

PARC 2001/2002 Membership

Name : _____

Address : _____

D.O.B. : _____

Phone : _____

Email : _____

Date : _____

Sign : _____

- Primary Membership \$50
- Family Membership \$35
- Associate Membership (<18) \$10

- An adult member of the Club must supervise launches of an associate member.
- Memberships apply for the current financial year.

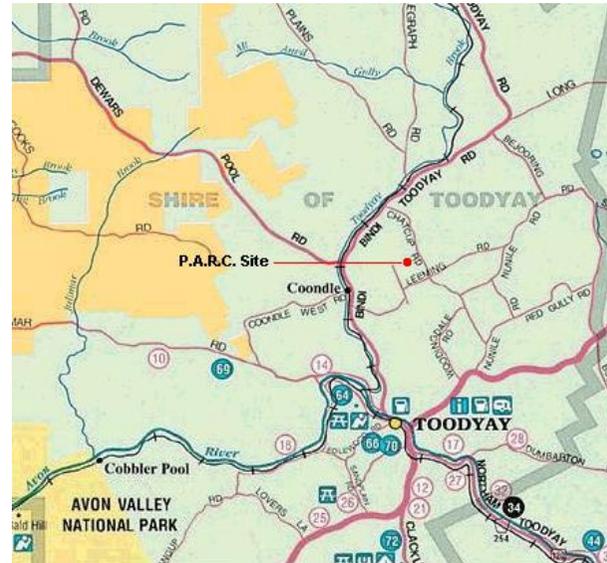
PARC USE ONLY

Application Accepted : / /

Membership Number :

PARC 2001 CALENDAR

Rocket launches are held from March to October (ie. after fire-ban season) at intervals of approximately 4 to 6 weeks. Below is a calendar of launch meetings at the current Toodyay launch site (cnr Chatcup and Leeming).



Please contact a committee member the day before a scheduled launch to confirm that the event is proceeding as listed.

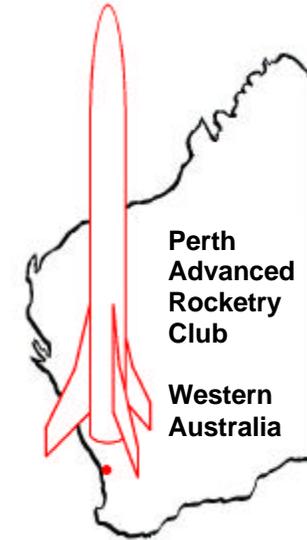
Launch Meetings :

- 18th March 2001 9:30am – 4:00pm
- 22nd April 2001 9:30am – 4:00pm
- 10th June 2001 9:30am – 4:00pm
- 29th July 2001 9:30am – 4:00pm
- 9th September 2001 9:30am – 4:00pm
- 27th October 2001 3:30am – 8:00pm

Annual General Meeting :

- 27th May 2001 11:30am – 2:30pm

Perth Advanced Rocketry Club Inc



Proudly supported by :



PARC Inc
 22 Eleanora Rd,
 Armadale, 6112

Phone : 9399 4032
 Email : parc@perthmail.com
 Web: www.geocities.com/jt_au/

2001 Flying Season

Introduction

The Perth Advanced Rocketry Club Inc (PARC) was established in 1998 by a small group of enthusiasts. Since that time, the club has grown into an active organisation that holds regular launch and social activities throughout the year.

The Objects of the Club are:

- To cater and facilitate for the needs of its members, so that they may safely and legally pursue their hobby of Model Rocketry and High Power Rocketry in Western Australia.
- To arrange, manage and conduct sporting competition, recreational and educational rocketry activities in a safe and legal manner.
- To co-operate with other clubs, bodies, organisations and any interested parties, for the purpose of furthering the interests of Rocketry and promoting good fellowship and sportsmanship.
- To acquire, own lease, or otherwise deal with any real or personal property for the purposes of the Club.

Club organised rocket launching occurs from March to October inclusive at a privately owned property at Toodyay. CASA regulations and fire risk associated with launching model and high power rockets prohibit us from launching in the metropolitan area or during the hot dry summer months.

Primary membership is available to persons over the age of 18, and a "Permit to Purchase Explosives" from the department of Minerals and Energy is required before composite propellant rocket engines of total impulse greater than 20ns can be purchased.

Annual membership for the 2001/2002 season is \$50 and includes insurance for nominated club launch events and use of club equipment.

For more information, please contact a club committee member (9399 4032 or 9291 9787).

Model Rocket Safety Code

1. **MATERIALS** My model rocket will be made of lightweight materials such as paper, wood, rubber, and plastic suitable for the power used and the performance of my model rocket. I will not use any metal for the nose cone, body or fins of a model rocket.
2. **MOTORS** I will only use commercially-made certified model rocket motors in the manner recommended by the manufacturer. I will not alter the model rocket motor (engine), its parts, or its ingredients in any way.
3. **RECOVERY** I will always use a recovery system in my model rocket that will return it safely to the ground so it may be flown again. I will only use flame resistant, biodegradable recovery wadding if wadding is required by the design of my model rocket.
4. **WEIGHT AND POWER LIMITS** My model rocket will weigh no more than 1500 grams at lift-off and its rocket motor(s) will produce no more than 320 Newton-seconds of total impulse. My model rocket will weigh no more than the motor manufacturer's recommended maximum lift-off weight for the motors used, or I will use the motors recommended by the manufacturer for my model rocket.
5. **STABILITY** I will check the stability of my model rocket before its first flight, except when launching a model rocket of already proven stability.
6. **PAYLOADS** Except insects, my model rocket will never carry live animals or a payload that is intended to be combustible, explosive or harmful.
7. **LAUNCH SITE** I will launch my model rocket outdoors in a cleared area, free of tall trees, power lines, buildings, and dry brush and grass. My launch site will be at least as large as that recommended in the Launch Site Dimensions table
8. **LAUNCHER** I will launch my model rocket from a stable launch device that provides rigid guidance until the model rocket has reached a speed adequate to ensure a safe flight path. To prevent accidental eye injury, I will always place the launcher so the end of the rod is above eye level or I will cap the end of the rod when approaching it. I will cap or disassemble my launch rod when not in use and I will never store it in an upright position. My launcher will have a jet deflector device to prevent the motor exhaust from hitting the ground directly. I will always clear the area around my launch device of brown grass, dry weeds, or other easy-to-burn materials.
9. **IGNITION SYSTEMS** The system I use to launch my model rocket will be remotely controlled and electrically operated. It will contain a launching switch that will return to "off" when released. The system will contain a removable safety interlock in series with the launch switch. All persons will remain at least 5 metres from the model rocket when I am igniting model rocket motors totaling 30 Newton-seconds or less of total impulse and at least 9 metres from the model rocket when I am igniting model rocket motors totaling more than 30 Newton - seconds of total impulse. I will use only electrical igniters recommended by the motor manufacturer that will ignite model rocket motor(s) within one second of actuation of the launching system.
10. **LAUNCH SAFETY** I will ensure that people in the launch area are aware of the pending model rocket launch and can see the model rocket's lift-off before I begin my audible five-second countdown. I will not launch a model rocket so its flight path will carry it against a target. If my model rocket suffers a misfire, I will not allow anyone to approach it or the launcher until I have made certain that the safety interlock has been removed or that the battery has been disconnected from the ignition system. I will wait one minute after a misfire before allowing anyone to approach the launcher.
11. **FLYING CONDITIONS** I will launch my model rocket only when the wind is no more than 32 kilometers per hour. I will not launch my model rocket so it flies into clouds, near aircraft in flight, or in a manner that is hazardous to people or property.
12. **PRE-LAUNCH TEST** When conducting research activities with unproven model rocket designs or methods I will, when possible, determine the reliability of my model rocket by pre-launch tests. I will conduct the launching of an unproven design in complete isolation from persons not participating in the actual launching.
13. **LAUNCH ANGLE** My launch device will be pointed within 30 degrees of vertical. I will never use model rocket motors to propel any device horizontally.
14. **RECOVERY HAZARDS** If a model rocket becomes entangled in a power line or other dangerous place, I will not attempt to retrieve it.

High Power Rocket Safety Code

- 1) **CERTIFICATION** I will fly high power rockets only when certified to do so by the Perth Advanced Rocketry Club Incorporated.
- 2) **OPERATING CLEARANCE** I will fly high power rockets only in compliance with Civil Aviation Safety Authority Regulations and all other federal, state, and local laws, rules and regulations.
- 3) **MATERIALS** My high power rocketry will be made of lightweight materials such as paper, wood, rubber, and plastic, or the minimum amount of ductile metal suitable for the power used and the performance of my rocket.
- 4) **MOTORS** I will only use commercially-made certified rocket motors in the manner recommended by the manufacturer. I will not alter the rocket motor, its parts or its ingredients in any way.
- 5) **RECOVERY** I will always use a recovery system in my high power rocket that will return it safely to the ground so it may be flown again. I will use only flame resistant, biodegradable recovery wadding if wadding is required by the design of my rocket.
- 6) **WEIGHT AND POWER LIMITS** My rocket will weigh no more than the motor manufacturer's recommended maximum lift-off weight for the motors used, or I will use motors recommended by the manufacturer of the rocket kit. My high power rocket will be propelled by rocket motors that produce no more than 40,960 Newton - seconds of total impulse.
- 7) **STABILITY** I will check the stability of my high power rocket before its first flight, except when launching a model rocket of already proven stability.
- 8) **PAYLOADS** Except insects, my high power rocket will never carry live animals or a payload that is intended to be combustible, explosive or harmful.
- 9) **LAUNCH SITE** I will launch my high power rocket outdoors in a cleared area, free of tall trees, power lines, buildings, and dry brush and grass. My launcher will be located at least 460 metres from any occupied building or public highway. My launch site will have minimum dimensions at least as great as those in the launch site dimension table. As an alternative, the site's minimum dimension will be one half the maximum altitude of any rocket being flown, or 460 meters, whichever is greater. My launcher will be no closer to the edge of the launch site than one - half of minimum required launch site dimension.
- 10) **LAUNCHER** I will launch my high powered rocket from a stable launch device that provide rigid guidance until the rocket has reached a speed adequate to ensure a safe flight path. To prevent accidental eye injury, I will always place the launcher so the end of the rod is above eye level or I will cap the end of the rod when approaching it. I will cap or disassemble my launch rod when not in use and I will never store it in an upright position. My launcher will have a jet deflector device to prevent the motor exhaust from hitting the ground directly. I will always clear the area for a radius of 3 metres around my launch device of brown grass, dry weeds or other easy - to - burn materials.
- 11) **IGNITION SYSTEM** The system I use to launch my high powered rocket will be remotely controlled and electrically operated. I will contain a launching switch that will return to "off" when released. The system will contain a removable safety interlock in series with the launch switch. All persons will remain at a distance from the high powered rocket and launcher as determined by the total impulse of the installed rocket motor(s) according to the accompanying Safe Distance Table.
- 12) **LAUNCH SAFETY** I will ensure that people in the launch area are aware of the pending high power rocket launch and can see the rocket's lift-off before I begin my audible five-second countdown. I will use only electrical igniters recommended by the motor manufacturer that will ignite rocket motors within one second of actuation of the launching switch. If my high power rocket suffers a misfire, I will not allow anyone to approach it or the launcher until I have made certain that the safety interlock has been removed or that the battery has been disconnected from the ignition system. I will wait one minute after a misfire before allowing anyone to approach the launcher.
- 13) **FLYING CONDITIONS** I will launch my high power rocket only when the wind is no more than 32 kilometers per hour and under conditions where the rocket will not fly into clouds or when a flight might be hazardous to people, property or flying aircraft. Prior to launch, I will verify that no aircraft appear to have flight paths over the launch site.
- 14) **PRE-LAUNCH TEST** When conducting research activities with unproven designs or methods I will, when possible, determine the reliability of my high power rocket by pre-launch tests. I will conduct the launching of an unproven design in complete isolation from persons not participating in the actual launching.
- 15) **LAUNCH ANGLE** I will not launch my high power rocket so its flight path will carry it against a target. My launch device will be pointed within 20 degrees of vertical. I will never use rocket motors to propel any device horizontally.
- 16) **RECOVERY HAZARDS** If a high power rocket becomes entangled in a power line or other dangerous place, I will not attempt to retrieve it. I will not attempt to catch my high-power rocket as it approaches the ground, **nor allow anyone else to do so.**