

ACADEMY OF MODEL AERONAUTICS MEMBERSHIP MANUAL 2005

For AMA Members...

Concerning operation and background of the organization, with details of services available.

Tel.: (765) 287-1256;

Fax: (765) 289-4248

Web address:

www.modelaircraft.org



**Membership Tel.: (800) I FLY AMA;
(800) 435-9262;**

Fax: (765) 741-0057

National Model Aviation Museum

Tel.: (765) 287-1256, ext. 508;

Model Aviation Subscriptions:

(800) 435-9262

Education: www.buildandfly.com

National Model Aviation Museum: www.modelaircraft.org/museum/index.asp

Museum Store: www.modelaircraft.org/site/default.aspx

**Academy of Model Aeronautics
5161 E. Memorial Dr.
Muncie IN 47302**

TABLE OF CONTENTS

- 2 • Insurance
 - 3 • 2005 Safety Code
 - 4 • AMA Mission Statement
 - 5 • Recommended RC Flying Site Specifications
 - 6 • RC Site Separation • Flying Site Suggestions • Safety Recommendations • Model Rocketry
 - 7 • Sanction Information • Contest Directors
 - 10 • Records • FAI Record Sanction Procedures • Organizational Information • AMA Bylaws
 - 14 • Standing Rules Guidelines
 - 15 • Officers • Complaints
 - 16 • Conflict of Interest • Official Publication • Leader Members • National Aeromodeling Championships
 - 17 • Radio Control Operation
 - 20 • Guidelines for Acceptable Introduction of a Full Set of RC Frequencies
 - 21 • Automated Phone Service • Awards • Charter Club Program • Credit Card Service • Education Activities • Flying Site Development/Improvement Grant Program
 - 22 • International Aeromodeling Center Flying Site Use • Introductory Membership Program • Intro Pilot Program • Leader Club Awards
 - 23 • Lee Renaud Memorial Library • Life Membership Information • Membership Fees • National Model Aviation Museum Patron Program • Password Protection
 - 24 • Recognizing Individuals • Renewal Services Offered • Scholarship Program • Ultimate Model Airplane Video Library Series • Volunteer Program
 - 25 • Special Interest Groups
- Back Cover**
- AMA Headquarters Service Directory
 - Related Modeling Organizations

2005 INSURANCE SUMMARY – THE FACTS ABOUT AMA’S INSURANCE- For Individual Members

All incidents need to be reported immediately!

Commercial General Liability Coverage (Effective March 31, 2005)

- AMA Liability Protection applies to bodily injury or property damage caused by an AMA member. Any AMA member who causes an accident must report that accident immediately to AMA HQ.
- Applies to accidents arising from the operation of model aircraft, rockets, cars and boats, in accordance with the AMA NATIONAL Safety Code(s).
- The per occurrence limit of coverage available by this policy is \$2,500,000 involving bodily injury and/or property damage with an annual aggregate limit of \$5,000,000 per site. These limits are for claims occurring during the policy period. Coverage is provided only for accidents arising from the model activities.
- Failure to comply with the AMA Safety Code may endanger insurance coverage.
- A separate policy covers participation in FAI events outside of the United States and Canada. This policy has a \$1,000,000 limit.
- There is no coverage for injury to a member to his own family (Household and Relative(s) living in the member’s household) for claims or suits.
- The policy does NOT cover business pursuits; that is any activity that generates income for a member beyond reimbursement of expenses, except coverage is provided for an individual paid flight instructor.
- AMA insurance is “excess” to any other applicable coverage, such as homeowner’s.
- Has a \$250.00 deductible (property damage only), which is the responsibility of the AMA member causing the accident.

Accident/Medical Coverage (Effective January 1, 2005)

The Accident/Medical coverage applies to injuries resulting from flying or model operations regardless of who causes the accident. It reimburses an AMA member in accordance with policy terms and conditions for only medical expenses (also the beneficiary for loss of life) incurred within 52 weeks of the accident.

The Accident/Medical coverage works as follows:

- Provides up to \$25,000 personal injury and \$10,000 for dismemberment or death.
- Operates directly—does not require claim action by another person.
- Pays upon submission of bills or other documents certifying cost of treatment and that injury was caused by model operations.
- Reimburses medical expenses only after submission to any other health plan.
- Has a \$750.00 deductible.

Fire, Vandalism, and Theft Coverage (Effective January 1, 2005)

- Provides up to \$1,000 for loss of aircraft models and accessories, including RC equipment. All theft loss claims must be accompanied by a police report. NOTE: Theft has to occur from a locked vehicle or residential dwelling. There must be physical evidence of violent forcible entry.
- Has a \$100.00 deductible.
- Is “excess” to any other applicable coverage, such as homeowner’s.

During regular business hours (Monday—Friday, 8 a.m.—5 p.m. EST) please call (765) 287-1256, extension 252 for claim forms and filing procedures.

To report any serious liability incident after hours or on weekends please call (765) 749-2277.

This information is merely a brief summary. Complete details of coverage(s), reporting periods, and exceptions are contained in master policies on file at AMA HQ, available for \$5.00 per policy for handling and postage.

Official Academy of Model Aeronautics National Model Aircraft Safety Code

Effective January 1, 2005

GENERAL

1. A model aircraft shall be defined as a non-human-carrying device capable of sustained flight in the atmosphere. It shall not exceed limitations established in this code and is intended to be used exclusively for recreational or competition activity.
2. The maximum takeoff weight of a model aircraft, including fuel, is 55 pounds, except for those flown under the AMA Experimental Aircraft Rules.
3. I will abide by this Safety Code and all rules established for the flying site I use. I will not willfully fly my model aircraft in a reckless and/or dangerous manner.
4. I will not fly my model aircraft in sanctioned events, air shows, or model demonstrations until it has been proven airworthy.
5. I will not fly my model aircraft higher than approximately 400 feet above ground level, when within three (3) miles of an airport without notifying the airport operator. I will yield the right-of-way and avoid flying in the proximity of full-scale aircraft, utilizing a spotter when appropriate.
6. I will not fly my model aircraft unless it is identified with my name and address, or AMA number, inside or affixed to the outside of the model aircraft. This does not apply to model aircraft flown indoors.
7. I will not operate model aircraft with metal-blade propellers or with gaseous boosts (other than air), nor will I operate model aircraft with fuels containing tetranitromethane or hydrazine.
8. I will not operate model aircraft carrying pyrotechnic devices which explode, burn, or propel a projectile of any kind. Exceptions include Free Flight fuses or devices that burn producing smoke and are securely attached to the model aircraft during flight. Rocket motors up to a G-series size may be used, provided they remain firmly attached to the model aircraft during flight. Model rockets may be flown in accordance with the National Model Rocketry Safety Code; however, they may not be launched from model aircraft. Officially designated AMA Air Show Teams (AST) are authorized to use devices and practices as defined within the Air Show Advisory Committee Document.
9. I will not operate my model aircraft while under the influence of alcohol or within eight (8) hours of having consumed alcohol.
10. I will not operate my model aircraft while using any drug which could adversely affect my ability to safely control my model aircraft.
11. Children under six (6) years old are only allowed on a flightline or in a flight area as a pilot or while under flight instruction.
12. When and where required by rule, helmets must be properly worn and fastened. They must be OSHA, DOT, ANSI, SNELL or NOCSAE approved or comply with comparable standards.

RADIO CONTROL

1. I will have completed a successful radio equipment ground-range check before the first flight of a new or repaired model aircraft.
2. I will not fly my model aircraft in the presence of spectators until I become a proficient flier, unless I am assisted by an experienced pilot.
3. At all flying sites a straight or curved flightline must be established, in front of which all flying takes place. Only personnel associated with flying the model aircraft are allowed at or in front of the flightline. In the case of airshows, demonstrations, or competitions, straight lines must be established. An area away from the flightline must be maintained for spectators. Intentional flying behind the flightline is prohibited.
4. I will operate my model aircraft using only radio-control frequencies currently allowed by the Federal Communications Commission (FCC). Only individuals properly licensed by the FCC are authorized to operate equipment on Amateur Band frequencies.
5. I will not knowingly operate my model aircraft within three (3) miles of any preexisting flying site without a frequency-management agreement. A frequency-management agreement may be an allocation of frequencies for each site, a day-use agreement between sites, or testing which determines that no interference exists. A frequency-management agreement may exist between two or more AMA chartered clubs, AMA clubs and individual AMA members, or individual AMA members. Frequency-management agreements, including an interference test report if the agreement indicates no interference exists, will be signed by all parties and copies provided to AMA Headquarters.
6. With the exception of events flown under official AMA Competition Regulations rules, after launch, no powered model may be flown outdoors closer than 25 feet to any individual, except for the pilots and helpers located at the flightline.
7. Under no circumstances may a pilot or other person touch a model aircraft in flight while it is still under power, except to divert it from striking an individual.
8. Radio-controlled night flying is limited to low-performance model aircraft (less than 100 mph). The model aircraft must be equipped with a lighting system which clearly defines the aircraft's attitude and direction at all times.
9. The operator of a radio-controlled model aircraft shall control it during the entire flight, maintaining visual contact without enhancement other than by corrective lenses that are prescribed for the pilot. No model aircraft shall be equipped with devices which allow it to be flown to a selected location which is beyond the visual range of the pilot.

FREE FLIGHT

1. I will not launch my model aircraft unless I am at least 100 feet downwind of spectators and automobile parking.
2. I will not fly my model aircraft unless the launch area is clear of all individuals except my mechanic, officials, and other fliers.
3. I will use an effective device to extinguish any fuse on the model aircraft after the fuse has completed its function.

CONTROL LINE

1. I will subject my complete control system (including the safety thong where applicable) to an inspection and pull test prior to flying. The pull test will be in accordance with the current Competition Regulations for the applicable model aircraft category. Model aircraft not fitting a specific category shall use those pull-test requirements as indicated for Control Line Precision Aerobatics.
2. I will ensure that my flying area is clear of all utility wires or poles and I will not fly a model aircraft closer than 50 feet to any above-ground electric utility lines.
3. I will ensure that my flying area is clear of all nonessential participants and spectators before permitting my engine to be started.

SPECIALIZED SUPPLEMENTAL SAFETY CODES

Specialized supplemental Safety Codes exist for the following:

RADIO CONTROL COMBAT

GENERAL RADIO CONTROL RACING

GIANT SCALE RADIO CONTROL RACING

GAS TURBINE OPERATION (Note: Special waiver required)

These special codes and appropriate documents may be obtained either from the AMA Web site or by contacting AMA Headquarters.

What is AMA?

- AMA is the Academy of Model Aeronautics.
- AMA is the world's largest sport aviation organization, representing a membership of more than 170,000 from every walk of life, income level and age group.
- AMA is a self-supporting, non-profit organization whose purpose is to promote development of model aviation as a recognized sport and worthwhile recreation activity.
- AMA is an organization open to anyone interested in model aviation.
- AMA is the official national body for model aviation in the United States. AMA sanctions more than a thousand model competitions throughout the country each year, and certifies official model flying records on a national and international level.
- AMA is the organizer of the annual National Aeromodeling Championships, the world's largest model airplane competition.
- AMA is the chartering organization for more than 2,500 model airplane clubs across the country. AMA offers its chartered clubs official contest sanction, insurance, and assistance in getting and keeping flying sites.
- AMA is the voice of its membership, providing liaison with the Federal Aviation Administration, the Federal Communications Commission, and other government agencies through our national headquarters in Muncie, Indiana. AMA also works with local governments, zoning boards, and parks departments to promote the interests of local chartered clubs.
- AMA is an associate member of the National Aeronautic Association. Through NAA, AMA is recognized by the Fédération Aéronautique Internationale (FAI), the world governing body of all aviation activity, as the only organization which may direct U.S. participation in international aeromodeling activities.
- For more detailed information, contact the Academy of Model Aeronautics, Marketing Department, 5161 E. Memorial Drive, Muncie, Indiana, 47302 or telephone 1-765-287-1256.

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:

- Partnerships with its valued associates, the modeling industry and governments;
- A process of continuous improvement;
- A commitment to leadership, quality, education and scientific/technical development; and,
- A safe, 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 and advancement of modeling activities. The Academy provides leadership, organization, competition, communication, protection, representation, recognition, education and scientific/technical development to modelers.

Recommended RC Flying Site Specifications

A. INTRODUCTION:

The Academy of Model Aeronautics has determined that most modelers and model clubs are careful in their selection of flying sites, site layout, and operational practices.

The suggested specification detailed below has been developed to promote improved field management and provide added margins of safety for the ever-increasing numbers of fliers and spectators. Most clubs should be able, with reasonable effort, to comply with this suggested layout for general field arrangement and conditions for sport flying.

The suggested specifications are not intended as mandatory requirements, and compliance with these suggestions does not, of course, guarantee that no accident will occur. The AMA recommends that individual clubs design their flying sites based not only on the suggested specifications below, but also upon the individual characteristics of the flying site and the type of RC activity which is anticipated. AMA should be contacted if there are any questions concerning site specifications and site layouts.

The AMA Safety Code remains the governing factor. All members and clubs must conduct their field operation in accordance with the Code.

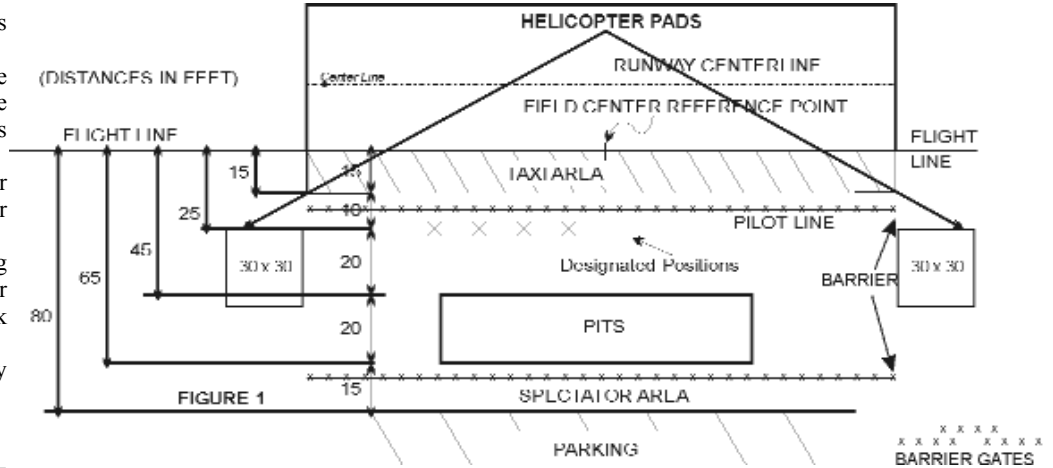
TAXI AREA: No landings or takeoffs from this area.

—Provides additional open space between pilots and aircraft during time when most out of control accidents happen.

—Allows taxi room in front of other pilots with less likely chance of other frequencies “swamping” taxiing aircraft.

BARRIER: Designed to stop taxiing models from veering into pilot’s and/or spectator’s positions (plastic or chainlink fencing, hay bales, shrubbery, etc.).

PILOT LINE: Set back from runway edge to keep pilots away from aircraft.



B. PERSONNEL SIDE OF FLIGHT AREA:

LOCATIONS

- Runway edge is the basic
- Pilot line a minimum of
- Pit line a minimum of
- Spectator line a minimum of
- Parking lot a minimum of

DISTANCE FACTOR*

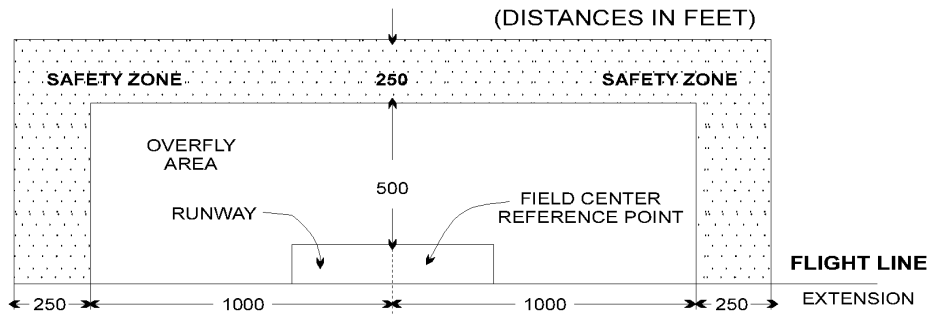
- Reference line or 0
- 25 feet from reference
- 45 feet from reference
- 65 feet from reference
- 80 feet from reference

SAFETY ZONE An additional 250 feet safety zone, added to the OVERFLY AREA, is desirable if any major roads, buildings, or outdoor personnel activities are in the general area.

C. FLIGHT SECTOR:

(Covering a 180° sweep on the flying side of the reference line)

Flight area clear of potential hazard** at least 1,000 feet left and right and 500 feet in front of pilot. Most flying is contained within 1,000 feet either end from field center reference point and 500 feet in front of reference point. Field center reference point is located in FIGURE 1, but essentially is edge of runway at the center of the field.



D. SIGNS—SUGGESTED MINIMUM POSTING REQUIREMENTS FOR PUBLIC NOTICE:

- Flying Site***
- Field Rules
- Current AMA Safety Code
- “No spectators beyond this point without escort”
- Park Area (signs at boundaries)
- Warning Sign

E. EQUIPMENT:

Frequency Control Board at RC sites.

*Measured perpendicular from edge.

**Potential Hazards:

Personnel working, playing, traveling outdoors. Vehicle occupied or unoccupied such as—car, truck, boat, aircraft, bus, train, etc. Building having glass surfaces facing the flying area.

Storage facility containing volatile products or compressed gasses.

***This sign may be incorporated with the field rules but should be the leading words in a larger letter size at the top of the sign. Placement of the sign should be situated so that spectators can easily read it.

From the 2005 Official AMA National Model Aircraft Safety Code

Radio Control Section, #5:

I will not knowingly operate my model aircraft within three (3) miles of any preexisting flying site without a frequency-management agreement. A frequency-management agreement may be an allocation of frequencies for each site, a day-use agreement between sites, or testing which determines that no interference exists. A frequency-management agreement may exist between two or more AMA chartered clubs, AMA clubs and individual AMA members, or individual AMA members. Frequency-management agreements, including an interference test report if the agreement indicates no interference exists, will be signed by all parties and copies provided to AMA Headquarters.

Document #535-G—Variations for AMA Frequency Management Arrangements

<u>1st Party</u>	<u>2nd Party</u>
AMA Chartered Club	AMA Chartered Club
AMA Chartered Club	Club not affiliated with AMA
AMA Chartered Club	Individual AMA Member*
Individual AMA Member	Individual AMA Member
Individual AMA Member	Individual not affiliated with AMA

There can be more than 2 parties involved in a Frequency Management Arrangement. Be sure to assign the designated frequencies to all parties and inform all involved members (i.e. post the assignments at the flying site). Please note, that only officers of the Chartered Club can sign the Frequency Management Arrangements on behalf of the club.

Important:

Once a Frequency Management Agreement is in place it does not have to be renewed on a yearly basis. It is valid until one or both parties (if AMA Chartered Club) disband, relocate, or sell the property. The agreement is only valid for the specific parties named, which means if a club disbands and another AMA Chartered Club/Individual Member uses the flying site, a new Frequency Management Arrangement will have to be created, signed by all parties involved, and copies sent to AMA HQ.

Participants in the Frequency Management Agreement are responsible for informing any guest flying at the site about the agreement and enforcing that only frequencies assigned for that particular site are used!

Flying Site Suggestions

For several years, the Academy has offered chartered clubs suggestions and assistance. AMA has an extensive package of support materials which, if utilized, can be of immense help in getting or keeping a flying site. There is no charge for this material. More than 100 pages of advice and documentation are available to chartered clubs for the asking.

Two items in this club assistance program are the "Getting and Keeping Flying Sites" packet and videos that are useful in club presentations. These tools have proven to be very useful to more and more clubs.

In any case, local clubs establish the safe flying rules for their site and these should be adhered to for assurance of insurance coverage, as per AMA Safety Code general item 3.

For help on all flying site matters, clubs and individuals should contact the Programs Department at the International Aeromodeling Center or the Flying Site Assistance person listed in *Model Aviation*.

Safety Recommendations

The following is taken mostly from the FAI Sporting Code, the international competition rule book, so the information is applicable worldwide. It is presented here as guidance for individual modelers and clubs alike. It should not be considered an all-encompassing set of safety guidelines. It is provided so that, together with the information in the AMA Safety Code, it will encourage modelers to pursue the hobby/sport in a safe manner.

The large majority of model flying today in most countries takes place as recreation, rather than within a competition framework, and sometimes on publicly accessible sites with little or no formal control. Any accident involving model aircraft may result in property damage, injury and possibly even death. Apart from the direct harm, a less obvious result is the poor image of model flying that comes from the media coverage of such accidents, which can lead to public antagonism and the loss of flying facilities.

It is therefore of the utmost importance that all model flyers observe safety rules. Any accident caused by carelessness is a hindrance to the progress of model aviation.

Safety rules are not an obstacle to the enjoyment of model flying; they help prove that model flyers are the responsible people they proclaim to be.

It is not a sign of intelligence to show one's own skill by flying among or above spectators. The flyer may know what he's doing but has no way of knowing what anyone else will do. So, it is to his personal benefit to make certain that no action on his part will result in an accident. It is therefore very important not to

fly any model aircraft in competition or in the presence of spectators until it has been proved airworthy by having been previously flight tested.

Immediately before each flight, the flyer should verify the actual condition and the proper functioning of all parts contributing to an efficient and safe flight of the model and proper fitting and fixation of the various parts, with special reference to engines and propellers.

It is imperative that all flying sites, especially control line, be situated as far as practical from power lines.

The starting area must be carefully chosen in such a way that normal safety to persons and things be granted. The points to be considered are: wind strength and direction, relative position of buildings, runways, vehicle parking and spectator areas, and the place where models are assumed to land after a normal flight, according to the wind.

The following constitute good general safety practices.

- Never attempt to retrieve a model from electric power lines. Contact the local power company.
- Refrain from using repaired propellers and rotor blades or those that are cracked, nicked, or unbalanced.
- Stay clear of the propeller arc while starting or running any engine or motor.
- Avoid stopping engines by throwing rags or other objects in the propeller.
- Refrain from using a pointed spinner, propeller fasteners, or knife-edge leading edges.
- Paint tips of propellers a bright color to better define the arc of propeller rotation.
- Check propeller and spinner for tightness before each operation.
- Learn and check for the proper grain patterns in wooden propellers to insure strength in high rpm operation.
- Exercise extreme caution in adjusting needle valve settings on engines. Most adjustments should be performed from behind the model, thus avoid reaching around a spinning propeller.
- Insure that ballast or heavy parts are not subject to loosening or jettisoning in flight.
- For Radio Control, perform a range check before each flying session and a check of flight functions before each flight.
- For Control Line, inspect the lines, bellcrank, and connectors before each flight.
- Carefully read and use the manufacturer's recommendations for their products.
- Establish a spectator control system for any site used. Post the various rules required for the specific site. Enforce them!
- All model liquid fuels need to be stored and handled properly. In particular, gasoline should only be stored, transported, and dispensed from a specifically designed and approved container. When handling fuels near models, there should be no smoking. Avoid hooking up any starter, pump, or battery that may produce arcing in the immediate area where fuel is located.
- Post emergency instructions, including hospital and doctor phone numbers and addresses. Provide a first aid kit if possible. Encourage the use of eye and ear protectors and flying with a buddy.
- Notify your local EMT station with directions to your flying site.

Notice to AMA Members Interested in Model Rocketry

Members interested in model rocketry may obtain a copy of the AMA Official National Model Rocketry Safety Code by contacting Special Services Department at AMA Headquarters.

There are pre-purchase requirements for the operation and/or purchase of model rocket engines in California and Rhode Island.

California Residents: Prior to model rocket engine purchase you must meet the following conditions.

1. You must be 14 years of age to purchase A thru D size model rocket engines. A parent may purchase rocket engines for you. (Kids as young as 12 may participate in bonafide rocket educational programs when conducted under the supervision of an educator or youth group leader.)
2. You must be 18 years of age to purchase E and F size rocket engines.
3. Purchase of rocket engines larger than F size requires a special rocket operators license.
4. To launch your rocket you must get authorization (verbally or in writing) from the fire authority having jurisdiction in the area in which you plan to operate. No other consumer permits are required. Copies of the California state law and regulations pertaining to model rocketry may be obtained from:

**California State Fire Marshal
Prefire Engineering
PO Box 944246
Sacramento, CA 94244-2460**

Rhode Island Residents: You must obtain a permit from the State Fire Marshal to purchase and use model rocket engines. To obtain your permit, write to:

**Rhode Island State Fire Marshal
Attention: Stan Davies, CIO Technical Services
1270 Mineral Spring Avenue
North Providence, RI 02904**

Sanction Information

Non-Rule Book Events

(For rule book events, see AMA Competition Regulations)

AMA SANCTIONED EVENTS

AMA sanctions contests, fly for fun meets, demonstrations, and other flying events. An AMA sanction means that the activity is endorsed by the Academy, is supervised by an AMA Contest Director (CD), is intended for AMA members only, and that the dates are protected from competing AMA activities in the vicinity.

Sanctioning also means that the activity is insured. A participating AMA member is assured that other fliers are insured to protect him just as his AMA insurance protects others.

A sanction application must be submitted by an Academy Contest Director. Approval of the sanction is contingent upon the CD being current for the event dates involved. Sanction applications may be obtained upon request from AMA Headquarters.

CONTEST DIRECTORS

A "CONTEST DIRECTOR" is a title bestowed on a selected individual that is already a member of AMA and has been for a minimum of three consecutive years. The Contest Director has the authority to administrate and supervise AMA Sanctioned Events under those procedures and guidelines as prescribed by the AMA Executive Council.

The Contest Director acts as a representative for AMA in the administration of sanctioned events. There is a high level of responsibility as a result of this status. The concerns of properly applying the rules, maintaining fairness, and providing high levels of safety in connection with the event are basic. In acting as the Academy's representative, the CD is protected by Insurance and, if necessary, legal support. It should be noted, however, that such protection requires that the task be done in a competent manner.

When contest events are advertised as AMA events, specifically or by implication (for example, Free Flight Class A Gas), the entrants naturally assume that AMA regulations apply—and deviations must therefore be clearly spelled out in advance, particularly in advertising, to attract out-of-townners (this cannot be done on the Contest Calendar). AMA sanctions exist to promote national standards—each CD should make a special effort in his AMA events to enforce the rules. Any deviations from the standard rules as printed in the AMA Rule Book must be detailed in writing as part of the sanction request. Such changes will be reviewed by the Technical Director for possible safety or procedural concern, determination of whether the deviations will be allowed, and which sanction status, "A" or "C" will be assigned. In the event additional guidance is needed or in the case of an appeal, the Contest Board Coordinator and the Contest Board Chairman for the event involved will be included in the decision process.

In order to effectively oversee conduct of an event, the CD is granted specific authority relating to organization, rules, and safety. In addition, the CD at an AMA sanctioned event has the authority to perform safety inspections of any equipment and to prevent any participant from using equipment which, in the CD's opinion, is deemed unsafe. Furthermore, the CD shall have irrevocable authority to disqualify or prevent from flying any participant whose ability is, in the CD's opinion, impaired by the use of alcohol or drugs.

AMA CDs who are lax in running events without enforcing rules jeopardize their official standing and encourage criticism of the value of an AMA sanction. On local levels, flexibility and stretching of rules is possible, but where out-of-town participants are involved, the entrants have a right to expect strict adherence to regulations. To ignore this is to invite protests and disqualification of record performances, for instance.

A Contest Director, when acting as a representative of the Academy, is responsible for properly applying the rules, maintaining fairness, and the completion of all required applications and reports.

A CD must at all times remember that he is a representative of AMA and will conduct himself in a professional manner.

He must be present at all times when the event he is responsible for is taking place. It is his responsibility to find a suitable replacement if he is unable to fulfill his responsibilities.

A CD is responsible to see that all safety rules and precautions are followed to the letter. Any CD who knowingly allows an unsafe condition to exist is subject to the loss of his CD status.

Overall, the AMA Executive Council is responsible to correct the deficiencies in the AMA Contest Director program. The changes should be aimed at protecting AMA against potential liability, while maintaining and motivating AMA members to perform the volunteer service of Contest Director. Where the position is abused, AMA needs to be ready to act

fairly, yet remove the CD designation, if such be warranted.

*See page 15 for CD complaints.

Interpretation. There are many precedents to follow in not upholding the letter of the law in rule enforcement! This is frequently necessary if the rule language is inadequate or unclear. However, the intent is usually understood and this should be the determining factor in decisions. The Judge's Guide, if one is available for an event in question, should be influential in decision making because it points up the intent of the rules. On the other hand, where the language is clear, there should be no question of following a rule exactly as written.

AMA MEMBER RESPONSIBILITY

It is of the utmost importance that we AMA members observe, first of all, the safety rules of our particular sport. Everyone of us is hurt when carelessness causes an accident, hindering model aviation's progress. The safety rules may seem to be designed to obstruct your enjoyment of this sport, but some guidelines must be set if we are to prove ourselves the responsible people we proclaim ourselves to be.

It is not a sign of intelligence or skill to be able to fly among or above spectators. It shows a definite lack of common sense. You may know what you are doing, but you have no way of knowing what anyone else will do. The unpredictable spectator must be allowed for, when you fly. Remember, the safety rules are designed to protect you, primarily.

It is to your personal benefit to make certain that no action on your part will result in an accident. The temptation to show off your flying skill increases in direct proportion to the number of spectators. While demonstrating your mastery of all the variables involved in this sport, it does no good to scare anyone.

DELAY OR CANCELLATION OF EVENTS

Under certain conditions a sanctioned event may be canceled. Where site availability is withdrawn prior to the event, AMA Headquarters should be notified in writing immediately. Every effort will be made to provide news of such cancellations in the Model Aviation event calendar.

The cancellation of an event while it is in operation requires careful consideration. Typically, such cancellation is weather-related. Conditions to be considered for the cancellation of an event due to weather or natural causes include, but are not limited to:

Wind—strong and sustained. While wind speeds of 40 mph have been arbitrarily listed as a maximum, it should be noted that the type of models being flown dictate whether the event can be flown safely. Exceptionally strong gusts and wind direction in relation to the field layout are important considerations.

Rain—heavy, steady. The possibility of hail, tornado, and hurricane activity is of special concern.

Other—lightning, flood, earthquake, fog, extreme temperature, and air conditions, other natural causes. Lightning presents a significant danger. While it is unlikely that complete event cancellation due to lightning will be required, every effort should be made to suspend flying and allow participants to seek shelter in its presence. The responsibility for the cancellation of an event rests with the Contest Director. If the CD feels the event cannot be flown safely he may cancel it. Mere discomfort or marginal conditions do not constitute reasons for cancellation.

Considerations should be given concerning risk to equipment and, in particular, the safety of the participants and spectators. The CD may seek guidance through the use of a contestant vote. Resanctioning of an event for weather-related conditions or natural causes will only be done if the conditions meet the basic criteria outlined.

Delay of Event. An event may be delayed, either initially or during the period of normal operation, at the CD's discretion. Typically, delays will be caused by natural or weather-related problems; however, other concerns of an emergency nature may be considered grounds for delaying the event. When delays occur due to unfavorable weather conditions, it is understood that flying will resume when conditions improve to the level present prior to the delay.

The CD is responsible for informing the participants present at the event, at regular intervals, as to the reasons for the delay and the possible time for resumption. In the case of competitive events, a delayed event will not be resumed if it is determined that time constraints will prevent the completion of adequate rounds of flying to determine a winner.

Cancellation Due To Low Entry. Cancellation of an advertised event on the day of the contest, because of low entry, may not be done. A participant

who has shown to fly in an advertised event must be permitted to enter an event which includes that class of model originally advertised. In instances where pre-entry is required, cancellation of an event due to low entry may occur in instances where 45 days exist between the pre-entry deadline and the contest. Upon cancellation of an event or events, the contest management shall be required to inform those pre-entered individuals of the cancellation by mail.

GUIDELINES FOR CONTEST COORDINATORS

Contest Coordinators are charged with the responsibility of promoting the sport by reducing the conflicts that inevitably arise in a heterogeneous hobby like ours. This is best done by people at the local level, making responsible decisions about conditions in their own Districts. While we recognize the absolute necessity for judgment at the local level, we offer the following guidelines so that in the event of a lack of precedent or lack of familiarity with particular problems, there may be a certain degree of uniformity among decisions.

Protected Drawing Area. The base on which the system is built is that of protected drawing area. Actually, this should be interpreted as modeler population, but this is very difficult to use even in the most general sense. Only after years of experience in a certain District can a Coordinator develop a feel for who flies what and lives where. It is hoped that those Coordinators who have developed this information will use it rather than coarse area measure which we propose here.

In general, on the same date, there should be at least the following distance separating contests:

- Class A 100 miles
- Class AA 300 miles
- Class AAA or AAAAA 450 miles

(These distances should be scaled down in high population density areas and should be scaled up in low population areas.)

Class AAA or AAAAA meets are not to be allowed to conflict with an AMA-sponsored National or International Contest anywhere in the country, but Class A and AA meets may be allowed provided that they are at least 1,000 miles away. FAI semifinals or finals are not considered to be in conflict with other meets that do not offer the same events. Traditional Class AAA or AAAAA meets may be scheduled in conflict with FAI semifinals or finals if the Contest Director of the Class AAA or AAAAA meet is informed of the conflict and does not choose to change dates. This concession is due to the fact that both types of meets are generally scheduled on three-day weekends, and these are in very short supply.

(Note: The National Aeromodeling Championships (Nats) shall be identified by a AAAAA contest classification. Only one such competition may be held in a given year. The Executive Council shall be the sole determining authority, relative to whether the competition is held, the dates of its operation, and the location.)

Traditional Contest. Any Class AA, AAA, or AAAAA contest that has been held annually on the same date or weekend for the last three (3) years shall be considered a traditional contest and shall be allowed first choice of that usual date and take precedence over any Class AAA or AAAAA contest date, provided that the sanction application and fee are submitted from six (6) months to one (1) year before the desired date. Such traditional dates may be reassigned if no contest sanction request is received within such time period. The AMA District Vice President is authorized to change, either permanently or temporarily, the date of any contest that has traditional status, to help alleviate the problem of internal conflicts.

Conflicts of Contests in Different Categories. Contests in different categories (Control Line, Free Flight, Indoor, Radio Control) should not be considered to be in conflict in the protected drawing area concept. Sanction issuance to several contests that are restricted on a category basis in a small area is encouraged.

Acceptance of Sanction Applications. Sanction applications may not be honored if submitted more than one (1) year or less than 30 days prior to the proposed date of the contest, except that Record Trials and Demonstration event applications may be submitted no less than 20 days prior to the proposed date.

In the original contest sanction application, the submission of an alternate date or dates acceptable to the applicant are to be set forth.

Order of Acceptance. All correctly completed sanction applications accompanied with correct fees will be honored in the order received after consideration of the conditions mentioned above. In all cases of conflicting requests that arrive simultaneously, larger meets will take precedence over restricted meets unless the restrictions nullify possible conflicts as outlined in the rule book instructions.

Correct Sanction Applications. Sanction applications are correct if they meet all the requirements outlined in the front of the rule book.

Applications for contests in the next calendar year must include proof that the CD has paid his license fees for that year, or those fees may accompany the sanction request.

Communications Between Contest Coordinators in Adjacent Districts.

It is absolutely imperative that Coordinators in adjacent Districts cooperate in the issuance of sanctions where the guidelines indicate that a contest will draw participants from a District adjacent to that in which the application is made. In case of possible interference of this type, the Coordinator is responsible for communicating with the Coordinator of the adjacent District at the earliest possible time so that interference will be minimized.

In cases where this cooperation is nonexistent, or where a Coordinator feels that he is not operating at maximum efficiency because of lack of cooperation of a Coordinator in an adjacent District, it is his responsibility to bring this to the attention of his District Vice President who will resolve the problem through the VP of the adjacent District.

Appeal. If an individual club is unhappy with its approved date, or feels that the date of another club is a result of a procedural error, the affected club officers may appeal to the respective District VP. The VP, in making his decision, should also contact the VP and/or Coordinator of any other District involved. Decision of the VP is final.

SANCTIONED EVENTS

1. Sanctioned Events. The Academy of Model Aeronautics sanctions the following types of model activities. Flying activities include A, AA, AAA, AAAAA contests, Class B contests, Record Trials, National, and International contests that are part of the AMA Team Selection program, non-rule book events (Class C) including fly-ins, and demonstrations classified as Class D. There will be no preferences or priorities extended to any participant(s) on any geographical, organizational, cultural, or social basis. Any such restrictions automatically relegate the activity to a B classification. These activities will be conducted by licensed Contest Directors according to these official regulations.

(Note: The National Aeromodeling Championships (Nats) shall be identified by a AAAAA contest classification. Only one such competition may be held in a given year. The Executive Council shall be the sole determining authority, relative to whether the competition is held, the dates of its operation, and the location.)

(Note: Liability protection for site owner(s) and/or sponsor(s) in connection with AMA sanctioned events may be obtained from AMA Headquarters at extra cost above sanction fees. However, such protection may already be in effect by reason of the AMA Charter Club program—check first.)

1.1. Official medals of the AMA shall be available to clubs and to organizations as awards for achievements in model aeronautics. The medals shall be available without engraving or date so that they may be used at other contests or may be returned to the AMA for credit or refund. Medals which have been engraved or damaged may not be returned. Gold-finish medals will signify first place, silver-finish medals will signify second place and bronze-finish medals will signify other places. Requests for medals should be made by contacting the Supply and Service Department at AMA Headquarters.

2. Application for Sanction. All sanction applications except for AMA-sponsored national or international contests, finals meets of AMA team selection programs, or Class D and E events must be submitted by a CD of AMA to the appropriate District Contest Coordinator no more than one (1) year and no less than 30 days before the proposed contest date. In the original contest sanction application, the submission of an alternate date or dates acceptable to the applicant are to be set forth. Record Trials and Demonstration event applications may be made as little as 20 days before the proposed date. All sanction fees must accompany the sanction application. Applications for sanctions in the next calendar year must be accompanied by evidence that the CD has paid his membership fees for that year. The Contest Coordinator will forward the sanction application and fees to AMA HQ if no date conflicts exist.

2.1. Rain dates are not recognized by AMA, but should a contest be canceled due to inclement weather, the original sanction may be renewed, but will be considered valid only if the new date has been cleared with the District Contest Coordinator and AMA HQ so notified.

2.2. A sanction can only be issued for continuous dates. If at least a full day separates events, separate sanctions must be obtained for each. By definition, an AMA-sanctioned event shall be understood to include that period of time when the CD or his appointed representative is in attendance at the named site on the day(s) listed on the sanction.

2.3. Contest sanction applications are required to be filed from six (6)

months to one (1) year before the desired date by those wishing to protect a traditional date (as per Contest Coordinator Guidelines).

2.4. The AMA District Vice President is authorized to change, either permanently or temporarily, the date of any contest that has traditional status, to help alleviate the problem of internal conflicts.

2.5. When applying for a sanction, a CD may name an alternate CD to conduct the contest in the event that the original CD is unable to fulfill his obligation. In the event that no alternate CD has been named, a replacement CD may be named by the AMA Vice President of the District in which the contest is to be held, by the AMA President or by his appointee.

3. Classification of Sanctioned Events. To determine a class of meet in which the number of events is a factor, the only events that are to be counted are events published in the current AMA model aircraft regulations (rule book). These events include those known as Official, Provisional, or Supplemental. Other nonofficial events may be held (if they do not violate safety provisions of official events that permit models of similar weight, size, and power), but such events are not to be counted for meet classifications. As a guide to CDs and Contest Coordinators, those events listed on the AMA sanction application may be counted, and each line of the application is considered a separate event. Rule book terminology should only be used when the event actually involves competition as described in the event rules.

3.1. Class D Demonstration. Flight activity performed by a small group of fliers before a crowd of spectators, primarily for purposes of instruction and/or publicity. In addition to the regular form for sanction application, a brief description of the event(s) to be flown and special safety precautions must be included. Headquarters will grant the sanction if the preparations meet with approval and will notify Event Director and the District Contest Coordinator if not. Class D sanction requests will be submitted directly to HQ. No area protection for dates will be allowed.

3.2. Record Trials. Competition conducted solely for the purpose of providing opportunity and facilities for attempts to establish or surpass existing official model aircraft records, with no awards provided for the winners. In attempting to establish records, fliers in record trials competition shall be permitted as many flights as possible. Where flights are scored according to the highest or fastest single flight time, no limitations shall be placed on the order of flights. In categories scored on the basis of the total flight time for three (3) or more official flights, each attempt to establish a record shall consist of a complete series of three (3) or more official flights so that no flight or flights of one series shall be combined with a flight or flights of another series for scoring purposes. The first flight of a contest series is assumed to be the start of a record attempt. The start of any other record attempts (at a contest or record trials) must be declared prior to the first flight of each attempt.

3.3. Class B Contest. Entry is restricted to, or preference or priority is given to, members of a club or clubs; or to an organization affiliated with the AMA; or to residents of a confined area, such as a city or county.

3.3.1. Entry to a contest may be restricted on an area, club membership, or invitational basis. It may also be restricted to the members of a particular industry or service. It is essential, however, that these restrictions be spelled out in detail on the application for sanction so that the Contest Coordinator may decide whether conflicts exist. For example, an armed forces contest would not conflict with a civilian contest. Similarly, a manufacturer's invitational would not conflict with a club contest. These will be listed as Class B contests. No protected drawing area criteria will be applied to Class B contests.

3.4. Class A Contest. A contest with unrestricted entry (to AMA members) that contains at least one (1) rule book event.

3.5. Class AA Contest. A contest in which entry is unrestricted (to AMA members) and which provides at least four (4) sets of important awards through two (2) or more places. A Class AA contest must include at least two (2) events listed in the current model aircraft regulations. Separate age classes in one (1) event will not be counted as separate events for this purpose.

3.6. Class AAA Contest. State or regional championships in which entry is unrestricted (to AMA members) and that provides at least 12 sets of important awards through three (3) or more places in each event, with at least two (2) events having separate Junior and/or Senior categories. Examples of event combinations that meet these criteria are: four (4) events with each divided into separate Junior, Senior and Open age classes; six (6) events, each with Junior/Senior (combined) and Open age classes; eight (8) events, four (4) of which have at least two (2) age classes; 10 events, two (2) of which have at least two (2) age classes. Other combinations are possible and authorized if they provide at least 12 sets of

awards with at least two (2) sets going to age classes lower than Open. A Class AAA contest must include at least three (3) events listed in the current model aircraft regulations. Separate age classes in one (1) event will not be counted as separate events for this purpose.

3.7. Class AAAA Contest. A national championship event in which entry is unrestricted (to AMA members), designated for a contest within its primary area of activity, on a once per year basis—such as the annual Free Flight Championships designated by the National Free Flight Society; the annual Radio Control Pylon Championships designated by the National Miniature Pylon Racing Association, etc. For contest coordinating purposes, such meets shall have a protected drawing area equivalent to AAA contests. This status may only be granted by Executive Council action.

(Note: The National Aeromodeling Championships (Nats) shall be identified by a AAAAA contest classification. Only one such competition may be held in a given year. The Executive Council shall be the sole determining authority, relative to whether the competition is held, the dates of its operation, and the location.)

3.8. AMA-Sponsored National or International Contest. This is an exclusive sanction class for those events that are specifically approved by the AMA Executive Council and budgeted for operation from AMA funds—such as the annual AMA National Model Aeromodeling Championships, (in which entry is unrestricted to AMA members), AMA-hosted World Championships, etc. Such meets shall have a protected drawing area in which no AAA or AAAAA contest shall be sanctioned anywhere in the country on the same date(s), but a A or AA contest may be sanctioned if at least 1,000 miles away—any exceptions to be only by Executive Council approval.

3.9. FAI Team Selection Contest. All such contests, for the specific purpose of qualifying participants for AMA official teams to world championships, shall be sanctioned in the normal manner, except for the finals meets of AMA team selection programs which automatically shall be sanctioned and made known by AMA Headquarters.

3.10. Class C. Non-rule Book Events. An event with unrestricted entry to AMA members that may or may not offer awards, or an organized get-together of modelers for fellowship, mutual interests and/or good will, and may or may not offer a formal flying competition. A Class C event may be composed of special events, fun-fly events, or any combination thereof. A description of these events and any special safety precautions must be included with the sanction application. HQ will communicate any suggested additional safety requirements. The same date and area protection applies as A contests. If restricted following the guidelines for Class B events, it should be listed as “C-restricted.”

3.10.1. An RC racing event, whether or not an AMA Rule Book event, is one in which model aircraft compete in flight over a prescribed course with the objective of finishing the course faster to determine the winner.

A. In every organized racing event in which contestants, callers and officials are on the course:

1. All officials will be off the course except for the starter and their assistant.

2. “On the course” is defined to mean any area beyond the pilot/staging area where actual flying takes place.

B. I will not fly my model aircraft in any organized racing event which does not comply with paragraph A above or which allows models over 20 pounds unless that competition event is AMA sanctioned.

C. Distance from the pylon to the nearest spectator (line) will be in accordance with the current Competition Regulations under the RC Pylon Racing section for the specific event pending two or three pylon course layout.

Further, all individuals within that area are required to sign a “**Waiver of All Claims, Release of liabilities and Indemnity Agreement for Radio Control Pylon Events.**” These waivers shall be filed with the Academy of Model Aeronautics as part of the event sanctioning procedure by the Contest Director. If the appropriate waiver form is not provided to the Contest Director as part of the sanction package, they may be obtained from either the Competitions or Special Services departments at AMA Headquarters.

4. Who May Compete? Only those holding a current model flier's license may compete in sanctioned competition as outlined above. The Contest Director or his representative shall examine the sporting license of each contestant to determine its validity and the contestant's eligibility to compete.

4.1. A licensed flier is one who holds a current model flier's sporting license issued by the Academy of Model Aeronautics.

RECORDS

1. National Records. Perpetual American model aircraft duration and speed records are homologated by the Contest Boards of AMA. Perpetual records may be established at any time and shall continue until exceeded or affected by rules changes in the Official Regulations.

1.1. Records may be established in four (4) basic categories of official events; speed, duration, distance and altitude.

2. Acceptance of Records. No record is official until it has been homologated by the appropriate Contest Board of AMA. All records, to be eligible for recognition, must be established in:

1. An AMA Sanctioned Record Trial.
2. An AMA Sanctioned Contest where the record activity is a part of that event.
3. A World Championship, sanctioned by the FAI for the appropriate class model where the record activity is a part of that event.

The CD must satisfy himself that every applicable AMA regulation has been complied with. Where a record is established at a record trial and involves a timed flight, the record time must be the average of times recorded by two (2) timers holding valid AMA licenses. The record applicant and the CD may not serve as timers.

3. Multiple Records. When the specifications of a model, the method of timing, and the conditions of flight comply with the rules of more than one class or category, such model with a single flight (or single series of flights) may establish national records in more than one class or category if the performance exceeds the existing records. Responsibility for applying for national records rests with the flier and Contest Director.

4. Report of Record Performance. Within 14 days, according to postmark, following a performance believed to establish a national record, the flier or the CD shall submit to AMA Headquarters the following information: event (including field or ceiling category, if applicable), claimed record performance, contestant's name, AMA number, address, age classification, date, and place of record performance, signature of the CD, and the contestant's signature. This may be in the form of a completed

official record application form, or simply a statement by the contestant. In order for the record to be homologated, the flier or the Contest Director must submit to AMA Headquarters a report of the performance on the appropriate form. All information requested on the form must be given, and in every case in which a model other than a standard kit model is used, the form must be accompanied by a three-view drawing of the model with all pertinent dimensions given.

(Note: The signature of the Contest Director should be obtained at the contest. His signature implies that he is satisfied that the performance meets all applicable AMA rules. It is the contestant's responsibility to make sure that the CD processes the model or takes whatever other steps are necessary to be able to sign the application in good conscience.)

5. Flights After Contest Close. In events involving a series of flights, the CD may permit a contestant to make additional flights of a series after the official closing time of the contest in order to attempt to set a national record, provided at least one flight of the series was made before the official event closing time. Flight may not be made after midnight of the day of the contest, or such times as are specified by other parts of these rules.

FAI World Record Sanction Procedures

Attempting a world record is a substantial undertaking. The AMA Competitions/Technical Department has available a document (*World Record Attempts*) that will help educate you in many of the intricacies of the process. This is not intended as the final authoritative document on the subject.

It is up to the person or team making the attempt to assure that the attempt is done in accordance with all rules set forth for the category in which the attempt is being made. Additionally, this covers a multitude of records so there is no way to cover them all in a concise document.

Please contact the Competitions/Technical Department to receive a copy of this document. It will be sent along with *FAI Sporting Code* Section ABR. This is the part of the *Sporting Code* that governs World Record Attempts.

Additionally, *World Record Attempts* is available on the AMA Web site.

ORGANIZATIONAL INFORMATION

BYLAWS OF THE ACADEMY OF MODEL AERONAUTICS, INCORPORATED

As of July, 1997

ARTICLE I

Name, Location, and Incorporation

Section 1. The name of this organization shall be THE ACADEMY OF MODEL AERONAUTICS, INC. and shall hereinafter be referred to and designated as the AMA.

Section 2. The principal office of the AMA shall be located as directed by the Executive Council.

Section 3. The AMA is a non-profit corporation organized under the District of Columbia Non-Profit Corporation Act.

ARTICLE II

Purposes

Subject to the limitations set forth in the Academy of Model Aeronautics, Inc., Articles of Incorporation, the primary object of the AMA is to promote and foster educational and scientific advancement in model aeronautics, to give recognition to model leadership and to provide guidance and direction of national model aeronautic affairs by those individuals who, through their accomplishments in the model field, have demonstrated their qualifications for such responsibility. More particular purposes are listed below, but shall not be considered exclusive.

- (a) To encourage the study and discussion of scientific problems and to disseminate scientific news and views.
- (b) To organize and sponsor discussion conferences and the presentation of technical papers at such conferences.
- (c) To encourage through recognition, leadership in model aeronautics.
- (d) To recognize leadership of unusual quality by the conferring of

special honorary titles.

- (e) To encourage joint discussion directed toward group agreement on development needs relating to model aviation.
- (f) To keep model leaders informed through the publication of scientific journals and news bulletins.
- (g) To encourage the contribution of articles on the development of model aeronautics for the AMA publication.
- (h) To associate interested organizations and individuals for group support of education and development needs related to model aeronautics.
- (i) To guide and direct national model activities to the end that model aeronautics may be advanced in the United States in a manner that will best serve model aviation as a whole.
- (j) To guide and assist in the acquisition and retention of flying sites for the further growth and development of model aeronautics.
- (k) To establish and maintain official regulations governing the conduct of model airplane records and contests and issue sanctions for same.
- (l) To direct the technical organization and conduct of national and international model contests held within the United States and to act through the National Aeronautics Association as the aeromodeling representative in the United States for the Federation Aeronautique Internationale.
- (m) To license model aircraft and fliers thereof for competition.
- (n) To promote recognition in the United States and abroad of all officially sanctioned competitions and records which are conducted by AMA Contest Directors.
- (o) To have as its guiding principle, Of, By, and For the Model Airplane Enthusiast.
- (p) To operate through the National Aeronautic Association in representing all activities of United States Aeromodeling to the

FAI, such operation to be in accordance with a written agreement between AMA and NAA.

ARTICLE III Membership

Section 1. Any individual who indicates an interest in the building or flying of model aircraft or in furthering the purposes of the AMA shall be eligible for membership. The membership shall be divided into classes as follows:

- (a) **JUNIOR MEMBERS.** Those who are under 15 years of age as of 1 July.
- (b) **SENIOR MEMBERS.** Those from 15 but under 19 years of age as of 1 July.
- (c) **OPEN MEMBERS.** Those 19 or more years as of 1 July.
- (d) **LEADER MEMBERS.** Those Open members who have demonstrated an above-average interest and/or participation in AMA matters and who qualify in accordance with Executive Council-approved requirements.
- (e) **SPECIAL MEMBERS.** Restricted benefit memberships, reduced rate memberships, temporary memberships, used in connection with special and temporary programs. These members shall be entitled to benefits that are limited at the discretion of the Executive Council.
- (f) **ASSOCIATE MEMBERS.** Those members of other organizations who desire to affiliate with the AMA in accordance with written agreements between the AMA and the participating organization. These agreements shall be subject to Executive Council approval.
- (g) **HONORARY MEMBERS.** Those individuals who are given special recognition of contributions to model aviation or the AMA, upon approval of the Executive Council. Such members shall be entitled to privileges and benefits as the Executive Council shall determine.
- (h) **CONTRIBUTING MEMBERS.** Those who, as individuals or organizations, advance the purposes of the AMA by financial support. Such members shall be entitled to privileges and benefits as the Executive Council shall determine.
- (i) **LIFE MEMBERS.** Those who have made a financial donation, under criteria established by the Executive Council. The Life member shall be entitled to full membership, privileges, and benefits, for life.

Section 2. The Chartered Club is the local division of the AMA. It is the vehicle for recognition of any geographic grouping of AMA members.

- (a) The Charter provides the local organized group with added insurance protection for the club, the club officers, and flying site owners. Other services such as assistance in acquisition and retention of flying sites, materials for public relations, and legal counsel, when necessary are available to the Charter Club.
- (b) All members of the Chartered Club, including officers, must be members of the AMA (except Associate members who are not officers, defined as a wife, husband, child, or parent of an active club member who does not operate models as part of the club activity); such member must be listed on the Charter as an associate.

Section 3. The Executive Council's determination on eligibility or class of membership shall be conclusive. Upon acceptance for membership, each individual shall agree to accept the Articles of Incorporation and Bylaws of the AMA and to pay such dues as may from time to time be determined by the Executive Council. No member shall have any right, title, or interest in or to AMA property.

ARTICLE IV AMA Fellows

The title of "Fellow" will be conferred by the AMA upon individuals who, in the opinion of the Executive Council, have performed exceptionally meritorious service for model aeronautics. Fellows shall thereafter have free membership privileges for life.

ARTICLE V

Resignation, Termination, Disciplinary Action,

Exclusion, Expulsion, and Reinstatement of Membership

Section 1. Any member in good standing may resign his membership by giving notice in writing to AMA.

Section 2. If any member ceases to have the qualifications necessary for membership in the AMA, his membership shall thereby terminate, subject to reinstatement upon restoration of eligibility.

Section 3. Any individual may be expelled or excluded from membership by the AMA by a two-thirds (2/3) majority vote of the Executive Council if, in the Executive Council's determination, such individual willfully commits any act or omission which is a violation of any of the terms of the Articles of Incorporation, Bylaws, or Rules of the AMA, or which is detrimental to the AMA or to model aviation. Expulsion from membership is subject to the following procedures and rights.

- (a) A written statement of formal charges against a member suspected of such an act or omission and a written notice of proposed expulsion from membership, stating the date, time, and place where such action is to be considered by the Executive Council, shall be drafted under the direction of the President.
- (b) At least thirty (30) days before such action is to be considered, the written statement of formal charges and the written notice of proposed expulsion shall be mailed to each member of the Executive Council by ordinary mail and to the member charged by certified mail to his last known address.
- (c) The charges and proposed expulsion shall be considered by the Executive Council in Executive Session in a hearing at the date, time, and place specified in the notice of proposed expulsion. At the hearing, the member charged shall have an opportunity to present a defense, and a record of the proceedings shall be kept.
- (d) The vote of the Executive Council regarding the proposed expulsion shall be by secret ballot. To assure neutrality, any member of the Executive Council representing the member charged or representing any party aggrieved by the acts or omissions under inquiry shall be disqualified from attending the hearing or voting upon the question of expulsion, and the two-thirds (2/3) majority vote necessary for expulsion shall be determined as if the Executive Council were reduced by the number of its members so disqualified.

Section 4. Any member who is expelled from membership may be reinstated to membership only by a two-thirds (2/3) majority vote of the Executive Council.

Section 5. The Executive Council shall have the authority to provide for and to impose disciplinary action for such acts or omissions described in Section 3 of Article V which do not justify expulsion from membership.

ARTICLE VI Dues

The Executive Council shall set dues for all types of AMA membership. Any AMA member who fails to pay annual dues within thirty (30) days after they are due and payable shall be dropped from the membership rolls. In any event, a member's dues must be currently paid in order to exercise the right to vote.

ARTICLE VII Books and Records

Section 1. The AMA shall keep correct and complete books and records of accounts and shall keep minutes of the proceedings of its members, Executive Council, and committees having any of the authority of the Executive Council.

Section 2. A record of the names and addresses of its members entitled to vote shall be kept at the principal office of the AMA.

ARTICLE VIII

Meetings

Section 1. The Executive Council will have at least one annual meeting to be called with at least twenty (20) days notice by the President.

Section 2. Special Executive Council meetings may be called by the President, or by any five Executive Council members, or shall be called upon the written request of 5% of voting members of the Academy. The purpose of a Special meeting shall be stated in the call. Except in cases of emergency, as determined by the President, at least 15 days notice shall be given.

Section 3. A regular meeting of the membership shall be held annually at the call of the Executive Council, which may in its discretion call a special membership meeting at any time. The Executive Council shall call a special membership meeting upon written request of 5% of the voting members. The date and place of the membership meeting shall be as determined by the Executive Council. Meeting announcements shall be sent to each member of the AMA, or announced in the AMA's official publication, at least 45 days prior to the meeting date.

Section 4. The voting body at the annual membership meeting of the AMA shall be all Open AMA members in good standing. A quorum shall consist of the registered AMA members present. The Chairperson of the annual membership meeting shall be the President, or if unable to preside, someone designated by the Executive Council. All issues duly moved and passed at the membership meeting shall be mandates to the Executive Council for review and final determination at the next regular meeting of the Executive Council.

ARTICLE IX

Nominations and Elections

Section 1. AMA officers shall be nominated by a Nominating Committee composed of the District Vice Presidents (or an Open member from the district of the absent Vice President as designated by the absent Vice President), and the Executive Vice President (or an Open member as designated by the absent Executive Vice President). The Nominating Committee shall operate annually and under procedures defined in the Standing Rules attached to these Bylaws. The Nominating Committee shall be responsible for nominating the candidates for each office to be vacated at the end of the year.

Section 2. No AMA officer, currently serving in office, who has been properly nominated for reelection to the same office, shall be denied a place on the ballot except that the Nominating Committee by a vote of $\frac{3}{4}$ of those present and voting shall withhold such officer's name.

Section 3. To be eligible to discharge the duties of AMA President, a nominee must be a Leader member of the AMA and must previously have served as a member of the Executive Council or as Associate Vice President or as a Contest Board member for at least one year. To be eligible to discharge the duties of an elected AMA officer other than President, a nominee must be a Leader member of the AMA. To be eligible to discharge the duties of an appointed AMA officer, including Associate Vice President, Contest Board member, and Contest Coordinator, an appointee must be a Leader member of the AMA.

Section 4. The President, Executive Vice President and Vice Presidents shall be elected by mail ballot of Leader and Open members. A plurality vote shall elect. District Vice President candidates shall be nominated exclusively by Leader or Open members who, at the time of such nomination, are bona fide legal residents of the same District as that of which the nominee is also a bona fide legal resident; a nominee, however, can only be nominated for the Vice Presidency of the District in which he or she is a bona fide legal resident. District Vice Presidents shall be elected exclusively by a plurality of those Leader and Open members voting, who, at the time of such election, are bona fide legal residents of the same District as that of which the candidates for such office are also

bona fide legal residents. All other elective officers shall be nominated by Leader or Open members, without regard to residential considerations.

Section 5. Districts of the AMA shall be determined by the Executive Council.

Section 6. Nomination procedures are Standing Rules. The procedures shall be contained in the Executive Council approved Official Nomination Procedures document and this document shall be published in the AMA general membership publication at least 90 days prior to the annual Nominating Committee meeting.

ARTICLE X

Officers

Section 1. The officers of the AMA shall be a President, an Executive Vice President and a Vice President to represent each of the AMA Districts. Terms of office for all officers shall be three calendar years or until their successors are elected. The term of office shall begin January 1. In addition, there shall be an Executive Director who shall be selected by a $\frac{3}{4}$ affirmative vote of the Executive Council, and who shall serve in accordance with a contract approved by the Executive Council.

Section 2. In the event of a vacancy during a regular term by death, incapacity, inactivity, resignation, impeachment, removal from office or transfer out-of-district of any AMA official, the following procedure shall be used to replace him to fill out the remainder of his term:

(1) The Executive Council may replace a Vice President as follows: When a vacancy occurs during the regular term of an elected Vice President, two nominees for his replacement are to be selected by the outgoing Vice President (or by the Executive Council in the event of the demise, incapacity, or inaction of the Vice President), one of whom shall be currently an active Associate Vice President in that district. Any nominee must be qualified for the office of District Vice President as provided in Article IX. An election shall be conducted by AMA Headquarters by mailing ballots to all Open members of the District. A plurality vote shall elect. A period from date of mailing to close of receipt of balloting will be established by the Executive Council. When a vacancy occurs within three months of the end of the current term of office, or when a Council meeting is called or scheduled during the nominating and voting period, the outgoing Vice President (or the Executive Council in the event of his demise, incapacity, or inaction) shall make an interim appointment from among the active Associate Vice Presidents in the district.

(2) The Executive Council may replace a President or Executive Vice President.

Section 3. The President shall be the Chief Executive Officer of the AMA. The President shall be a member, ex-officio, of all regular and special committees except the Nominating Committee. The President shall have the authority to establish or dissolve any committees other than those established by the Bylaws or the Executive Council and to appoint or remove committee chairmen, except as otherwise provided by the Bylaws; and to make final and binding decisions relative to unresolved disputes and protests.

Section 4. The Executive Vice President shall be the Chief Financial Officer of the AMA, shall monitor the financial and corporate affairs of the AMA, make an annual report to the membership regarding the financial affairs of the AMA; and shall make periodic reports, not less than quarterly, to the Executive Council regarding financial matters of the AMA, and shall assume the duties of the President in the event of a vacancy as described in Section 2. until such vacancy is filled.

Section 5. The District Vice President of each of the AMA districts, as a member of the Executive Council, will formulate policy, serve on committees (when appointed), and resolve other matters brought before the Executive Council. The District Vice President will appoint all of the following for his district: Contest Board members, Contest Coordinator(s), Frequency Coordinator, and Associate Vice President. The District Vice President is responsible for maintaining

Academy contact within the district and providing coordination with Headquarters on AMA matters.

Section 6. The Associate Vice President is not an elective office. He is appointed by the District Vice President of his AMA district. The number of Associate Vice Presidents within each district will be established by the Executive Council in accordance with the specific needs of each district. The Associate Vice President will serve as a liaison between the members of the district and the District Vice President. He may attend functions on behalf of the Vice President and perform other duties as required within his specific area.

Section 7. The Executive Director shall be the Chief Operating Officer of the AMA. He shall be directly responsible to the Executive Council for the operation of the AMA Headquarters staff and for the conduct of AMA business. He shall be responsible for accepting funds and making disbursements, for keeping books and records required by the Articles of Incorporation, the Bylaws, the Executive Council or applicable law, for the submission to the Executive Council of an annual report on income and expenses of the preceding year and for a budget for the coming year (at such time or times as the Council may direct). The Executive Director shall assist the President, Executive Vice President, and the Vice Presidents in the performance of their respective duties.

ARTICLE XI

Executive Council

Section 1. The management of the affairs of the AMA shall be vested in a governing body, to be known as the Executive Council.

Section 2. The Executive Council shall be composed of the President, the eleven District Vice Presidents, Executive Vice President, and an ex-officio member who shall be an officer of the National Aeronautic Association designated by the NAA. The ex-officio member shall have the right to vote, but he shall not be counted in determining if a quorum is present at a meeting. The AMA President shall act as Chairperson of the Executive Council.

Section 3. The Executive Council shall have the authority to supervise the affairs of the AMA and to establish policies.

Section 4. Official decisions may be made by a 2/3 majority mail vote or by a quorum at a Council meeting. A quorum shall consist of at least 50% of current Executive Council members. There shall be no proxy voting; however, a Vice President may designate an Associate Vice President from his district to represent his district at Council meetings with all rights and privileges except the right to vote.

Section 5. Decisions of policy shall not be at variance with the stated purposes and objectives of the Bylaws or the Articles of Incorporation of the AMA.

Section 6. Any bona fide AMA member may initiate a formal request for Executive Council action by submitting a petition to the Vice President from the district in which the member resides. The petition should include a written description of the nature, type, and extent of Executive Council action recommended. The District Vice President shall forward copies of the petition to the President and to the Executive Director, who shall forward copies to all members of the Executive Council. Either the President or any member of the Executive Council may have the matter placed on the working agenda.

ARTICLE XII

Competition Jurisdiction

Section 1. Contest Boards shall be established by the Executive Council as required. A Contest Board shall consist of one member from each district. Contest Board members shall be appointed by the respective District Vice President and their term of office shall coincide with the Vice President's term of office. The District Vice President may replace a Contest Board member for cause at any time or upon the resignation of the Board member. One member of each Contest Board shall be appointed Chairperson of that Board by the

President. The President, or his delegate shall be the overall coordinator of Contest Board activities.

Section 2. The Executive Council has defined areas of responsibilities for competition jurisdiction, outlining those areas that are properly belonging to the Contest Boards and those belonging to the Executive Council. For this reason no member of the Executive Council shall be a chairman of a Contest Board.

Section 3. Each AMA Contest Board shall be charged with drafting national model competition and record rules, enforcement of same, review and evaluation of the rules on a periodic basis, making necessary revisions under the procedures outlined in the "Contest Board Procedures" document provided by the Executive Council. Additionally, various areas of jurisdiction are assigned to the Executive Council exclusively or to the Executive Council and Contest Board acting jointly. These divisions of jurisdiction are identified as subheadings within the various rule book sections.

Section 4. Except as provided in Section 5, international aeromodeling activity, including FAI matters, shall be coordinated under the supervision of the President, or his appointed delegate(s). Actions taken by the President or his appointed delegate(s) may be changed by 2/3 vote of the Executive Council. Additionally, the President or his appointed delegate(s) shall represent the United States at international model activities when necessary.

Section 5. The President or his designee shall be the FAI-CIAM delegate.

Section 6. The Executive Council shall retain power over Contest Board actions and procedures which may create unforeseen legal or conflicting policy questions for the AMA.

ARTICLE XIII

Official Publication

There shall be one or more official publications of the AMA to be published regularly as directed by the Executive Council. The role of these publications shall generally be to serve as a vehicle to accomplish the purposes of the AMA. They may offer information of general interest to the AMA membership and shall be among the means by which official information is distributed to the membership. The official AMA publications shall be prepared and distributed under the supervision of the Executive Director. The number and nature of official publications shall be determined by the Executive Council. The Council shall also decide whether any such publication shall be provided as a direct benefit of membership (automatically, via dues payment) or supplementary (at extra charge).

ARTICLE XIV

Order of Business

The order of business for each Executive Council meeting shall be determined by the President in consultation with the Executive Director. The President shall be the Chairperson of the meeting. The rules governing the conduct of all such meetings shall be determined by the Executive Council.

ARTICLE XV

Amendments

Recommendations for Bylaws changes may be proposed in writing by any member of the Executive Council, any member of the Bylaws Committee, or any 20 members of the Academy. The Executive Council shall direct proposed amendments to the Bylaws Committee for recommendations prior to deliberation by the Executive Council. If the recommended amendment(s) are accepted by a majority vote of the Executive Council, the amendment(s) must be ratified before adoption by a mail ballot to Leader members. An affirmative vote of 2/3 of Leader members responding within 45 days of issuance of a mail ballot shall adopt the amendment(s).

NOTE: Article IX—Nominations and Elections—Section 4. A "bona fide legal resident" has been defined by the AMA Executive

Council to be in accordance with the current address in the membership file at AMA Headquarters.

STANDING RULES TO THE BYLAWS OF THE ACADEMY OF MODEL AERONAUTICS STANDING COMMITTEE

Relating to Article X, Section 2

At the first meeting of each year, each Vice President will recommend a qualified replacement in case of the Vice President's incapacity or death.

GUIDELINES FOR NOMINATING COMMITTEE OPERATIONS

Composition of Committee:

- (a) All eleven Vice Presidents and the Executive Vice President are to sit on the Nominating Committee and will constitute the Committee in total. (Legal Council may attend **and should be consulted if a nomination is to be withheld from the ballot.**)
- (b) Members of the Nominating Committee shall not be barred from becoming a candidate for office themselves.
- (c) Vice Presidents who are unable to attend the Nominating Committee meeting may appoint a proxy to vote for his/her district.

Qualifications for being a proxy: you must have written permission (E-mail and faxes are acceptable) from the absent Vice President and be a current Associate Vice President or Leader Member from that district. Executive Vice President who is unable to attend the Nominating Committee meeting may appoint a proxy. His/her proxy can be a current adult member from any district, preferably a current Leader Member of the Academy.

- (d) The President and Executive Director are not to be a member of this committee and are not to appoint an ex officio or proxy.
- (e) The Committee meeting is open only to committee members (proxy included) and legal council.

Chairperson selection and responsibilities:

- (a) The chairperson shall be elected at an Executive Council meeting prior to the Nominating Committee meeting.
- (b) The chairperson shall be ratified by the President at that meeting.
- (c) The chairperson of the Nominating Committee will verify that all candidate proposals, acceptance statements, and resumes have been received within the time frame described in Candidates Guidelines. This should be done by the chairperson at least 20 days prior to convening of the committee meeting. Prior to this time AMA Headquarters will verify information as it is received and notify the chairperson of any potential problems. If any of these items are missing it is the responsibility of the committee chairperson to contact the candidate, informing him/her of the missing documents and the deadline by which this information should be received. **Chairperson should contact candidate by mail, E-mail, or telephone. Accurate record of times the candidate(s) have been contacted should be kept, if by mail it should be done certified, return receipt.** It will then be the responsibility of the candidate to supply the missing information. All documents must be present at the Nominating Committee Meeting.
- (d) At the discretion of the chairperson, legal council may be required to attend.
- (e) The chairperson is responsible for providing copies of all documentation to the rest of the committee at the beginning of the meeting.
- (f) The committee shall examine, evaluate, and discuss all written proposals for candidacy of office (see item c, Candidate Guidelines). The nomination letters shall be placed in evidence by the chairperson and at least one of the letters for each candidate shall be read aloud.
- (g) The discussion period shall be limited by the chairperson to reasonable time for ample discussion of the qualifications of each candidate.

Meeting Conduct:

- (a) The chairperson shall open the meeting and preside over the proceedings.
- (b) The chairperson shall appoint a recording secretary and a teller. The teller shall not be a candidate for office.
- (c) If an incumbent has been properly nominated and has accepted the nomination, he/she may elect to remain or leave the room during the discussion and/or voting for his/her office.
- (d) Ballot is limited to three (3) nominees, but not required, per office.

Recording Secretary and Teller—duties and responsibilities:

Recording Secretary shall:

- (a) Keep full, accurate, and detailed written minutes of the proceedings;
- (b) Within 24 hours after adjournment, give a full, written report including the results of all voting procedures to the President, Executive Vice President, Executive Director, and the Meeting Chairperson.

Teller Responsibility:

- (a) Shall distribute, collect, and tabulate all ballots with the assistance of the Recording Secretary.

Voting:

- (a) If only three names are submitted for a district or national office, the chairperson may move for a nomination by acclamation.
- (b) If placing an incumbent's name on the ballot is in question, voting on that issue shall precede voting for other nominees (see c, Candidate Guidelines).
- (c) Voting for placing candidate(s) on the ballot shall follow the sequence of President, Executive Vice President, Vice President.
- (d) One vote per committee member or proxy, per candidate.
- (e) A simple majority prevails (see c, Candidate Guidelines for exception).

Finalization of Proceedings:

- (a) At the conclusion of the meeting the committee will verify the minutes and ballot. Such verification will be a recorded vote which requires ³/₄ of the committee for acceptance. Failing such acceptance, the committee will continue to deliberate until such acceptance is reached. The ballot developed will be final for that election. The acceptance vote will be recorded during the ensuing council meeting.
- (b) The chairperson will present the written report/voting record of the Nominating Committee meeting to the Executive Council at the first meeting that occurs after the Nominating Committee meeting.
- (c) No person elected to and serving as an active member of the Executive Council shall be paid for any regular column or article in *Model Aviation* magazine. Exception may be made for such articles as the coverage of special events provided prior arrangement was made for said article. Articles and columns printed in the *AMA News* section are not paid contributions. No paid columns may be submitted after the individual has been placed on the ballot.

After the minutes have been presented to the EC, all notes, minutes and files shall be turned over to the Executive Director.

Adjournment:

An affirmative vote of an adjournment motion duly made and seconded will adjourn the meeting.

Candidate Guidelines:

- (a) No person may nominate him/herself for office.
- (b) No person shall simultaneously hold two positions on the Executive Council. In the event a person holding an office is elected or selected to a second position on the Executive Council, that person must choose which of the two positions he/she will continue, such decision to be made within 48 hours of the announcement of the selection, or else the person so affected will be deemed to have selected to remain in the first office held.

- (c) Incumbent is automatically placed on the ballot, provided that he/she has been properly nominated and accepted, except that a $\frac{3}{4}$ vote against may withhold the incumbent's name from the ballot (see Bylaws, Article IX, Section 2).
- (d) All nomination letters must be received at AMA Headquarters thirty (30) days prior to the convening of the Nominating Committee's Annual Meeting. If received by electronic mail or fax, it must be received by close of that business day at AMA Headquarters, Muncie IN.
- (e) Candidate must be a legal resident of the district in which the election is being held; this does not apply to the office of President or Executive Vice President.
- (f) Candidate must be a current AMA member with Leader Member status (other qualifications apply to the office of President and Executive Vice President, Article IX, section 2).
- (g) No person elected to and serving as an active member of the Executive Council shall be paid for any regular column or article in *Model Aviation* magazine. Exception may be made for such articles as the coverage of special events provided prior arrangement was made for said article. Articles and columns printed in the *AMA News* section are not paid contributions. No paid columns may be submitted after the individual has been placed on the ballot.

It is strongly recommended that nominations be mailed by certified mail, receipt requested.

Candidate Acceptance:

- (a) A letter of acceptance by the candidate must be on file at AMA Headquarters fifteen (15) days prior to the meeting; if by electronic mail or fax it must be received by close of that business day at AMA Headquarters, Muncie IN.
- (b) Along with a résumé of professional qualifications and model aviation experience, your résumé should include, but not be limited to, the following areas of consideration. (Note: all candidates must have their campaign statement ready to be delivered to AMA Headquarters no later than August 1.)
 1. Management experience.
 2. Financial background.
 3. Insurance employment and/or expertise.
 4. Legal background.
 5. Technical background, including areas of aeronautics, electronics (especially in radio frequency propagation and usage), acoustics (as related to noise studies and analysis), and other areas of engineering.
 6. Aeromodeling background must be noted. The individual will be required, if elected to national office, to deal with questions related to all areas of aeromodeling and should have a broad-based background.

It is strongly recommended that these documents be mailed certified, receipt requested.

OFFICERS

- (A) The following district vice presidents will be elected to a three year term in 1982 for the term 1983 through 1985; 2, 4, 6, 8, 10. The president's term will be extended one year, through 1983.
- (B) The following will be elected to a three year term in 1983 for the term 1984 through 1986; president, district vice presidents for 1, 5, and 9. The executive vice president and district vice president for 3, 7, and 11 will be given a one year term extension through 1984.
- (C) The following will be elected to a three year term in 1984 for the term 1985 through 1987; executive vice president, district vice presidents for 3, 7, and 11.
- (D) The following will be elected to a three year term in 1985 for the term 1986 through 1988; district vice presidents for 2, 4, 6, 8 and 10.
- (E) The following will be elected to a three year term in 1986 for the term 1987 through 1989: president, district vice presidents for 1, 5, 9.
- (F) Thereafter repeat three year cycles in sequence as per C, D, and E.

Adopted October 23, 1982

ASSOCIATE VICE PRESIDENT

Relating to Article X

1. APPOINTMENT OF ASSOCIATE VICE PRESIDENTS

- A.** In accordance with the Bylaws of the Academy, as revised 1 May 1989, each District Vice President shall appoint as many Associate Vice Presidents as authorized by Executive Council action. The number of Associate Vice Presidents will vary with District geographic area and member population.
- B.** The Associate Vice President shall be appointed, at the discretion of the District Vice President, in a manner that will best serve the needs of the District. This can be by geographic area or by assignment of a specific group of charter clubs within a District. Each Associate Vice President should be made aware of his/her area of responsibility.
- C.** Until such time as it becomes possible to fund for Associate Vice President travel within his/her area the relative size of the area should be kept as small as feasible. Excessive travel requirements of volunteers should be minimized.
- D.** Associate Vice Presidents may be removed at the discretion of the District Vice President. This could be for non performance in the area of recommended duties or other causes for lack of confidence in associations with members or the Vice President.

2. DUTIES OF THE ASSOCIATE VICE PRESIDENT

- A.** The Associate Vice President will provide a liaison between the District Vice President and the members within his/her assigned area.
- B.** The Associate Vice President will represent the Academy in all matters assigned by the Vice President.
- C.** The Associate Vice President will keep the Vice President informed on activities within his/her assigned area. This can consist of reports on a periodic basis, determined by the Vice President.
- D.** Any Associate Vice President may be selected to represent the District at an Executive Council meeting in the event of the inability of the Vice President to attend the meeting. In this case, the Associate Vice President has all the privileges of the Vice President except the right to vote on matters before the Executive Council.
- E.** The Associate Vice President will submit vouchers for reimbursement of any authorized funds. These vouchers must be submitted through the Vice President for approval.

3. INFORMATION AND MATERIALS PROVIDED FOR THE ASSOCIATE VICE PRESIDENT

- A.** Each Associate Vice President will be provided with the following materials:
 - (1) Stationery and envelopes
 - (2) Current headquarters directory
 - (3) Current list of chartered clubs
 - (4) Mailings on important matters dealing with safety, radio frequency, flying site acquisition in the area and other matters as determined by the Executive Council
 - (5) Business card supply
 - (6) Embroidery of shirts (as provided to the Vice President)

- B.** The District Vice President shall provide the necessary communications to the Associate Vice President to enable him/her to carry out the assigned responsibilities. When possible, periodic meetings should be held between the Vice President and the Associate Vice President.

- C.** The Vice President shall publicize the assigned area or grouping so that clubs within an area will know the person to contact for service. This listing should be made periodically in the Vice President's column in *Model Aviation* and/or through headquarter mailings to the chartered clubs.

Adopted October 1989

HANDLING COMPLAINTS WHICH MAY LEAD TO A HEARING

- 1.** A member complains to a member of the Executive Council or AMA Headquarters about actions of another member. Most complaints can be resolved at this stage by normal methods.
- 2.** If the complaint is serious, or cannot be resolved by normal

methods, the elected officer will consult with the Executive Director—or vice versa if the complaint was made to AMA Headquarters.

3. The Executive Director, the President, and the elected officer will evaluate the complaint and decide whether or not to send a form “Statement of Charges” to the complainant.
4. If a Statement of Charges is sent to the complainant, returned fully completed and executed, then the Executive Director will consult with the AMA President, the District Vice President, and legal counsel about the sufficiency of the Statement of Charges.
5. If the Statement of Charges is deemed sufficient an elected officer will be asked to support sending the notice of hearing by signing a simple statement that he or she supports the action. The elected officer is not asked to prejudge the matter, only indicate that the matter is grave enough to warrant a proceeding.
6. If the Statement of Charges is not deemed sufficient, or if for some other reason there is a decision not to proceed, the complainant will be notified of the decision.
7. If the decision is made to proceed, a Notice of Hearing will be sent to the accused member and to the complainant.
8. The hearing will be conducted by the Executive Council in executive session.

COMPLAINTS REGARDING CDs

Complaints regarding a Contest Director (CD) while acting in their official capacity as a representative of the Academy of Model Aeronautics should be made in writing to AMA Headquarters, who in turn will forward to the VP of the District where the complaint originated or where the infraction occurred.

The VP would review the written complaints and contact the complainant if additional information or clarification is required.

The VP would then contact the CD, explain the complaint and request a response in writing.

The VP will review the complaint and the CD’s response, and take whatever course of action is appropriate to resolve the problem, whether it is a warning or a revocation of the CD license. If there is a reprimand given, it should be in writing. The CD may appeal any action taken by the VP, in writing, and request the matter be reviewed by the Executive Council. The Executive Council could uphold the action taken by the VP, overturn it, or refuse to hear it.

*Adopted April 20, 1991
Amended October 27, 2001*

CONFLICT OF INTEREST

(A) All Executive Council or committee members with an economic interest in the subject matter under discussion should be required to disclose the conflict of interest at the outset of deliberations.

(B) All Executive Council or committee members with a conflict of interest should be disqualified from voting on the matter under discussion, but may be permitted to participate in the deliberations preceding the vote.

(C) The comments of an Executive Council or committee member having a conflict of interest should be confined to the open Executive Council or committee meeting at which the matter under consideration is being discussed. There should be no private discussions with members outside the forum of an open meeting, i.e., there should be no private “lobbying” of the other members.

(D) Appointing as chairman any committee person with an economic interest in matters falling under the committee’s jurisdiction shall be avoided wherever possible.

Adopted January 1989

OFFICIAL PUBLICATION

Relating to Article XIII

Section 1. Whenever, in the discretion of the Executive Director, any article, feature, report, or other writing submitted for publication in any official publication of the AMA is deemed to constitute, in whole or in part, a personal attack on any AMA officer or member, the Publications Committee shall have the authority to temporarily defer publication of such article, feature, report, or other writing and to refer the matter to the Executive Council for a determination as to whether publication should occur. Publication shall occur only upon an affirmative majority vote of the Executive Council. Any officer who is the author of, or the

target of, the article, feature, report, or other writing submitted for publication at issue shall not be entitled to participate in the deliberations or vote as to whether publication should occur. The vote may be taken by mail or at a Council meeting at which a quorum is present.

LEADER MEMBER

Relating to Article III

1. Article III of the Bylaws of the Academy of Model Aeronautics has the provision for membership category of Leader member. The document does not provide the enabling mechanism necessary for the proper identification and award of this category of membership. The Leader member is the most important of membership categories in terms of the operation of the Academy.

The Leader member is identified as an individual performing an above average interest in the Academy and its functions. There is a provision in the bylaws which gives the Leader member the right to vote in such cases as bylaws changes. Nominating procedures for national officers also require that a nominee be a Leader member. This being so, it is necessary that a means be incorporated which will permit the proper implementation of a program to identify and record those members qualified as Leader members of the Academy.

The procedures listed herein will be followed for future award of this category.

2. Application for Leader member status will be made by any Open member using the appropriate form obtained from AMA Headquarters. The form will, in addition to the requirement of endorsements, have provisions for a resume of qualifications. This will be identified to correspond to the three categories of Leader member, (Administration, Scientific and Industrial).

3. The application will be reviewed to determine the category(ies) for which Leader member status will be recognized.

4. Provision should be made for awarding certain individuals Leader membership as a result of service to model aviation. Examples are those individuals having performed extensive activities in the areas research and other areas of scientific endeavor. This also applies to those individuals in the industry having made continuing contributions to the Academy and the members. These two categories are not as likely as the Administrative leader to be identified and submitted by the general membership as that of the Administrative category.

5. Individuals will, upon being approved as a Leader member, receive a certificate printed on heavy stock and identified with the AMA gold embossed seal. The document will bear the signatures of the President and the Executive Director.

6. The Leader member is the highest level of membership and as such will be noted on the membership card. Other activity categories may be listed as space provides.

Adopted February 21, 1998

NATIONAL AEROMODELING CHAMPIONSHIPS

Purpose and Organization

Resolved, that the National Aeromodeling Championships (Nats) shall be identified by a AAAAA contest classification. Only one such competition may be held in a given year. The Executive Council shall be the sole determining authority, relative to whether the competition is to be held, the dates for its operation, and the location. The Nats operations shall be coordinated by AMA Headquarters. While the Academy is recognized as the primary contest sponsor, other entities and organizations may be recognized for co-sponsorship based on financial or other forms of association.

Purpose:

The primary purpose of the National Aeromodeling Championship (Nats) shall be to select a national champion in specific events as detailed in the official AMA rulebook called the Competitions Regulations. Ancillary purposes may be named if deemed appropriate for the nature of a national championships.

Structure:

The individual events for the National Aeromodeling Championships (Nats) shall be selected from the list of official events named within the official AMA rule book, the Competition Regulations. These may include those FAI world championship events in which AMA participates. However, events, either AMA or FAI, which are designated as Provisional or Supplemental will not be included in the competition agenda. Further, those which are designated within the rules as entry level events shall not be included. The events to be included, within the guidelines above, shall be determined by the Nats steering committee based on participation in previous Nats and sanctioned contest activity within AMA.

Competition Level:

It is recognized that the Nats represents a type of competition which includes an extremely wide range of events and interests. In an effort to maintain as much diversity in event offerings as possible and yet retain a high level of competitiveness, the following requirements shall be incorporated.

All events included in the Nats competition shall be run by the rules found in the current AMA Competition Regulations or the FAI Sporting Code. Deviations from those rules may be necessary due to the size and nature of the competition or site restrictions. These deviations will be clearly identified on the entry form and/or related publicity. These deviations may include, but are not limited to, such items as maximum number of participants in an event, frequency restrictions, number of rounds, etc.

A National Champion shall be named in each of the competition

categories listed in the Competition Regulations, provided one or more events from that category is included in the competition agenda for the Nats.

A winner in each category will be determined by awarding ten points for a first place finish, nine points for a second place finish and so on to tenth place, which will receive one point. Points are category specific (points gained in a Free Flight event do not count toward national Champion standings in Pattern). The National Champion will be the competitor with the highest total number of points in that Category. For those categories which limit participation solely to participant classification (RC Aerobatics, RC Helicopter), the award will be assigned to the FAI class, or the highest AMA class flown. Each winner will receive an award in the form of a plaque and cash.

Sanctioning:

The Nats is a unique event in that it is sponsored directly by the national organization. Sanctioning for the event is accomplished directly through Executive Council action. The following guidelines will be adhered to in the sanctioning of the Nats.

1. Following the approval of holding the competition by the Executive Council, all District Contest Coordinators will immediately be informed by mail of the dates and location.
2. Clubs or Special Interest Groups that may have traditional sanctioned contests with designations of AA or AAA scheduled in conflict with the dates for the Nats have the option of rescheduling without jeopardy of losing their traditional date status for the future.

Adopted January 21, 1995

Radio Control Operation

Operation of RC Flying Sites:

Frequency Control: It is necessary to maintain strict control of the operating transmitters at a flying site. Only one transmitter can be operated on any given frequency at the same time. Operation of more than one transmitter on the same frequency will cause loss of model control. Safe management of operating transmitters can be aided by:

1. Use of a transmitter frequency identification display as described in the Frequency Identification and Display document, paragraph 2.2.
2. Use of Frequency Pins to identify the frequency in use. Pins, often clothespins, are marked with the color(s) or channel number of the frequency it represents. Only one pin is available at the flying site for each frequency. Transmitters shall not be operated without possession of a pin that identifies the frequency in use.
3. Keeping transmitter antennas collapsed when models are not being flown.

Active frequency monitoring at flying sites is encouraged.

Scanning receivers or a spectrum analyzer are excellent monitors of unwanted signals.

It is recommended that Contest Directors or Club Officers require tests, or implement special frequency control arrangements, as may be necessary, to reduce the chance of interference among RC systems.

Transmitter requirements:

Narrowband transmitters are required for use with all Channel number frequencies (CH 00-09 and 11-90).

Identification of narrowband transmitters is normally accomplished by a sophisticated laboratory test. Narrowband transmitters can also be identified as follows:

1. All PPM/FM and PCM/FM transmitters are narrowband. Only AM transmitters sold as new, prior to March 1993, are suspect.
2. The manufacturer of a suspect AM transmitter can verify if it is narrowband. If it is not, the manufacturer may offer to modify it to narrowband specifications.
3. AM transmitters that were verified by test to be narrowband prior to March 1998, are considered to be narrowband. A gold-color sticker, marked "R/CMA AMA - RF CHECK" was formerly used to identify these tested transmitters. However, it is no longer required to display the R/CMA AMA Gold Sticker on these

transmitters.

Any user modification of a Transmitter that might affect the transmitted signal is prohibited by law and safety concerns. This includes user replacement of frequency determining plug-in crystals and use of plug-in frequency modules from another manufacturer. Transmitter crystal replacement, with or without a change in frequency, requires transmitter emission realignment by the manufacturer. Use of a frequency determining module manufactured for use in another brand transmitter, can result in off frequency and spurious emissions that cause interference to other fliers.

Receiver requirements:

Receivers that meet the AMA Guidelines of reference 2 are recommended for use at flying sites where several Channel number frequencies are in simultaneous use. Receivers that do not meet the AMA Guidelines (reference 2) may experience interference when operated at an active flying site with several transmitters operating simultaneously.

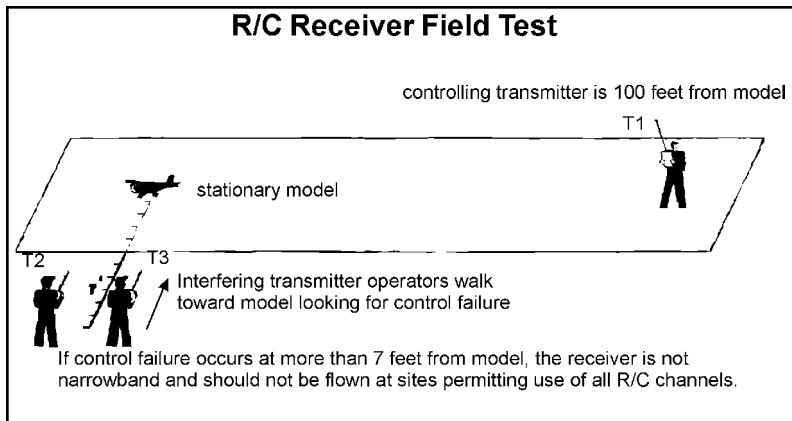
Identification of AMA Guideline receivers is normally accomplished by a sophisticated laboratory test. The manufacturer of a receiver can identify if it is a design that meets the AMA Guidelines of reference 2.

A go-no go field test can determine if a receiver has acceptable, but not necessarily AMA Guideline, performance. The test requires the use of two interfering transmitters in addition to the controlling transmitter. The two interfering transmitters can be on any channel other than the controlling channel and can use any combination of AM or FM emission. All three transmitters must be on different channels in the same RC band. The two aircraft RC bands are: CH 00-09 and CH 11-60.

The following **RC Receiver Field Test** diagram shows the location of the field test equipment. To perform the test, the controlling transmitter T1, is located 100 feet from the stationary model using the receiver being tested. The individuals holding the interfering transmitters, T2 and T3, are along a line, ten feet apart, parallel to the 100-foot base line. Starting at 15 feet from the model, they walk together toward the model. All three transmitter antennas are fully extended and transmitters operating. The individuals with the interfering transmitters observe and note when any loss of control occurs. Control failure can occur in either AM, FM, or PCM receivers. The minimum acceptable distance the interfering

transmitters can be from the model when control is lost is seven (7) feet. If it is greater than seven feet, the receiver is not recommended for use at an active flying site.

RC Receiver Field Test



Pre-flight range testing of a receiver/transmitter pair is highly recommended. The installed receiver should be range tested in accordance with instructions provided by the original equipment manufacturer. If the instructions are not available, perform the range test in the following way:

With the model on the ground, on a slightly elevated, non-metallic surface, or held overhead by another person, walk away from the model with the operating control transmitter until control failure occurs. The transmitter antenna should be fully extended during the test. Satisfactory control at a ground distance of 1,000 feet or more is an acceptable range test. Control failure at a shorter distance warrants RC equipment and installation corrective action, or restriction of operating range.

Single conversion superheterodyne receivers are subject to unwanted reception on the receiver's Image frequency that can be a source of interference. The choice of local oscillator crystal frequency, above or below the receive frequency, determines the Image frequency. An appropriate choice of local oscillator crystal frequency can place the unwanted reception frequency where the potential for interference is minimized. The following local oscillator crystal frequency locations are recommended for single conversion receivers using a 455 KHz IF. The recommended choice reduces the potential for interference on the Image frequency.

Band/Frequencies	Local Oscillator Frequency	Location
27 MHz/SINGLE COLOR or a 27 MHz CHANNEL number	LO below receive frequency	
53 MHz/TWO COLOR	LO below receive frequency	
50 MHz/CH00 to CH09	LO below receive frequency	
72 MHz/CH11 to CH14	LO below receive frequency	
72-MHz/CH15 to CH56	LO either above/below receive frequency	
72 MHz/CH57 to CH60	LO above receive frequency	
75 MHz/CH61 to CH90	LO below receive frequency	

Single conversion 72 MHz receivers, using a 455 KHz IF frequency, that do not use the recommended local oscillator frequency location, are subject to interference from non-RC 72 MHz transmitters operated by industrial users. Receivers configured in this way can also receive interference from RC transmitters operating on channels at the opposite end of the 72 MHz band.

For example: A single conversion CH 11 receiver is tuned for normal reception on 72.01 MHz. If the recommended local oscillator frequency location is not used, it also receives signals on an Image frequency of 72.92 MHz, a frequency licensed to industrial users. Also, this Image frequency is only 10 KHz away from CH56 and CH57. Interference from nearby CH56 and CH 57 transmitters and an industrial transmitter using 72.92 MHz is possible.

Frequencies for Radio Control:

1.0. The Federal Communications Commission (FCC) allocates and manages radio signals and emissions in the United States, including those used for radio control (RC) of models. The transmitters and receivers used for RC must be manufactured to FCC specified technical requirements and operated on specific radio frequencies and bands. More complete information is available in the *Code of Federal Regulations (CFR)*, reference 1. This document lists the current radio bands designated for remote control of models.

1.1. RC is permitted in three Personal Radio Service bands

1.1.1. The 27 MHz band uses six frequencies listed in paragraph 2.1.1. RC of model aircraft and surface craft is permitted. Model aircraft RC users should be aware of possible interference from nearby RC surface craft users. In addition, 27.255 MHz is shared with non-RC services and is not recommended for RC of model aircraft.

1.1.2. The 72 MHz band uses fifty frequencies listed in paragraph 2.1.2. Only RC of model aircraft is permitted. Model aircraft include model rockets, control line model aircraft, and lighter-than-air balloon models.

1.1.3. The 75 MHz band uses thirty frequencies listed in paragraph 2.1.3. Only RC of model surface craft is permitted. Model surface craft include model cars, boats, robots, and hovercraft.

1.2. RC is permitted in the Amateur Radio Service bands in accordance with FCC regulations, CFR Part 97, ref 1.

1.2.1. Eighteen Amateur Radio Frequencies listed in paragraph 2.1.4. and 2.1.5., are traditionally used by Licensed Amateurs for RC of all types of models. RC operation in the Amateur bands is shared with other Amateur Radio services, so RC is subject to interference from non-RC users. Station identification of RC transmissions is not required. Narrowband transmitters are required on CH 00 to CH 09 when operating at AMA sanctioned events. Narrowband transmitter technical requirements are defined in reference 2.

1.3. RC is permitted using the Low Power band:

1.3.1. Five Frequencies, 49.83 MHz to 49.89 MHz on 0.015 MHz spacing, are used for RC of all types of devices as well as short-range communication services.

Frequency Identification and Display:

2.0. Frequency control at an RC operating site is necessary to prevent simultaneous operation of transmitters on the same frequency. Simultaneous operation on the same frequency causes loss of control even if the transmitters use different forms of modulation or coding, such as AM, FM, or PCM. The AMA recommends that the transmitter operating frequency be identified with an easily recognized display as described in the following paragraphs.

2.1. Frequency Identification: The radio frequencies are listed in Megahertz (MHz) units. For convenience, SINGLE COLOR, TWO COLOR, CHANNEL number, and 27 MHz CHANNEL number, designate the frequencies.

2.1.1. 27 MHz Band - Identified as SINGLE COLOR or 27 MHz CHANNEL number frequencies:

26.995 - BROWN	or	27 MHz CHANNEL	1
27.045 - RED	or	27 MHz CHANNEL	2
27.095 - ORANGE	or	27 MHz CHANNEL	3
27.145 - YELLOW	or	27 MHz CHANNEL	4
27.195 - GREEN	or	27 MHz CHANNEL	5
27.255 - BLUE	or	27 MHz CHANNEL	6

2.1.2. 72 MHz Band - Identified as CHANNEL number frequencies:

72.01	CHANNEL 11	72.51	CHANNEL 36
72.03	CHANNEL 12	72.53	CHANNEL 37
72.05	CHANNEL 13	72.55	CHANNEL 38
72.07	CHANNEL 14	72.57	CHANNEL 39
72.09	CHANNEL 15	72.59	CHANNEL 40
72.11	CHANNEL 16	72.61	CHANNEL 41
72.13	CHANNEL 17	72.63	CHANNEL 42

72.15	CHANNEL 18	72.65	CHANNEL 43
72.17	CHANNEL 19	72.67	CHANNEL 44
72.19	CHANNEL 20	72.69	CHANNEL 45
72.21	CHANNEL 21	72.71	CHANNEL 46
72.23	CHANNEL 22	72.73	CHANNEL 47
72.25	CHANNEL 23	72.75	CHANNEL 48
72.27	CHANNEL 24	72.77	CHANNEL 49
72.29	CHANNEL 25	72.79	CHANNEL 50
72.31	CHANNEL 26	72.81	CHANNEL 51
72.33	CHANNEL 27	72.83	CHANNEL 52
72.35	CHANNEL 28	72.85	CHANNEL 53
72.37	CHANNEL 29	72.87	CHANNEL 54
72.39	CHANNEL 30	72.89	CHANNEL 55
72.41	CHANNEL 31	72.91	CHANNEL 56
72.43	CHANNEL 32	72.93	CHANNEL 57
72.45	CHANNEL 33	72.95	CHANNEL 58
72.47	CHANNEL 34	72.97	CHANNEL 59
72.49	CHANNEL 35	72.99	CHANNEL 60

FCC Legal Requirements and Safety Recommendations

3.0. RC users shall comply with FCC regulations. Some of the more pertinent regulations have been presented in this document. Complete RC regulations are contained in the CFR, reference 1. RC users of the 27 MHz, 72 MHz, and 75 MHz bands are required to comply with the CFR Part 95. RC users of the Amateur Radio Service are required to comply with the CFR Part 97. RC users of the Low Power band are required to comply with CFR Part 15, Subpart D. The AMA will not assume responsibility for enforcement of the CFR. However, if the violation impacts safety, corrective action may be taken.

3.1. AMA RC Event Officials shall enforce FCC Amateur Radio Operator licensing requirements. Use of legal Amateur Radio Service frequencies other than those listed in paragraph 2.1.4. and 2.1.5. is permitted at sanctioned events at the discretion of the Event Officials. For these frequencies, black and white ribbons, with the frequency inscribed on the white ribbon is an acceptable frequency display.

3.2. The FCC prohibits radio transmissions on any 72 MHz or 75 MHz Channel frequency for the purpose of telemetering data. Event signaling by radio telemeter is permitted on the 27 MHz RC frequencies.

3.3. Control interference between adjacent flying sites separated by less than three miles may occur if the same frequencies are used at both sites. The AMA Safety Code regulates AMA club flying sites to avoid such interference. However, small size RC models, often flown in backyards and parks, are unregulated, and can be a source of interference between sites. Backyard/Park flying site adherence to the AMA Safety Code, Radio Control, Item 5, is encouraged to eliminate adjacent site interference.

The AMA's RC newcomer educational literature addresses this issue. It is requested that the manufacturers of the ready-to-fly (RTF) Park and Backyard RC flying models provide this literature at the point of sale, or suggest visiting <http://parkflyer.org>.

It is also requested that the manufacturers of RTF model kits, containing both the model and RC equipment, provide the RTF RC equipment on the 27 MHz band instead of the 72 MHz band, to minimize the potential of interference to AMA sites.

References:

1. Code of Federal Regulations: (CFR) Title 47, Telecommunications: Part 0 to 19, Revised October 1, 2001 and Part 80 to End, Revised October 1, 2000.

Special reference is made to the following:

- Part 2 - Certification Procedure, Subpart: Equipment Authorization Procedure; starting with paragraph 2.901
- Part 15 - Radio Frequency Devices: Subpart C - Low Power Communication Devices; General Requirements and paragraphs 15.235 (49.82 to 49.90 MHz) apply.
- Part 95 - Personal Radio Service (PRS): Subpart C - Radio Control (R/C) Radio Service: Paragraphs 95.201 to 95.225 apply. Subpart E - Technical Standards for PRS Devices: Paragraphs 95.601 to 95.673 apply.
- Part 97 - Amateur Radio Service: all paragraphs apply.

2.1.3. 75 MHz Band - Identified as CHANNEL number frequencies:

75.41	CHANNEL 61	75.71	CHANNEL 76
75.43	CHANNEL 62	75.73	CHANNEL 77
75.45	CHANNEL 63	75.75	CHANNEL 78
75.47	CHANNEL 64	75.77	CHANNEL 79
75.49	CHANNEL 65	75.79	CHANNEL 80
75.51	CHANNEL 66	75.81	CHANNEL 81
75.53	CHANNEL 67	75.83	CHANNEL 82
75.55	CHANNEL 68	75.85	CHANNEL 83
75.57	CHANNEL 69	75.87	CHANNEL 84
75.59	CHANNEL 70	75.89	CHANNEL 85
75.61	CHANNEL 71	75.91	CHANNEL 86
75.63	CHANNEL 72	75.93	CHANNEL 87
75.65	CHANNEL 73	75.95	CHANNEL 88
75.67	CHANNEL 74	75.97	CHANNEL 89
75.69	CHANNEL 75	75.99	CHANNEL 90

2.1.4. 50 MHz Band - Identified as CHANNEL number frequencies:

50.80	CHANNEL 00	50.90	CHANNEL 05
50.82	CHANNEL 01	50.92	CHANNEL 06
50.84	CHANNEL 02	50.94	CHANNEL 07
50.86	CHANNEL 03	50.96	CHANNEL 08
50.88	CHANNEL 04	50.98	CHANNEL 09

2.1.5. 53 MHz Band - Identified as TWO COLOR frequencies:

53.10	BROWN/BLACK	53.50	GREEN/BLACK
53.20	RED/BLACK	53.60	BLUE/BLACK
53.30	ORANGE/BLACK	53.70	PURPLE/BLACK
53.40	YELLOW/BLACK	53.80	

GREY/BLACK
Other Amateur Radio frequencies: WHITE/BLACK

2.2. Frequency Display: The AMA strongly recommends that RC transmitters display operating frequency in the following manner:

2.2.1. SINGLE COLOR frequencies: SINGLE COLOR frequencies should display a single ribbon of the operating frequency color attached to the transmitter antenna.

2.2.2. 27 MHz CHANNEL number frequencies: 27 MHz CHANNEL number frequencies should prominently display the number on the transmitter RF module or case.

2.2.3. TWO COLOR frequencies: TWO COLOR frequencies should display two ribbons of the operating frequency colors attached to the transmitter antenna.

2.2.4. CHANNEL number frequencies: CHANNEL number frequencies should display the CHANNEL number on a plaque attached to the transmitter antenna. The displayed number should be easily visible to other RC users.

Guidelines for Acceptable Introduction of a Full Set of RC Frequencies;

AMA Frequency Committee, Fred Marks, revised 2002.

Guidelines for Acceptable Introduction of a Full Set of RC Frequencies for Radio Control Using the 72-76 MHz Radio Service Bands

1.1. These are voluntary Guidelines for the design, manufacture, and operation of Radio Control (RC) equipment for use on the FCC allocated 72-76 MHz RC Radio Service bands. It is recommended that these Guidelines be applied to all transmitters and receivers designed for radio control of model aircraft and model surface craft on these bands.

1.2. General Requirements.

1.2.1. The AMA, equipment manufacturers, and marketers, urge that RC equipment manufactured or imported into the United States meet certain minimum performance requirements stated below in order to provide reliable remote control performance.

1.2.2. It is urged that all RC equipment comply with these Guidelines. Transmitters that are configured for user frequency selection should have frequency selection by CHANNEL number. It is desired that it be impossible to change frequency while the transmitter is operating.

1.2.3. Equipment intended for control of model surface craft can be operated only on 75 MHz frequencies. Equipment intended for control of model aircraft can be operated only on 72 MHz frequencies.

1.3. RC Transmitter Technical Guidelines and Measurements

1.3.1. RC Transmitters should have frequency stability and emission bandwidth characteristics consistent with narrowband performance. Narrowband performance is required by the FCC (reference 1) for all transmitters Type Accepted after March 1, 1992 and marketed or sold on or after March 1, 1993. Transmitters Type Accepted (certificated) prior to March 1, 1992 may or may not be narrowband. Transmitters that are not narrowband are illegal to operate.

1.3.2. Transmitter Type Accepted (certificated) prior to March 1, 1992 can be tested for narrowband performance. Transmitters not meeting narrowband requirements can be modified by their manufacturer to meet narrowband performance requirements.

1.3.3. Transmitter narrowband requirements:

1.3.3.1. Transmitter occupied spectrum shall be better than -55 dB at +/- 20 kHz from channel center frequency, irrespective of type of modulation. The measurement shall be made with a spectrum analyzer using a 3 kHz resolution bandwidth filter.

1.3.3.2. Transmitter emission frequency shall meet the following requirements over a range of operating temperature and power supply voltage:

- a. AM transmitters: the unmodulated carrier shall be within +/- .002% of channel center frequency.
- b. FM transmitters: the mean frequency of the occupied spectrum shall be within +/- .002% of channel center frequency.
- c. Other forms of modulation are required to meet emission characteristics of paragraph 1.3.3.1 above.

1.3.4. An R/CMA-AMA Gold Sticker may have been affixed to narrowband transmitters and/or RF modules to denote narrowband performance.

1.3.5. Transmitters that are configured for user frequency selection via RF module changing, switching, or synthesized techniques are permitted. However, transmitter output must be within the guidelines listed in paragraph 1.3.3, irrespective of the operating frequency selected.

1.3.6. The AMA Executive Council has authorized Contest Directors to impose transmitter processing at their discretion. Therefore, the user should be prepared to demonstrate that his transmitter is within specification in accordance with paragraph 1.3.3 above. Where RF module change, or frequency switching is to be used, the transmitter shall be subject to processing on all frequencies planned for use.

1.4. RC Receiver Technical Guidelines and Measurements

1.4.1. For purposes of standardization, proper receiver operation during tests should be taken as "greater than 10 dB signal-to-noise ratio at detection" (10 dB SINAD).

1.4.2. Adjacent Channel Rejection: The receiver must reject all adjacent channel signals by 60 dB or better at +/- 8 1/2 kHz as demonstrated by laboratory test.

1.4.3. Image Rejection: Receivers having an image response within its operating band (i.e., within the 72 or 75 MHz RC band), or any other AMA recommended band for RC model operation, must be shown by laboratory test to have image signal rejection greater than 60 db.

1.4.4. Intermodulation Interference Rejection.

1.4.4.1. Receivers must be shown by laboratory test to have a Third Order Intercept Point at the output of the first mixer better than -4 dBm.

1.4.4.2. Intermodulation distortion and spurious response in the presence of high power radiators shall be measured.

For this test, single or two-signal high-powered radiators, and the encoded control signal are either:

- a. signal inputs made directly to the receiver antenna terminal, or
- b. signal input from a quarter wavelength radiator uniformly parallel to the receiver antenna.

Radiated levels of the high-powered radiator(s) shall be:

- a. minus eight (-8) dBm, when made directly to receiver antenna terminal, if a 50 ohm match is achievable or
- b. plus ten (+10) dBm, when radiated from a quarter wavelength radiator 18 inches away from receiver antenna. Radiated level of the encoded control signal shall be no less than 23 dBm below the level of the high-powered radiator(s).

1.4.4.2.1. Receivers shall exhibit no loss or spurious response in decoded servo output greater than +/- 20 microseconds when the receiver is subjected to single or two-signal radiation as follows:

- c. Single radiator at any frequency equal to or greater than +/- 20 kHz from channel center frequency.
- d. Two-signal: when two radiators are applied at any combination of frequencies that can produce a first mixer output within the bandpass of the receiver.

1.4.4.2.2. Single-conversion receivers with a 455 kHz intermediate frequency shall meet the requirements specified in 1.4.4.2.1., except for signal frequencies that excite a unique response at the image frequency.

1.4.4.2.3 Single-conversion receivers using a 455 kHz intermediate frequency shall have a local oscillator offset (high-low injection) in accordance with the Radio Control Operation document, page 16. The operating frequency of local oscillators used in receivers of a different configuration shall be at the manufacturer's discretion.

REFERENCES

1. CODE OF FEDERAL REGULATIONS: (CFR) Title 47, Telecommunications: Part 0 to 19, Revised October 1, 2001 and Part 80 to End, Revised October 1, 2000.

Special reference is made to the following:

· Part 2 - Certification Procedure, Subpart: Equipment Authorization Procedure; starting with paragraph 2.901

· Part 95 - Personal Radio Service (PRS): Subpart C - Radio Control (R/C) Radio Service: Paragraphs 95.201 to 95.221 apply. Subpart E - Technical Standards for PRS Devices: Paragraphs 95.601 to 95.673 apply.

General AMA Information

AUTOMATED PHONE SERVICE

The Academy of Model Aeronautics features an automated phone service that allows callers to connect directly with a given extension. To use this service, you must have a touch-tone telephone. The caller waits for the attendant to answer the call and then can either listen for the instructions that include a brief listing of department extensions, or can immediately push the number of the requested extension. To return to the attendant or to reach the operator, push "0."

The section at the back of this manual lists many of the services offered by AMA and the extension number(s).

AWARDS

Fellowship—A Fellowship is the very highest honor AMA can bestow on an individual. It carries free AMA dues for the remainder of the grantee's life. Generally, after 10 years of outstanding service by non-salaried members. Council approval necessary.

President's Award—The President may use this award to honor or acknowledge, express recognition or thanks, for service or grants, gifts, and/or the like to persons, organizations, or institutions.

Legion of Honor—The Executive Vice President can use to thank persons, clubs, organizations, companies, and the like, for money contributions to AMA. This includes pledges, endowments, gifts and and acknowledgements pecuniary in nature.

Distinguished Service Award—AMA's second highest award for individuals. For long time service, voluntary in nature. Our Academy's way of thanking someone for contributions, efforts, and time spent serving and working. Council approval necessary.

Superior Service Award—A nationally recognized and heralded award for long service of a superior nature. Council approval necessary.

Award of Excellence—For AMA Chartered Clubs. The highest award for clubs. Council approval necessary.

Award of Merit—This award created to provide the District Vice President with a manner of honoring a Chartered Club within his District. Council approval only after three within a calendar year.

Meritorious Service—For outstanding service that has been performed by council member and is automatically issued to outgoing members.

District Service Award—This award created to provide a District Vice President with a manner of honoring an individual within his District. Council approval only after three within a calendar year.

Exemplary Service Award—This award created specifically to honor AMA Council Members.**

Hall of Fame—This award is not directly attributable to the AMA Council. It is conducted by the "Hall of Fame Selection Committee." Includes Life Membership in AMA.

John A. Zaic Memorial Award—This award was created to recognize aeromodelers who have contributed to the history of model aviation.

***Three years of service automatically qualifies a Council Member to receive an Exemplary Service Award. Six years of serving on the Council automatically qualifies a Council Member to receive a Distinguished Service Award. Nine years of serving on the Council automatically qualifies a Council Member to receive a Fellowship.*

CHARTER CLUB PROGRAM

The Academy established a program in the mid-1960s for local AMA members to join together as a group and secure use of private, commercial or public property for flying sites. This was structured under the concept of organized groups which were identified as AMA Chartered clubs.

Today, the Academy provides liability coverage to approximately 2,600 chartered clubs throughout the United States. Liability coverage for individual AMA members does not extend to a club. Without liability coverage, a club's assets may be lost, and a club may find itself without means to defend a suit.

Under the chartered club program, liability coverage is provided and extends to claims arising from model flying accidents as well as non-flying accidents. To a property owner who is approached for a flying site, the concern may not be whether the club is protected, the concern is for self-protection. Through the chartered club program, a club is able to provide the property owner with a certificate naming the owner as "additionally insured," usually resulting in property use being granted. The liability coverage for the property owner is primary with limits of \$2,500,000 per occurrence and \$5,000,000 per location. This applies to any additional insured, be it private, commercial, or publicly owned.

Chartered clubs are also eligible for additional programs such as flying site help, Introductory Pilot Program, frequency monitoring and sound measuring assistance, model building curriculum known as the Delta Dart program, and the *AMA National Newsletter*.

For a package containing more information on how to become an AMA chartered club, please contact the Club Secretary at AMA Headquarters, Ext. 291.

CREDIT CARD SERVICES

AMA has partnered with U.S. Bank to provide a credit card that helps you to support the sport, the AMA, and put money in your pocket! Check it out today at www.usbank.com/affinitycreditcards/?loc=9485.

EDUCATION ACTIVITIES

In 1995, the Academy established the staff position of Education Coordinator and a committee whose designated responsibility is to address the following mission statement.

The mission of this committee is to provide the Academy guidance and assistance in the formulation, implementation, evaluation, and dissemination of educational programs and policies. This guidance and assistance should help AMA realize the ideals outlined in its vision and mission statements and assist the Executive Council in its effort to further the educational role of the Academy. For more information, visit the Education Web site at www.buildandfly.com.

Education Activities

The Academy maintains education programs directed toward new comers to the hobby/sport of aeromodeling. Information is available for a wide range of ages and interests from youth to senior citizens. A partial listing of the activities includes:

- 1) Youth Education Stipend—(YES)**—Grants up to \$500 available to AMA chartered clubs for designing and implementing programs directed toward school and community groups.
- 2) Teacher-oriented materials**—The development and maintenance of classroom related activities designed to stimulate interest by using aeromodeling as an educational tool within all elements of the curriculum.
- 3) Model Aviation Focus on Education Column**—Presenting information monthly, the purpose of the column is to provide educational information pertaining to aeromodeling.
- 4) Networking**—Working through teacher's conventions, forums and industry liaison, AMA is providing information relative to successful, established program models that exist within the aeromodeling community. Abstracts can be obtained from Headquarters or by computer Web pages.

For specific information, members are encouraged to contact the Education Coordinator at AMA Headquarters or Education Committee members.

FLYING SITE DEVELOPMENT/IMPROVEMENT GRANT PROGRAM

An AMA Flying Site Development/Improvement Grant, if

approved, will provide up to 10% of the total cost of the project. Grant applications are due to your District Vice President on or before March 15. The District Vice President will review and approve the application and forward it to AMA Headquarters for arrival on or before April 1. Applications received after April 1 will not be processed. Grants awarded will be announced May 1 for each calendar year.

One original and four copies of the Grant Application signed by the club president and approved by the District Vice President will be submitted to:

Flying Site Grant Application
Academy of Model Aeronautics
5161 East Memorial Drive
Muncie IN 47302
Attention: Programs Department

Status reports will be submitted to AMA Headquarters every six months with the final report describing completion of the project.

Any AMA funds exceeding 10% of the final total cost of the project must be returned to AMA.

INTERNATIONAL AEROMODELING CENTER FLYING SITE USE

The International Aeromodeling Center (IAC) Flying Site is available for year-round use by AMA members. During special events or contests, certain areas or the entire site may be closed to open flying. It is always recommended that you call the Events Department (800) 435-9262, ext. 204, in advance to ensure that the area of the site you wish to use is available during the time of your visit. A calendar of events for the IAC is available at www.modelaircraft.org/events.

There are no fees associated with the use of the flying site itself; however, rental fees might apply for any equipment AMA provides for events. Prior to your event at the IAC, please contact the Events Department with a list of any special equipment that may be needed for your event. Be sure to pick up a copy of the Site Use Rules at the museum prior to flying.

If you wish to run an event at the IAC, the steps are simple. No events (except those run directly by AMA) are given traditional status. A letter or E-mail requesting site use must be sent to the Events Department up to one year in advance of the event date. The letter or E-mail should include the following:

- 1) Requested date(s) along with an alternative date
- 2) Contest Director's name and contact information
- 3) Type of event
- 4) Expected number of participants
- 5) Area(s) of the site you would like to use
- 6) If you would like any special equipment be provided by AMA

All site request letters should be mailed to the attention of the Events Department. E-mail requests may be sent to site@modelaircraft.org. Once the site request letters are received, a preliminary working calendar is organized.

A committee made up of one member from the Executive Council, Event Coordinator, and a member-at-large serve as the Site Use Committee. This committee will review the working calendar and each event listed on that calendar. If no date conflicts or other problems exist, the calendar is approved. If problems exist, the committee works with the CDs involved in an effort to resolve the issue. Once the use of the site is obtained, the CD must mail the normal Application for Sanctioned Event to the proper District VI Contest Coordinator. If the date(s) are approved by the coordinator, the event is placed on the official schedule for the International Aeromodeling Center. All aeromodeling events conducted at the center must be sanctioned by AMA.

It is recommended the CD of the event contact the Events Department to discuss any setup or equipment needs one week prior to your event. All equipment use and event setup needs must be coordinated with the Event Coordinator at AMA HQ.

INTRODUCTORY MEMBERSHIP PROGRAM

Show a friend or neighbor our new \$19.95, Introductory Membership program! Help them get started in this exciting sport today! Get all the details at www.modelaircraft.org/trialmemberapp.aspx.

We respect the privacy of our members. Occasionally the Academy endorses mailings to our members for approved special programs. At no time do we sell or give our membership list to any outside solicitors.

INTRO PILOT PROGRAM

Many AMA Chartered Clubs have instructor programs for newcomers to the hobby/sport of aeromodeling. Such programs help both the club and model aviation grow. However, many people wishing to get involved with model flying do not necessarily want to join a club or purchase an AMA membership until they are sure they will like the hobby/sport and do well enough to wish to invest in equipment.

The AMA Introductory Pilot Program caters to such people. This program allows a non-AMA member to fly at a club field and be AMA insured for liability coverage provided the new flier is under the supervision of a chartered club designated Introductory Pilot. The designated Introductory Pilot must be an adult AMA member and the chartered club must submit the Introductory Pilot application designating him or her along with the \$5 Administrative Fee.

Individuals who are designated as Introductory Pilots must keep records of every activity involving non-AMA members, including ground instruction and flying lessons. Full details of this Program are available from your Club Secretary or directly from AMA.

LEADER CLUB AWARDS

In order to recognize the leadership of the best model clubs, the Academy has established the AMA Leader Club Awards. These awards can be earned by any AMA Chartered Club, by meeting certain standards of community service and activity.

There are three levels of AMA Leader Clubs: Bronze, Silver and Gold. Once a club meets the minimum criteria, it qualifies for different levels based on performance.

AMA has established 14 goals for Leader Club status. Five of these goals are required. A club that meets the required five goals, plus three of the electives, qualifies as a Bronze level Leader Club. Meeting the required five plus six electives qualifies the club for the Silver level. The ultimate recognition, Gold level, requires that all goals be met.

Each goal must be documented. In the event an elective does not pertain to your club's operation, an explanation included with your club's application is all that is necessary for inclusion in the program. For example, a club that is a soaring club exclusively and uses only winches or hi-starts will not have to deal with sound limitations at their field. Consequently, they remain eligible for Gold status. Their explanation will satisfy Elective #5. The same holds true for a free flight club that is not faced with frequency concerns. Elective #1 would be satisfied with an explanation of their specific situation.

Each year your club will be sent forms and instructions by which the club will be able to show their goals and achievements. These currency reports will be the documentation required for continued participation in the Leader Club program.

Required Activities for Leader Club Status:

- 1) AMA Chartered Club for a minimum of five years. Club membership is open to all AMA members and is not limited to a certain number.
- 2) Club has developed and posted Safety and Operational Rules at its flying site.
- 3) Club has filed a copy of Safety and Operational Rules at AMA Headquarters.

- 4) Flying field has separate areas for fliers and spectators, clearly marked as such.
- 5) The AMA Safety Code is posted and visible at the field.

Leader Club Electives:

- 1) Club has implemented and enforces a frequency control plan that allows all 50 RC channels to be used at its club flying site where RC is allowed.
- 2) Club has implemented an AMA Adopt-A-School program or donates a Model Aviation magazine subscription to schools or libraries.
- 3) Club conducts a review of the AMA Safety Code at a club meeting at least once a year.
- 4) Club sponsors an annual public event, such as a mall show, flying show or demonstration.
- 5) Club monitors noise levels and/or institutes club field rules such as a requirement that models be operated at a maximum of 90 db at 9 feet.
- 6) Club has created an informational handout and provides it to the general public.
- 7) Club participates in charity programs or public fund-raising events.
- 8) Club has a formal lease or agreement for the use of its flying site or owns its site.
- 9) Club participates in the AMA Introductory Pilot Program or has its own instruction program.

**LEE RENAUD
MEMORIAL LIBRARY**

The Lee Renaud Memorial Library contains many valuable publications, archival collections, and biographies detailing the rich history of model aviation. As an AMA member, you are welcome to visit the library during operation hours and look at these books and magazines for yourself.

If extensive research is needed and you are unable to visit yourself, AMA does offer research services. Cost to reproduce one magazine article with known reference (name of magazine, with month and year):

Museum Patron	\$3
AMA Member	\$4
All others	\$5

Payment for article reprints must be received prior to shipment. Make checks payable to AMA and send to AMA Headquarters, 5161 East Memorial Drive, Muncie, IN 47302 Attn: AMA Librarian.

Other requests will be done on an hourly fee schedule, rounded to the nearest quarter-hour.

Museum Patron	\$25/hr
AMA Member	\$30/hr
All others	\$35/hr

Please be specific as to the information required, and try to limit each request to one issue/question. If your needs are more extensive you may wish to come in person or hire someone to do your research. The only cost for in-person research is \$.15 per page of photocopied material.

Fees charged for library research are structured to cover the cost to the Academy. Please remember that nonpayment represents a cost to all other members.

LIFE MEMBERSHIP INFORMATION

For a contribution of \$1,500, you become an AMA contributing member with Life membership privileges.*

As a contributing member of The Academy of Model Aeronautics, you advance the purpose of AMA by financially supporting AMA programs.

Your Life membership provides automatic annual renewal of AMA membership which includes:

- 1) Model Flier’s License
- 2) Publication Service (Model Aviation magazine which includes AMA News and Competition News)
- 3) Permanent Metal License Card
- 4) Life Member Cloth Patch
- 5) Continuing recognition of your contribution through issuance of special “L” AMA number. Example: L165.

Your contribution for Life Membership is tax-deductible under Internal Revenue Service Guidelines. The estimated value of the benefits received from your Life Membership is not substantial; therefore, the full amount of your payment is a deductible contribution.

*Alternate pay plans are available. \$375 down, \$375 per year for following three years; or any combination over three or less with a minimum down payment of \$375.

MEMBERSHIP FEES:

Membership renewal forms have been individualized and reflect the cost for each individual’s membership category. The price printed on renewal forms is based on several factors: Age, date joined, previous membership category and any credits due. If members believe the printed price is incorrect, call the Membership Department at 1-800-435-9262 to verify.

Any questions regarding this service should be directed to Colleen Pierce, Membership Supervisor, at 1-800-435-9262 ext. 290 or E-mail at cpierce@modelaircraft.org.

**Indiana does not observe Daylight Saving Time*

**NATIONAL MODEL AVIATION MUSEUM
PATRON PROGRAM**

The Museum Patron Program allows for the ongoing support of the National Model Aviation Museum and the Lee Renaud Memorial Research Library, but does not provide AMA insurance or *Model Aviation* magazine.

Patrons’ annual contributions* provide for library, model, and artifacts acquisition, as well as restoration. Contributions also make possible quality displays, lighting, and other refinements, such as video conversion of older film and electronic storage of valuable museum manuscripts and books.

Categories of Patrons for Individuals:**

Patron—\$25. Receives *Cloud 9*, pin, patch and decal.

Supporting—\$100. Receives Certificate of Patronage, *Cloud 9*, pin, patch, and decal.

Sustaining—\$500. Receives Plaque of Patronage, *Cloud 9*, pin, patch, and decal.

Life—\$1000. Life Patron Plaque, *Cloud 9*, pin, patch, and decal.

Corporate—Call or write for details.

Cloud 9 is sent to all Museum Patrons. This newsletter keeps Patrons informed on museum development and acquisitions and also provides a forum to express museum needs and allow patrons a unique opportunity to participate in museum plans and operations.

* *Patrons note that any amount over \$25 in a given year is tax-deductible for that year.*

** *Membership ends at the close of each calendar year, excluding Life Patronage.*

PASSWORD PROTECTION

The AMA Web site now has a password system in place for two reasons: to protect members’ confidential information and to increase the benefits of becoming or remaining an AMA member.

A password is needed to renew your membership online, to purchase products from the online store (but not to browse), and to access “Members Only” areas such as *MA’s* digital archives.

Please note that there is a FAQ link on the front page of the Web site to assist you if you need help.

RECOGNIZING INDIVIDUALS

Leader Member: A program designed to recognize leaders in the modeling community. Three classifications exist: Administrative, Industry, and Scientific. Members recognized in this program help to administer Academy activities as well as maintain and vote on the AMA bylaws. Information and applications are available from the Membership Department at AMA Headquarters.

Contest Director: Contest Directors are responsible for organizing and running flying events through the AMA sanctioning program. Information and applications are available from the Competitions/Technical Department at AMA Headquarters. Call (765) 287-1256.

Appreciation Awards: Clubs may purchase appreciation awards for flying site providers and others who assist chartered clubs in their endeavors. The AMA certificate is nicely designed and arranged for signature by a club officer. A walnut-mounted plaque, with up to 30 words inscribed by calligraphy and decorated with a gold seal and red, white, and blue ribbon, is only \$25 postpaid. For further information contact the Programs Department.

RENEWAL SERVICES OFFERED

Membership renewal season (October 1 through December 15) is a very busy time for AMA Headquarters. It is during this period of time that we process more than 65% of our total membership. It may take three to four weeks to receive your new card due to the heavy volume. Please be patient. No interruption of *Model Aviation* magazine should be experienced if your renewal is received before December 15. When calling Customer Service, always have your AMA number ready to assist the operator.

On-line:

Available now, you can renew on-line! It's quick, it's easy, and it's entirely secure. Give it a try using your MasterCard or VISA. Visit the AMA home page at www.modelaircraft.org. This service is available 24 hours a day, 7 days a week.

Telephone:

You can renew your membership via telephone when paying by MasterCard or VISA. This limited service is available Monday through Friday only, from 9:00 a.m. to 4:00 p.m. Eastern Standard Time. (Please note: Indiana does not observe Daylight Savings Time.) Simply call 1-877-363-9262, (1-87-RENEWAMA).

Fax:

Still available for your convenience, you can send in your renewal form to the Membership Department direct Fax line at 765-741-0057 if paying with MasterCard™ or VISA®.

Mail:

Simply mail your renewal notice along with the proper payment to AMA Headquarters at 5161 E. Memorial Dr., Muncie IN 47302.

SCHOLARSHIP PROGRAM

Since 1970, the Academy of Model Aeronautics has provided scholarships to young men and women seeking to continue their education in colleges and universities. The primary awards are presented through the Charles Hampson Grant scholarships funded by a variety of sources including gifts, memorials, and the AMA general fund.

The top winner of the Grant award also receives an award provided by the Toledo Weak Signals from monies generated from the club's annual trade show and exposition. An additional scholarship, the Sig award in honor of the late Glenn Sigafosse, is presented by Hazel Sig-Hester and Sig Manufacturing Company. Presented to one or more individuals, the award is based upon financial need and aeromodeling activity. The applications are evaluated by a four-member committee.

The committee, consisting of Bob Underwood, Chairperson, St. Louis MO; Cliff Telford, Winter Springs FL; Jane Morgan,

Scotland PA; Charles Bauer, Norridge IL. rate the applicants in several major categories, including grade point average, test results, and various activities, including aeromodeling.

High achievement in all of the categories is important for the maximum amount of scholarship awarded to an individual; however, a person who is not academically at the top of his or her class may win a significant scholarship award if he/she is active in the community, or in aeromodeling, or both.

Information regarding applications may be obtained from Jack Frost at AMA Headquarters or visit the AMA Education Web site at www.buildandfly.com.

ULTIMATE MODEL AERONAUTICS VIDEO LIBRARY SERIES AVAILABLE NOW!

Watch for exciting new volumes of AMA's new DVD series: Ultimate Model Aeronautics Video Library. This series is a combination of flight footage from top events around the country, how-to segments, and bonus footage including tours of the AMA Museum and many other areas. Get all of the details on how to order the complete series today on our Web site: www.modelaircraft.org.

VOLUNTEER PROGRAM

Volunteers serve as the lifeline and backbone of the AMA and National Model Aviation Museum. Through the efforts of scores of volunteers, local, regional, national and international visitors can enjoy the many exhibits at the National Model Aviation Museum and enjoy watching model airplanes fly on our 1,000 acre site. We sponsor National and International flying competitions as well as other special events for the public to view. Volunteers share their knowledge of the world's largest collection of model aviation artifacts and related material.

As a volunteer, your responsibility begins when you agree to perform the tasks identified in your volunteer position. In return for your commitment, time and talents, the Academy of Model Aeronautics offers you discounts on items purchased in the Museum Store. You will have the chance to enjoy a wide variety of experiences and camaraderie with other volunteers and staff. You will receive the satisfaction of making a personal and significant contribution to your community. Volunteer recognition events and the opportunity to gain marketable skills are an added bonus!

All volunteer applicants are asked to complete an application form and will be interviewed by the Volunteer Coordinator.

A wide range of opportunities and experiences await you at the Academy of Model Aeronautics. The volunteer's importance to the Academy of Model Aeronautics cannot be overstated! Love to mix and mingle with people? You will thrive on the social interaction that volunteering in the museum store or during AMA special events presents. Do you prefer the solitude of research or computer work? Opportunities are also available in this area.

We need all of you! Please consider volunteering at the Academy of Model Aeronautics. This is the chance to help thousands interpret, enjoy and understand the extraordinary life and history of model aviation.

Have fun and make a difference! Contact the Volunteer Coordinator at AMA Headquarters, (765) 289-4236, for more information about volunteer opportunities.

International Miniature Aircraft Association (IMAA)

Tom Hayden, President
1649 Tecumseh Drive
Lancaster OH 43130
whayden@columbus.rr.com
High Flight (Publication)
Taylor Collins

International Miniature Aerobatic Club (IMAC)

Tom Wheeler, President
655 Sheffield Rd.
Auburn Hills MI 48326
imacpres@mini-iac.com
Scale Aerobatics (Publication)

International Radio Control Helicopter Association (IRCHA)

Ron Kummer, President
7920 Fairlawn Dr.
Pickerington OH 43147
ron@ircha.org
IRCHA Bulletin (Publication)
Dick McKenna

Jet Pilot's Organization (JPO)

Steven Ellzey, President
2117 Briarwood Dr.
Grand Prairie TX 75050
the.ellzeys@sbcglobal.net
Contrails (Publication)
Steven Ellzey

League of Silent Flight (LSF)

Tom Kallevang, President
A4-IZZA Beverly Rd.
Hoffman Estates IL 60719
tkallev@msn.com
Short Lines (Publication)
T. Kallevang

Miniature Aircraft Combat Association (MACA)

Larry Driskill, President
6301 CR 7410
Lubbock TX 79424
larry@kittingittogether.net
MACA News (Publication)
Bill Maywald

Model Engine Collector's Association (MECA)

Woody Bartelt, President
3706 N. 33rd St.
Alesburg MI 49053
M.E.C.A. Swapsheet (Publication)
Morris Leventhal

National Association of Scale Aeromodelers (NASA)

Stan Alexander, President
3709 Valley Ridge Drive
Nashville TN 37211
onawing@mindspring.com
Replica (Publication)
Mark Lanterman

National Competition Fun Fly Association (NCFFA)

Kevin Siemonsen, President
129 Rt. 37
New Fairfield CT 06812
Boogsy224@aol.com
NCFFA Newsletter (Publication)
Chuck Andraka

National Control Line Racing Association (NCLRA)

Bill Lee, President
601 Van Zandt-County Road 4815
Chandler TX 75758 (903) 852-5599
bill@wrlee.com
Torque Roll (Publication)
Tim Stone

National Electric Aircraft Council (NEAC)

Ralph Weaver, President
10783 Northampton Dr.
Fishers IN 46038
rmw00@yahoo.com
NEAC News (Publication)
Ralph Weaver

National Free Flight Society (NFFS)

Robert Stalick
5066 NW Picadilly Circle
Albany OR 97321
freeflyer@aol.com
FreeFlight (Publication)
Walt Roselle

National Indoor Remote Control Aircraft Council (NIRCAC)

Dave Robelen, President
Rt. 4 Box 369
Farmville VA 23901
aplusfarm@hovac.com

National Miniature Pylon Racing Association (NMPRA)

Peter Bergstron, President
511 W. Main St.
Montecello IL 90245
High Performance (Publication)
Darrol Cady

National Society of Radio Controlled Aerobatics (NSRCA)

Tony Stillman, President
3702 N. Pace
Pensacola FL 32505
tony@radiosouth.com
K Factor (Publication)
Derek Koopowitz

Navy Carrier Society (NCS)

William Calkins
317 Snow St.
Sugar Grove IL 60554
clflyer@mchsi.com
Hi-Low Landings (Publication)
John Vlana

North American Speed Society (NASS)

William Hughes, President
113 N Chase Ave., Bartlett IL 60103
Speed Times (Publication)
Dave Mark

Precision Aerobatics Model Pilots Association (PAMPA)

Frank McMillan
12106 Gunter Grove
San Antonio TX 78231
Stunt News (Publication)
Tom Morris

R/C Combat Association (RCCA)

Ed Kettler, President
6725 Grant Ln.
Plano TX 75024
ed.kettler@comcast.net
R/C Excellence (Publication)
Rex Hinson

Scale Warbird Racing Association (SWRA)

John Gonzalez, President
4324 S Camino De Oeste
Tucson AZ 85746
The Scatter Pylon (Publication)
Clay Sherrow

Senior Pattern Association (SPA)

Bruce Underwood, President
1412 Patterson St
Guntersville AL 35976
bruce@netnav.com
SPA Newsletter (Publication)
Bruce Underwood

Society of Antique Modelers (SAM)

Tom McCoy, President
203 N. Brockfield Dr.
Sun City Ctr. FL 33573
TommyboyMcCoy@worldnet.att.net
SAM Speaks (Publication)
Bruce Augustus

Unlimited Scale Racing Association (USRA)

Scott Hanbury
6327 Tall Oaks Drive
Mentor OH 44060
R/C Excellence (Publication)
Roger Smith

Vintage R/C Society (VR/CS)

Bob Noll, President
2317 Acorn Drive
Vestal NY 13850
bobrc@aol.com
VR/CS Newsletter (Publication)
Jim Quinn

World Miniature Warbird Association (WMWA)

Alan Yendle, Secretary
2850 Spaulding Dr.
Atlanta GA 30350
flyby13@mindspring.com
Wings of Eagles
Ed Irons

Need AMA Service or Information?

SERVICE	EXT				
Address Changes	296	Contest Coordination	232	Mall Shows:	
Adopt-A-School	516	Contributions, Museum	500	Handout Materials	272
Advertising Billing	261	Custom Products	521	Mall Shows:	
Aeromodeling		Donations	263	Insurance	291
Championships	204	Educ. Support/ Classroom Material	516	Marketing	273
Agenda Items and Committees	201	FAA Liaison	270	Membership Records	292
Air Show Teams	272	FAI License/Stamp	231	Muncie Site Usage	204
All Season Flier Patches	212	FAI Programs	231	Museum Donations	500
AMA Awards	272	FAI Rules Proposals	230	Museum Patrons	508
AMA Convention	270	Flying Site Help	270	<i>National Newsletter</i>	228
AMA Credit Card Program	250	Fund Raising	200	Officer Support	201
AMA Cub/Delta Dart Sales	212	Government Liaison	270	Plans Orders	212
AMA/FAI Rules	230	Hobby Shop POS Material	272	Product Guide Orders	212
AMA/FAI Rule		Hobby Shop Magazine Sales	261	RC Frequency Problems	230
Books/Ordering	232	Incorporation & IRS Exempt Status	250	Safety Code Clarification	250
AMA Sanctions	232	Insurance Claims, Filing, & Status	252	Sanctions	232
Annual Nationals		Insurance Problems and Questions	251	Scholarship Program	515
Public Relations	204	Intro-Pilot Program	291	Sound	230
CD Application/Testing	232	Kit Stuffer Program/ Manufacturers	272	Special Interest Groups	201
Certificates of Appreciation	272	Large Aircraft Inspectors	251	Specialized Insurance Certificates	251
Classroom Materials	516	Leader Clubs	272	Supplemental Member Insurance	252
<i>Cloud 9</i> Newsletter	500	Legal Matters	250	Team; Entry	231
Club Records: Cert. of Ins.	291	Library	506	Technical Questions	230
Club Records: Chapters	291	Magazine Article Reprints	506	Trade Shows	270
Club Records: Charters	291	Magazine Policies	224	Turbo Jet Waiver	252
Club Records: Club Records	291			Video Tape Sales	212
Club Records: Safety Posters	291			World Championships	230
Contest Board Matters	230			Youth Program Ideas	515

OTHER RELATED ORGANIZATIONS

• **American Miniature Racing Car Association**
(Tether Car Activities)
J. Phil McDonald
5541 Pendleton Ave.
Anderson IN 46013 (765) 643-6971
jphil944@hotmail.com; www.amrca.com

• **American Model Yachting Association**
Michelle Dannenhoffer
558 Oxford Avenue
Melborne FL 32935 (888) 237-9524
membership@amya.org; www.amya.org

• **American Power Boat Association**
17640 East Nine Mile Road
PO Box 377
Eastpointe MI 48021
Tel.: (810) 773-9700; Fax: (810) 773-6490
APBAHQ@aol.com; www.apba.org

• **International Model Power Boat Association**
Noel Scallan
22804 Woods Drive
Violet, LA 70092 (504) 276-4500
secretary@impba.com; www.impba.com

• **Model Aviation Association of Canada (MAAC)**
Unit 9, 5000 South Service Road
Burlington, Ontario L7L 6A5

• **National Organization for Racing RC Autos**
8809 District Blvd.
Bakersfield CA 93309 (661) 328-1481
donr@norcca.com; www.norcca.com

• **National Radio Controlled Hot Rod Assoc.**
3607-B Reynolda Rd.
Winston-Salem NC 27106
Tel.: (336) 922-3156; Fax: (336) 924-5426
Info@rcdragracing.com;
www.rcdragracing.com

• **North American Model Boat Association**
Cathie Galbraith
1815 Halley Street
San Diego CA 92154
Tel.: (619) 424-6380; Fax: (619) 424-8845
cathieg@ix.netcom.com; www.namba.com

• **Quarter Scale Auto Club**
2416 North Hidden Trail
Spring Grove, IL 60081
www.qsac.org

• **Radio Controlled Racing Club of America**
(Elect. & Gas cars, not restricted to any scale)
Bill Brodrick
PO Box 14
Algonquin IL 60102
Tel.: (847) 658-7010; Fax: (847) 788-7110

• **Remotely Operated Auto Racers**
(Electric & Gas)
Fred Hohwart
30872 Coast Hwy., PMB #111
Laguna Beach CA 92651
Tel.: (949) 494-0515; Fax: (949) 494-3413
FREDROAR@aol.com

• **Scale Ship Modeler's Assoc. of North America**
Jan Broucinek
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Pinellas Park FL 33780-0384 (727) 545-8626
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• **The SubCommittee (Subs)**
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