

Rocket Times

THE OFFICIAL **Centuri** MODEL ROCKETRY MAGAZINE

FOURTH WORLD SPACE MODELING CHAMPIONSHIPS

From September 7th through 12th, 1980 the National Association of Rocketry hosted the Fourth World Space Modeling Championships at the U.S. Naval Center at Lakehurst, NJ. This, the first United States "Internats", attracted contestants from the US, Canada, Great Britain, Spain, West Germany, Australia, Bulgaria and Poland.

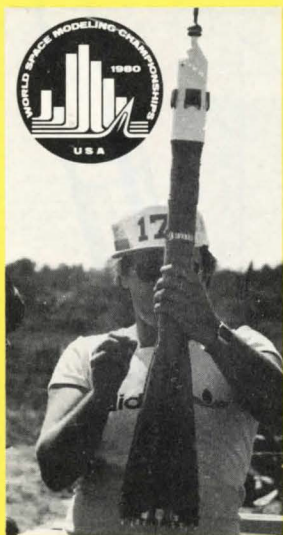
Centuri participated in the opening ceremonies with a spectacular flight demo. The contest had an "Olympic" feeling to it as each nation tried to win the gold medal in each of six events.

The US Team did exceptionally well, bringing home a total of six gold medals, seven silver and three bronze medals. In addition, the US Team won the overall Team Championship for the meet, the world championship of model rocketry!

The US did very well in the streamer duration, payload and scale altitude, taking gold medals in all three events. They took silver and bronze medals as well as team gold medals in scale altitude.



US Team search for thermals with their RC glider entries.



A Bulgarian team member slides his 1st place winning scale model of the Russian Soyuz on to the launcher.

The scale competition went to the Bulgarians who flew three beautifully scaled replicas of the Soviet Soyuz launch vehicle. The Bulgarians also took the gold in boost glider, beating out 1978 World Champ "Guppy" Youngren in a closely fought fly-off after each country turned in three "max" flights in regular competition.

All in all the meet was a great deal of fun and offered the opportunity for many American rocketeers to make friendships with their counterparts in other parts of the world. Everyone looks forward to the Fifth World Championships, now scheduled for 1982.

"WAR IN SPACE"... WILL IT HAPPEN?

Satellite killers will play an important role in any future superpower conflicts. Designed to move close to existing communications and military satellites and destroy them, this offensive capability is important in reducing enemy strike potential.

Today there are thousands of satellites in Earth orbit and only a small percentage perform duties related only to peace-time activities. In some cases, it is not clear what the functions of Russian military satellites are.

In the event of an enemy attack, satellite killers would be valuable in helping to knock-out enemy communications. Over 70% of all military communications are now handled by special communications satellites, and satellite killers that could destroy this network would help to dramatically reduce the effectiveness of an enemy attack. Many military experts believe that the use of satellite killers to destroy communications and surveillance satellites would be a precursor to a full-scale enemy attack.

At the present time, the method of attack is simple—the satellite killer moves close to its target and explodes damaging or destroying the target with shrapnel. It is conceivable that in the near future, satellite killers will be equipped with high-powered lasers which would destroy a target satellite. The Centuri Satellite Killer is an example of the latter type—a reusable satellite weapon of the future.



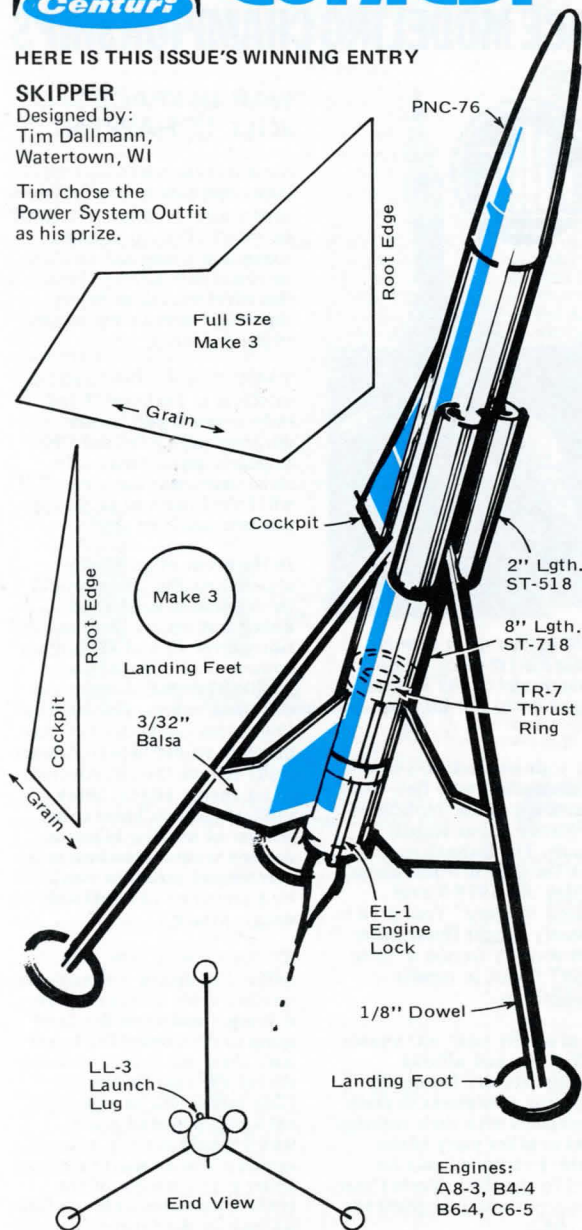
Design Contest

HERE IS THIS ISSUE'S WINNING ENTRY

SKIPPER

Designed by:
Tim Dallmann,
Watertown, WI

Tim chose the
Power System Outfit
as his prize.



Engines:
A8-3, B4-4
B6-4, C6-5

You could be a winner in Centuri's Design Contest. Build your own imaginative rocket from Centuri parts.

CONTEST RULES

1. Entries must consist of a photograph of the model and a drawing which includes a parts list and your name and address.
2. Entries must be flight worthy and not copies of kit designs produced by model rocket manufacturing companies or other published designs.
3. Entries become the property of Centuri and can not be returned.
4. Employees of model rocket companies and their families are not eligible.
5. Entries judged on originality, neatness and completeness.
6. Do not send the actual model.
7. Send as many DIFFERENT entries as you like, but no duplicates.
8. There is no deadline. A winner is selected twice yearly and notified by mail.
9. Specify which prize you want.

PRIZE

The winner will receive a prize of his or her choice . . . any ONE product from the current Centuri catalog! It can be any model rocket product we have . . . right up to the fantastic Saturn V kit or Power System Outfit!

TIPS

- Choose from available parts.
- Avoid large forward fins.
- Use your imagination.
- Make your entry clear and readable.
- Take your time and do a good job.
- Take the best quality photo possible.

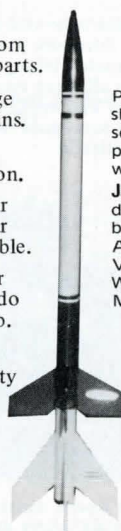
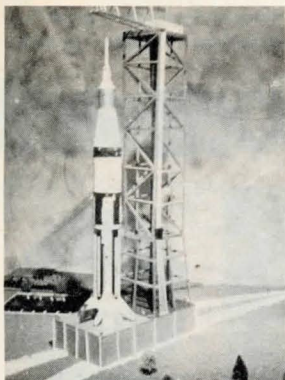


Photo shows second place winner. **Javelin II** designed by: Allen Vermette, Winthrop Maine.

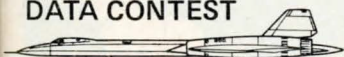
PHOTO CONTEST



David Dhalstrom and Bobby Scheibling are this issue's photo contest winners. Their professional-like entry shows a Saturn IB being transported on a mobile launcher of their own design.

You can enter this ongoing Photo Contest and try for the prize, a \$25 Centuri Merchandise Certificate. A winner is picked for each issue of Rocket Times. Send in your best photo about model rocketry or real rocketry addressed to: Photo Contest, Rocket Times. Black and white photos are best and be sure to try for good contrast and sharp focus.

BLACKBIRD DATA CONTEST



C.A.T. members are invited to test their skills in a new contest. When we designed our new SR-71 Blackbird kit (see pg. 32) we found some interesting facts. The surface temperature of any aeroplane rises as it goes faster as a result of friction generated between its skin and the air molecules travelling over it. Because of this great heat, regular aluminums can not be used because they would melt. What special metal alloy is the the real Blackbird skin made of? The 1st 10 correct entries will be awarded a Magnum-D Hornet kit.

The deadline for entries is Dec. 1, 1981. Send to: Blackbird Data Contest care of Centuri C.A.T. director.

"ANTIQUE" SPACESHIP

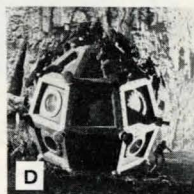
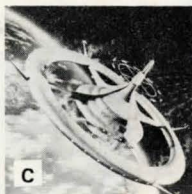
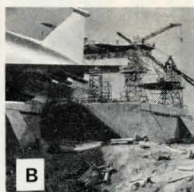
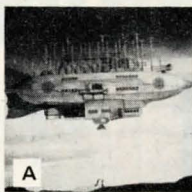
Contest

FOR FANS OF "OLD TIME" S.F. FILMS



20 PRIZES

Here's your chance to become a C.A.T. contest winner and receive a valuable prize. It's easy too—just follow the rules and match each photo with the correct movie title on the form below. The first 20 correct entries will receive a free Space Shuttle Columbia kit.



RULES:

1. Entries must use coupon below (or facsimile). Blacken one square in each row across.
2. Entries cannot be accepted after December 1, 1981.
3. Prizes awarded to the first 20 people to correctly identify all photos.
4. One entry allowed per person. Entries become the property of Centuri and cannot be returned.
5. Employees of model rocket companies and their families are not eligible.
6. Winners will be notified by mail within 60 days after deadline. Names will be published in next Rocket Times.

Photos courtesy TV Charter, Box 234 Dippo, C80, Mesa, AZ 85201. Their huge SF slide catalog costs \$1.25

Centuri Box 1988
Phoenix, AZ 85001

ANTIQUE SPACESHIP CONTEST

Name _____

Address _____

City _____

State _____ Zip _____

Master of the World	A	B	C	D	E	F
Wild, Wild Planet	A	B	C	D	E	F
Destroy All Monsters	A	B	C	D	E	F
Battle in Outer Space	A	B	C	D	E	F
When Worlds Collide	A	B	C	D	E	F
First Men on the Moon	A	B	C	D	E	F

TV SPACESHIP CONTEST

The 20 winners in our TV Spaceship Contest are listed below. Each identified the spaceships correctly as:

Fireball XL-5—E
UFO—B Each winner
Project UFO—D received
Captain Scarlet—C a Buck
Quark—A Rogers kit.
Space: 1999—F

James L. Talley Jr., Norcross, GA
James Kerich, Bethesda, MD
Tim Lenon, Rockford, MI
Lorrn G. Readnow, Meekes, OK
Morris Arnyle, Idaho Falls, ID
Scott Schork, Philadelphia, PA
Mitch Emerick, Philadelphia, PA
Antoine Lloyd, Wyandanch, NY
Ronnie Taylor Jr., Falmouth, VA
A.J. Urania Jr., Norfolk, VA
Paul Hollendorfer, Colo. Spgs. CO
Merrick Terry, Canada
John Edwards Jr., St. Petersburg, FL
Glenn Chung, Greendale, WI
Byung Lee, Chicago, IL
Steve Kral, Maledonia OH
Mark McCarty, Huntsville, AL
Scott Gilman, Olympia Fields, IL
Benjamin Mant, LaPorte, TX
Ronald Basham, Muldraugh, KY

Join us on the

CENTURI AEROSPACE

You can have your photo here too. Just fill out the Data Form included in your CAT membership packet and send it in with a clear photo of yourself (preferably black & white). Maybe you'll appear in the next Centuri catalog!



KURT SINGERMAN: 13 year old Kurt has been an active rocketeer in Fairborn OH for over 2 years now. He thinks Centuri instructions are the best and dreams of riding in a real rocket someday.



JOHN RATHER: 16 year old John enjoys giving lecture demonstrations at the public library in Racine WI. He is an active NAR member and enjoys teaching model rocketry as well as being an active competitor.



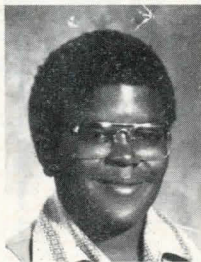
JEANNE BRADY: Jeanne is 7 and lives in Washington MI. Her mother introduced her to model rocketry and now she enjoys it as much as her other hobbies of gymnastics and dancing.



NEIL GLOVER: Neil of Jefferson OH is 17 years old and is designing and building a radio controlled launch tower for his Saturn V. Soon he'll be going to college to become an Aerospace Engineer.

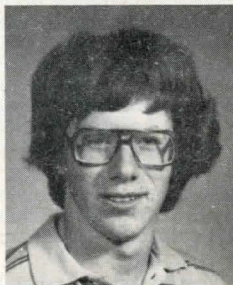


SAMMY HO: 12 year old Sammy is a member of a local model rocket club in New Carrollton MD and says when the club launches they always get a large crowd of spectators. Sammy would like to become an astronaut someday.



DARRON WOODS: Darron is a two year model rocketry veteran from Union City CA. He's 14 and hopes to someday design and build his own rocket to ride in himself! Darron enjoys pets and hopes to be become a veterinarian.

BREN BAILEY: In Charlotte NC it's Bren who steals the show, TV that is! Bren was selected for an episode on rocketry for the popular TV show Kidsworld this year. When he's not busy signing autographs Bren likes to design rockets. At 17 Bren is becoming a local model rocket celebrity.



HERE ARE 10 GOOD REASONS TO JOIN THE C.A.T. NOW!
All this for only \$2.00

Team CAT



- 1 Your own copy of the next Centuri catalog, sent automatically.
- 2 The chance to enter and win C.A.T. contests.
- 3 The chance to be in the catalog.

4 C.A.T. DATA FORM

Probably the most important part of your C.A.T. kit! You complete this simple form about your model rocketry activities to become eligible to have your photo in a future issue of this catalog.



5 IRON-ON SHIRT INSIGNIA

A large 6"x7" three-color emblem for your T-shirt or jacket. Easily irons on and remains permanently. You'll be proud to identify with other Rocketeers.



6 MODEL ROCKET DESIGN MANUAL

Worth \$1.25 by itself! Large 8 1/2"x11" book, contains 32 illustrated pages. Explains design tips, construction techniques plus dozens of photos and over 100 diagrams.



7 C.A.T. DECAL SHEET

Impressive 3-color decal containing 16 Team insignias. Measures 3 1/2"x9". Colors are red, white, and blue.



8 C.A.T. MEMBERSHIP CARD

Wallet size card identifying you as a member of the "Team." Also has Safety Code on back of card.



9 C.A.T. WALL CERTIFICATE

A beautifully lithographed certificate with your name inscribed and ready for framing.



10 C.A.T. FIELD BOX STICKER

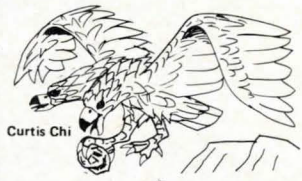
Apply this colorful I.D. sticker to your notebook, bicycle, car, field box, or even your rocket.



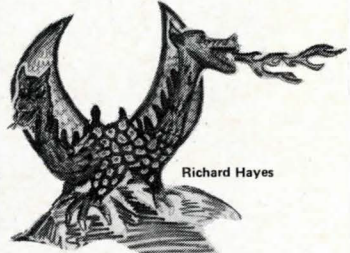
C.A.T. NEWS

THUNDER ROC CONTEST WINNERS

Thanks to the many C.A.T. members who sent in entries to last issue's "Thunder Roc" contest. The 20 winners listed below each received a Centuri Thunder Roc kit. Two of the 20 winning drawings are shown below.



Curtis Chi



Richard Hayes

- Sam L. Lowe, Louisville, KY
- Andy Robinson, Pittsfield, MN
- Andy Barrios, Colorado Spgs, CO
- Chris Hesterman, Canada
- Craig Haugrud, Pelican Rapids, MN
- Scott Kimball, Walnut Creek, CA
- Joey Earls, Delaware, OK
- Curtis Chi, Conover, NC
- Chi Wong, Canada
- Ravindra Lalka, Rocky Mount, NC
- Richard Hayes, Canada
- Lawrence Bercini, High Point, NC
- Anuphong DeYoung, Wahiaawa, HI
- Bryan Caldwell, Dallas, TX
- Josh Steiner, Beverly Hills, CA
- Douglas Dengel, Seldon NY
- Kenneth Lukban, Canada
- Scott Gross, Bennington, VT
- Khalid Aryne, Fairless Hill, PA
- Philip Levy, Madison, WI

Special ...

C.A.T. CLUB MEMBERSHIP

Now, 3 or more rocketeers joining the C.A.T. at the same time can also get the special Club Membership for only \$2.50. It includes certificate with your club name, current catalog and these 3 popular books for your club library: Club Guide, Rocketeers Guidebook and Power-System Handbook. To qualify, at least 3 must join the C.A.T., using the same envelope.



Box 1988, Dept 718
Phoenix, AZ 85001

Available only by mail from Centuri. The "Special Items" \$1.50 handling charge not required on these.

PROMOTIONAL ORDER FORM # 811

Name _____
Address _____
City _____
State _____ Zip _____

Prod. No.	Qty.	Description	Pg.	Ea.	Total
5460		C.A.T. Membership	61	2.00	
5459		C.A.T. Club Memb.*	61	2.50	
907383		M.R. Hq. Poster	63	1.50	

*CLUB NAME: _____ \$ _____