Anderson 414-535-0764
 7511 W. Congress Street manderson@wi.rr.com
 Milwaukee, WI 53218-5447

DIRECTOR

William Flannery 414-423-0914
 6008 W. Glen Court
 Franklin, WI 53132 w.t.flannery@worldnet.att.net

DIRECTOR

Michael Lutzenberger 414-483-8038
 3518 S 4th Street
 Milwaukee, WI 532-7 mjplutz@ameritech.net

EDITOR-LIBRARIAN

Russell Knetzger 414-962-0637
 2625 E. Shorewood Blvd.
 Shorewood, WI 53211-2457 rknetzger@execpc.com

RC ASSOCIATION DELEGATE #1

Robert Kabella, 414-282-1145
 4725 S. 35th Street
 Greenfield, WI 53221 rckaboo@yahoo.com

RC ASSOCIATION DELEGATE #2

Kenneth Huber, 414-744-8374
 3262 S. Kinnickinnick Ave. kennethahuber@netzero.com
 Milwaukee, WI 53207

FIELD MAINTENANCE

Bob Kabella, cell.414-331-4725
 4725 S. 35th Street
 Greenfield, WI 53221 rckaboo@yahoo.com

FIELD LICENSE ISSUER

James Hatzenbeller, 414-483-1246
 4388 S. Pennsylvania Avenue
 St. Francis, WI 53235 jimhatzy@aol.com

MEETINGS-7PM

First Wednesdays
 *WaterStone Sav.Bk
 6560 S. 27 Street

Membership Dues
 are \$20 per year;
 except \$10 per year
 for ages under 18,
 disabled, or after.
 September 1 ea. yr.

Dues paid after
 April 1. add \$1.00
 Dues paid after
 May 1, add \$2.00
 Membership ends
 June 1 if not paid

Terms of Office
 and Dues Year
 Mar. 1 - Feb. 28

All Flight Instruction is Without a Fee. WATCH THIS SPACE in the February, 2009 issue for updating the lists of flight instructors, following the November, 2008 Flight Instructors Training sessions organized by RAMS President Tom Ryan.

Photos:December Awards Night



Above:Chuck Bucci holding cake ordered by Tom Ryan to celebrate the 1st Annual RAMS Awards Night.

Above: Two of several more food tables in the back of



the room below the kitchen service counter, showing crock pot warmer of sloppy-joe style hamburger meat (continued on page 3)

- Visitors at Meetings or the Field Always Welcome -

*(Awards Night, continued from page 2.)
mixed with beans, called "Calico Beans" prepared by
Andrea Bucci, and in front, one of the three trays of
Cousins Sub sandwiches donated by the SWARM Club.*



Above: Members enjoying the last of their meal before cake—(l.-rt.) Rich. Kegel, Mark Meyrose, Steve Navone, Marty Gscheidmeier; Background: Mike Lutzenberger, and John Spindler.

Happenings at the Meeting

RAMS Club, December 3, 2008

by Russell Knetzger, Editor & Librarian

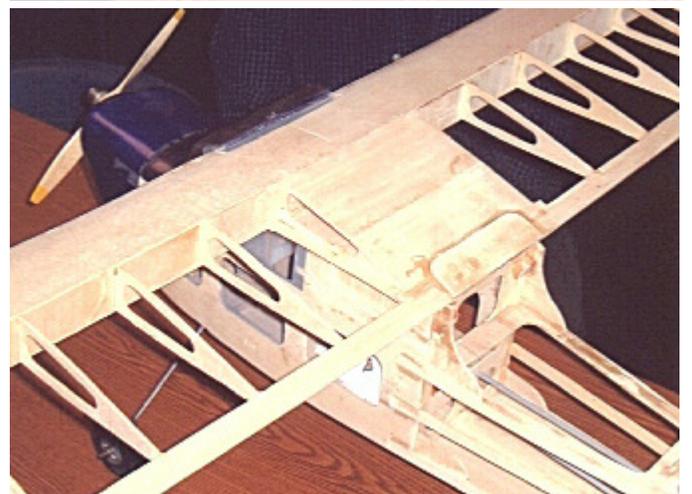
The club almost tied its 41 member attendance record set at its November meeting, with 39 of 83 members present for Awards Night. A brief business meeting followed by the Awards portion took 20 minutes, and the rest of the evening was fellowship, with food, drink, and showing of models.

Business information included the usual club and field treasury figures. First-aid kits for all instructors will be club-funded; a Saturday December 13th meeting at Greenfield News & Hobby will review the RAMS By-Laws; the updated Instructors List will be announced at the January meeting; also in January members are encouraged to bring models to show or stuff to sell; a motion was passed to donate from the Field Fund \$25 to Hunger Task Force and to a battered women's shelter supported by the club in the past.

Special Door Prizes and personal Awards given at the meeting were donated by Tom Ryan, and included in lieu of the usual raffle a Skyraider ARF with a .46 SuperTigre engine won by **Marv Bishop**. Each attendee got a free ticket to win the door prize.

This is not a complete list of Awards given, but comes close: Mike Jankowski for his providing of CPR training for club members; Mike Lutzenberger won the President's Award; Chuck Bucci and Dale Champagne won humorous awards titled "Dumb-Ass;" Jack Spindler was honored for leading the September Club Picnic event; Bob Maciejewski was recognized for his extra efforts in cleaning up after the 100-Year Flood of June 6-7-8, 2008; and also receiving awards (many of them classy initialed key chains) were Don Finney, Bill Flannery, Marty Gscheidmeier, Russell Knetzger, & Russ Schneider.

Models at the Meeting



Above: Steve Ward restoring a notch-back scale Great Planes kit Taylorcraft 58 in. span, 497 sq.in. wing area, .19-.25 engine now .40. ("Models" cont. on page 4.)

(“Models at the Meeting” cont.)



Photos: Marv Anderson standing behind Mike Lutzenberger, and the \$125 ARF model Marv setup for Mike, an aerobatic “Zipper” by Nitro Planes, 56” span, .52 cu.in Evolution engine, push-pull rudder controls.



Bearded pilot reflects Mike’s no shave period, now apparently over.

By-Laws Committee Meets

by Russell Knetzger, Editor-Librarian

On Saturday morning December 13th for two hours in Greenfield News & Hobby store’s club room, a dozen club officers and interested members met to review the by-laws. They were Tom Ryan, Craig Manka, Jeff Borowski, Alan Borowski, Don Finney, Bill Flannery, Mike Lutzenberger, Jack Spindler, Bob Kabella, Chuck Bucci, Mark Meyrose, Robert Ehlers, Darrell Hossalla and Russell Knetzger. Only Marv Anderson, RAMS Safety Officer, was unable to attend.

Craig Manka read the entire existing 9 pages of the by-laws without interruption. This gave everyone an equal knowledge of the by-laws. Similarly the field rules were read, because they are by extension a part of the by-laws. Following the readings, members nominated about 20 subjects to be revisited. To do that a smaller committee of volunteers was created: Marv Anderson and Chuck Bucci as safety officers, Al Borowski as chairman, Bob Ehlers and Don Finney.

This committee will report their recommendations at the January meeting, and the February newsletter will provide the changes to be voted on in February. Copies of the approved by-laws will then be supplied when membership cards go out for the 2009 flying season. New members will get copies when they join.

GREENFIELD NEWS & HOBBY

12,000 SQ. FT. OF HOBBIES

FINE ARTS • DOLLHOUSE • CLASSES • KITES
RADIO CONTROL SPECIALISTS • ROCKETS • TRAINS
HUGE SELECTION OF MAGAZINES

6815 W. Layton Ave. • Greenfield, WI 53220
(414) 281-1800 Fax: (414) 281-1440
www.greenfieldhobby.com

<p>Keith Kittoe President</p> <p>RCSLOT 5012 W. Ashland Way, Rear Franklin, WI 53132</p> <p>Phone: (414) 421-3305 Fax: (866) 354-9968 RCSLOT.com keith@rcslot.com</p> <p>Best Products! Great Prices! Reliable Worldwide Shipping!</p>	
--	---

Pilot Profile: Tom DeNoble

by Russell Knetzger

Dane County until recently was Tom DeNoble's birthplace and life, from early elementary school in Mazomanie, and the rest of grade school, high school and technical college in Madison, WI, to his toolmaker apprenticeship with *Placon Corporation*, also in Madison. At Placon for ten years, Tom became absorbed into the world of sheet plastic molding, from "blister packs" we see hanging on retail racks, to parts for the medical field.

Now he is focused on Franklin, WI, living at S. 40th & Rawson, working in the Franklin Industrial Park near 51st & Ryan with **Premier Plastics**, which is viewable from this club's County field on Oakwood Rd. Tom, 51, joined the RAMS this Fall. His work still entails molding items from plastic sheet stock, but now the gauge goes from clear 16th inch stock to opaque items 1/2 inch thick, such as for medical machine housings, and overseas shipping straps for crated new Harley Davidson motor cycles.



Above: Tom DeNoble with a Carl Goldberg Falcon 56 built "upside down" by his late father, Hart DeNoble, in 1971 as a .35 powered low winger, in Madison, WI. Tom is set to restore it. Background: wall to wall, floor to ceiling collection of unbuilt kits of diverse R/C aircraft, some bought recently on eBay.



Above: Tom DeNoble with his Australian markings ARF Seagull PC-9, about 6 lbs, 55 inch span. Tom this fall was flying his .46 powered Sig Kadet to acclimate to our field.

Tom is used to flying at public R/C fields, including Madison's landfill site east of the City on USH 18, and in his boyhood with rubber power on the fields of Memorial High School on Madison's west side. Those included Comet, Sterling, and Guilow's kits, encouraged by his father, a free flighter from the late 1920's. Tom also did control line flying in the early 1960s. The advance to R/C came with a rudder only conversion to R/C of father Hart's "Wanderer," a kit made by Eagle Aircraft Co. in Brooklyn, NY, on which Tom soloed. When the Kraft proportional R/C radio system came out in 1968, Tom advanced to the Falcon 56, and then the VK Cherokee, a respected plane at our field with older pilots. Tom has a full VK kit.

Tom's daughter, Nicole, a graduate of Edge-wood High School in Madison, can't witness Tom's flying because she now lives on Oahu in Hawaii, but wife Deborah sees Tom's in-home aspects.

RAMS Horn, January 2009, Russell Knetzger, Editor
Rainbow Aero Modelers Society, Franklin, Wisconsin

Electric Flight News - XIII

by Dennis Vollrath, Editor, "The Flightline" - Sept., 2008
Racine R/C Club, Inc., Racine, Wisconsin - Reprinted in the
RAMS HORN, Russell Knetzger, Editor, Franklin, WI

HIGH POWERED ELECTRICS (cont.)

More than a few club members have had questions on just how to charge the larger capacity receiver batteries that are getting rather common on the bigger models. Just a note here, you should NOT be using the typical 600 MaHr batteries on the larger models, especially the gasoline powered units.

As mentioned in previous newsletters, appropriate batteries for the larger models should have something like 2000 MaHr or more capacity, due to the larger number of servos used, plus higher dynamic loads on these same servos. That said, you should not be charging these 2000 MaHr plus cells with the original radio chargers.

All of the Nicad and Nickel Hydride cells are designed to be charged by a constant current charger, different from the Lipo's, Al23 and lead acid batteries. We will get to them next issue. Just what is a constant current charger? Just what it says, it simply applies a fairly constant charging current to the battery under charge, regardless of the voltage on the **4 cell** battery while it charges up. The wall plug type of chargers shipped with our radios are a constant current charger. If these constant current chargers are connected to a Nicad/NiHyd battery, they will charge at their rated charge current as long as they are plugged in, even if the battery is fully charged. This is not really a problem for the battery, since they are designed to accept a charging current until they are fully charged. After these Nicad/NiHyd cells are charged fully, the extra charging current is simply turned into heat inside the battery. By nature, these Nicad/NiHyd cells are self balancing.

(Please note that those models using 5 cell receiver batteries should NOT be using the radio's wall charger. The extra voltage on the battery will reduce the charging rate !)

The problems begin when a 50 Milliampere charger is used to charge a 2400 or 3300 or larger battery. These batteries are DESIGNED to be charged at a C/10 rate, (i.e. 10% of C=capacity) and that is how they are charged before testing by the manufacturer. A charge rate of 50 Ma would take 66 hours to fully charge a 3300 MaHr battery with the 50 Milliampere charger. That's nearly three days! Even worse, you have absolutely no guarantee that the battery ever reaches full charge, since the manufacturer doesn't test them that way.

(Just a note here, where I worked before retiring, we did use a trickle charger on the Nicad batteries for our old controls. However, this was a very special (read expensive) Nicad battery that was designed for operation from minus 40 to plus 140 degrees F, and was also designed for trickle charging.)

Now, if you do have some of these higher capacity NiCad/NiHyd batteries, you should charge them at the proper high rate. The proper high rate is the Milliampere hour capacity divided by the 10-hour charge time, or 2400/10 equals 240 milliampere. And, the 3300 MaHr cells would be charged at 330 MilliAmperes. Just be certain that you do not simply put the model directly on the trickle charger before charging it at a high rate. And, do not leave the battery on charge at a high rate for more than 10-15 hours or so.

If you want to trickle charge these batteries after they have been fully charged, a note of caution. You absolutely have to verify that your battery will hold a full charge for a period of weeks on trickle charging by performing tests on them.

Testing is simply fully charging the battery at its rated charging current, then run a discharge test with a commercial battery cyler, recharge again, and put it on your trickle charger. Wait a week or two, pull it off the trickle charger, and run another discharge test. Compare the second test to the first. If they match, you are good to go. If not, it's a warning to you, your battery doesn't like trickle charging!

Another note on this issue, some of these higher current NiCad battery chargers also have a DISCHARGE CYCLE! And, the limited LCD display information may not obviously indicate, you are *discharging* the battery when you think you are charging it. The result would be going to the flying field with a freshly DISCHARGED BATTERY! Yes, it has happened. One of our club mem-bers lost a very nice model to this phenomenon several years ago.

The current issue of the RCR magazine has one of their readers asking about poor performance on some of their name brand NiCad batteries. The columnist at RCR responded that Sanyo has run into cases where they REJECTED battery cells because of various problems, and sold these cells as scrap. Then, they found these same scrapped batteries being used in battery packs! What happened is some less than honorable battery supply house bought these scrapped batteries, and put them into their 'new packs'. Just a word to the wise, use extra caution when dealing with off brand, inexpensive batteries. It is not worth it for your models.

An AmpHour Meter

Some of our club members have probably seen my "AmpHour Meters" built into my models. This gadget has been expanded to include a LCD display that shows the total AmpHours for the flying season, total flying time for the season, the Amp Hours for the current flight, and the number of Amperes pulled by the motor. (Yes, that little MicroChip computer chip used in the project is rather busy!)

Now, added to the above,, this electronic device also reads the number of Amperes pulled by the motor and stores it every five seconds. It is read back next time the motor is powered up. The intent is to obtain some indication of just how much the current pulled by the motor changes during a flight. (Commercial devices of this sort exist, but none of them can store total flying time and total ampere-hours for the flying season.)

The results of this device were rather surprising. The current pulled from the motor battery showed a consistent drop of about 10-15% when the model airplane lifted off from the ground. What showed up next was unexpected. With the motor at full power, the current for the motor varied all over the map, depending if the model airplane was flying level, climbing or diving.

Arid, it did not take much of a dive to cut the motor current down from 57 Amps at full power to less than 20 Amps during a slight dive. In fact during a steep 45 degree dive at full power, the motor current actually dropped to zero amps ! This same effect showed up on both the 150% Electrostream and the Hanger 9 Showtime 50, both powered by Hacker A50 series motors.

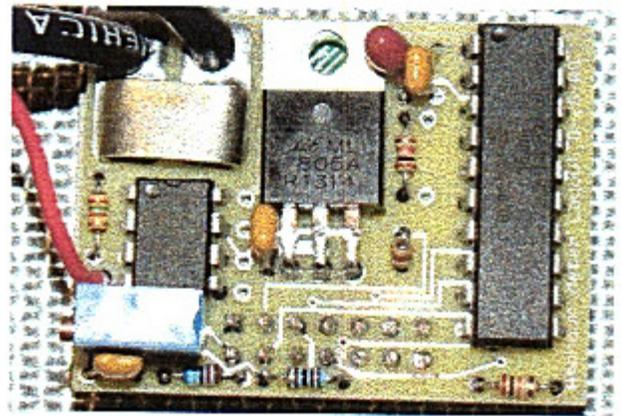
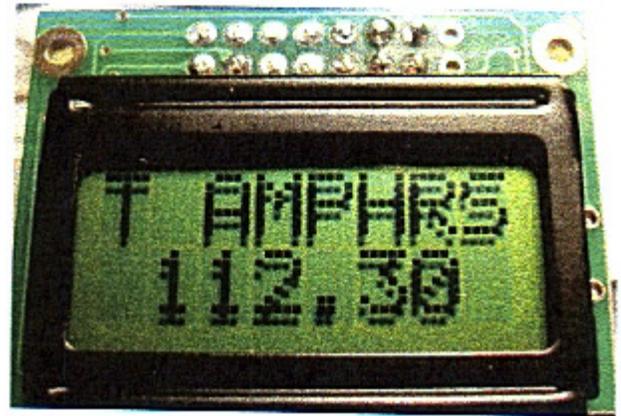
This phenomenon is one reason the proper propeller selection is so critical to high powered electric models. If you select a propeller that is capable of flying the model at 100 miles per hour, on a model that is only capable of 60 miles per hour, you are wasting battery energy.

Compare this to my Hanger 9 Showtime 50, with the Hacker A50-16S motor and associated 16x12 APCE prop. As the model approaches its maximum level flight speed of 75 miles per hour, the propeller really unloads, dropping power requirements out of the motor down to about 30 Amps at full throttle. The result is longer flying time. Interesting to note, the motor current dropped to 11 Amps on the Showtime 50 at its minimum flying speed.

Some of you may have run across JR/Sppektrum's new advertisement where they take a 46% Ultimate Bipe at the Joe Nall scale rally and fly it 9/10 of a mile away using two folks with cell phones. The model was equipped with JR's on board flight log, which showed absolutely no loss of signal during the entire flight. This same advertisement refers to the FHSS (Futaba) system

as old technology. Probably just advertising hype, but interesting to note.

Below: Dennis Vollrath's LCD AmpHour Meter. Its range is 0-51 Amps with a maximum voltage rating of 36 V-DC. The reading shows the model has used 112.30 Amp-Hrs this year. It can record up to 999 AmpHours. The 150% Electrostream now has 174 total discharge AmpHours on its batteries, with absolutely no loss of performance on the 6-S2P A123 cells to date.



PHONE	FAX (262) 554-0539
(262) 554-8884	
(262) 554-8636	
(866) 820-1732	
GARY'S	
HOBBY CENTER	
COMPLETE HOBBIES & CRAFTS FOR ALL AGES	
ART SUPPLIES FOR	
THE BEGINNER THRU THE ADVANCED ARTIST	
MON-FRI - 10:00 AM - 8:00 PM	ELMWOOD PLAZA
SATURDAY - 10:00 AM - 5:00 PM	3701 DURAND AVENUE
SUNDAY - 11:00 AM - 4:00 PM	RACINE, WISCONSIN 53405

RAMS Club Library

Rainbow Aero Modelers Society, Franklin, Wisconsin - AMA Club #1264 Current to 06-08-04

Videos

Minutes (All VHS)

Beta	Monokote I (how to do iron-on heat shrink coverings)	35	Diamonds In the Sky (AMA -All RC types)
VHS	Monokote I (2 copies)	30	The Pioneers (AMA -Pre-WWII RC efforts)
VHS	Battery Basics (nicads) by ACE R/C, Tom Runge (4 copies)	50	Those Marvelous Miniatures (AMA -Cross-section)
VHS	1991 Frequencies Explained by ACE R/C, T. Runge (4 copies)	40	Grand Illusions (AMA All scale types)
VHS	AMA Today (overall summary of Academy functions) 20 min.	25	All Because of Model Airplanes (AMA-Impact of Modeling)
VHS	AMA Working For You	30	Worldly Flights of Indoor (AMA-Indoor championships)
		50	Judging & Flying Precision R/C Aerobatics(AMA-FAI)

Books

R/C Aerobatics for the Sport Flyer by Russell Knetzger, 1983, 28 pages
Oakwood Rd. Field History, by Russell Knetzger, 1992, 27 pages
RCM Flight Training Course, by Don Dewey, 1972 (building, engines, tank and radio installation, initial flying)(very complete) 240 pages
RCM The R/C Engine, by Clarence Lee, Vol.I, 1971, 62 pages
RCM The R/C Engine, by Clarence Lee, Vol.II, 1974, 150 pages
RCM Scale In Hand by Dave Platt, 1973, 62 pages
Model Four-Stroke Engines, by Peter Chinn, 1986, 130 pages
Four Stroke Handbook, by Bill Burkenshaw, 1986, 112 pages
Complete Guide: OS Model Four Strokes, by Graham Rice, 1987, 48 pages
OS Engines Exploded Views (part numbers) , 1988 approx. 80 pages
Sound and Model Aeronautics by Howard Crispin, circa 1990, 145 pages
Guide to Air Brushing, by Carl Caioti, 1978 (Badger Air Brush), 32 pages
Air Brushing Techniques, Vol. II, by Carl Caioti, 1981 (Badger) 48 pages
Beginner's Guide to Model Airplanes, by Robert Lopshire, 1967, 128 pages
Control Systems for R/C Model Aircraft by Jim Newman, 1985, 23 pages
400 Great R/C Modeling Tips, by Jim Newman, 1987 (M.A.News), 70 pages
RC Gliders, Build & Fly, by Jack Schroeder, 1982, (Kalmbach), 32 pages
Learning to Fly R/C Model Airplanes, by John Carroll, 1987(Kalmbach),84pp
Basics of R/C Modeling, by Fred Marks & Bill Winter, 1975(Kalmbach),84pp
Crashless Way to Advanced R/C Flying, by H.Cunningham, 1974, 55 pages
Cox Hobbies:Guinness Air Facts/Feats Book, 1978 (Bantam Books),240 pages
Jet Know-How, Pratt & Whitney, 1982 (United Technologies, 2 booklets) **20+24 p.**

Model Airplane Construction Books

Byron Originals, Inc. Kit Catalogue, Ida Grove Iowa, 1991, 102 pages
Ram Electronic Devices Catalogue, (Lighting Systems-Round Lake Beach, IL) 4p.
Sig Kadet, Const. booklet, by Claude McCullough, 1976, (Sig Mfg.), 19 pages
Zap Adhesive Hints, Pacer Technologies, undated, poster size equiv. 8 pages



31st ANNUAL

**SUNDAY
JANUARY 4th, 2009**

MILWAUKEE, WISCONSIN

AUCTION & SWAP SHOP



Sponsored by
MILWAUKEE R/C ASSOCIATION



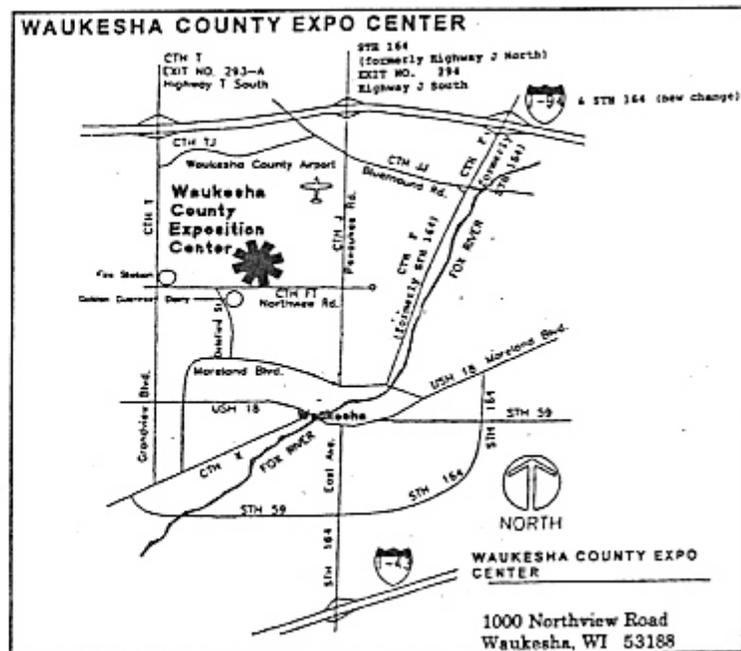
Chapter #7

**ADMISSION: \$5.00 ADULTS
(UNDER 16 FREE)**

SWAP SHOP: 9:00-3:00
No selling or general admission before 9:00

AUCTION
Every 30 minutes in 15 minute segments, from 12 noon until all items are auctioned.

TABLE FEES
All tables are \$20.00 ea. plus \$5.00 admission per person. 2 admissions for the first table and 1 admission for each additional table. No exceptions. Please call Laurie Jones to reserve your tables - 414-461-6013.



WAUKESHA COUNTY EXPO CENTER
(South of Waukesha County Airport)
N1 W24848 NORTHVIEW RD.
(262) 548-7200 TAKE I-94 to CTH J.
SOUTH ON J, ONE MILE TO NORTHVIEW

FOOD - BEVERAGES - AMPLE FREE PARKING
RAFFLE at 1:00 p.m.
(or immediately after auction)

MEMBER CLUBS:

ABC/RC; Astro Wings of Wis.; Dairyland Aero Miniature Modelers; Lakeland R/C; Milwaukee Area Radio Control Society (MARKS) Club; Milwaukee Flying Aces; Flying Electrons, Inc.; Pebble Creek Flyers, Inc.; Racine RC Club, Inc.; Rainbow AeroModelers Society (RAMS Club); Sea Turkeys Assoc. Racing Team (START Club); SE Wis. Area Rotary Modelers; Sky Ranch Flyers;

AFFILIATE CLUBS: Bong Eagles; Circlemasters Flying Club, IPMS: Billy Mitchell Chapter; IPMS: Richard I. Bong Chapter.

Use Your Club Library

by Russell Knetzger, Club Librarian & Editor

This issue on page 8 is a listing all the VHS videos owned by the RAMS Club. Included are all the professionally made AMA-Academy of Model Aeronautics videos, nine (9) in all. Most are an easy half hour long.

The most useful video in our collection is how to do Monokote, the premier of all iron-on coverings. For those of you buying ARFs (Almost Ready to Fly) models, how are you going to do a repair without first viewing the Monokote I book? And for those of you wanting something to build over the winter, what better odor free method of covering your model than an iron-on film?

Also shown are all the Books owned by the club. If you like engines, we own six excellent works. Three are by Clarence Lee, published via RCM press. Peter Chinn, another famous model engine man via Model Airplane News press, also focuses on the four stroke model aircraft engine. Finally, Graham Rice offers a guide to four stroke engines made by OS, of Japan.

In a future newsletter we'll feature the construction plans owned by the club, and how you can cheaply copy them.



Club Members receive a discount

8021 W. National Ave
West Allis WI 53214
414-453-3210

7125 N. 76th Street
Milwaukee WI 53223
414-461-6013

See Scott or Laurie for all of your control line needs.
Special orders welcome.

Upcoming Events – January

This Sunday, January 4, 2009 31st Annual Swap Meet & Auction

Sponsored by the Milwaukee R/C Association (RAMS belong) - Volunteers earn \$10 each for RAMS Work Shift#1 7AM, Show Open 9AM-3PM, Waukesha County Exposition Center, SW corner, Waukesha County Airport (Take I-94 to CTH J – Pewaukee Road Exit, south one mile past airport to Northview Rd., Turn west one mile)

Wednesday, January 7, 2009 RAMS Club Meeting-7PM

(WaterStone Savings Bank – Formerly Wauwatosa Savings Bank, - 6560 S. 27th Street, Oak Creek)

Nominations for Officers (for Elections at February 4, 2009 Meeting) Report of the By-Laws Committee

Tuesday, January 13, 2009 MARKS INVITATIONAL to RAMS, 7PM

Photos of MARKS, 2008 Float Fly at Bong Recreational in Kenosha County and Possible representative of the WIS DNR Bong Recreational Facility (82nd & W. Forest Hill Ave., Franklin Public Schools District Offices & Community Center)