

1st World R.C. Helicopter Championships

CHOPPER CHAMPS

85

JULY 14th-19th



Official Program



\$2.50



Dieter Schlüter, known as „Father of RC-Helicopters“ designed and flew in 1970 the first really working RC-Helicopter in the world and since then he keeps on setting new standards for all others to follow. Schlüter still is trend setter:

No. 1

First working RC-Helicopter in the world
First model Helicopter in the world
First full metal Trainer Heli in the world
First fully aerobatic Kit-Heli in the world
First engine start from above in the world
First series 4-Blade-Rotor in the world
Winner of many different world records.

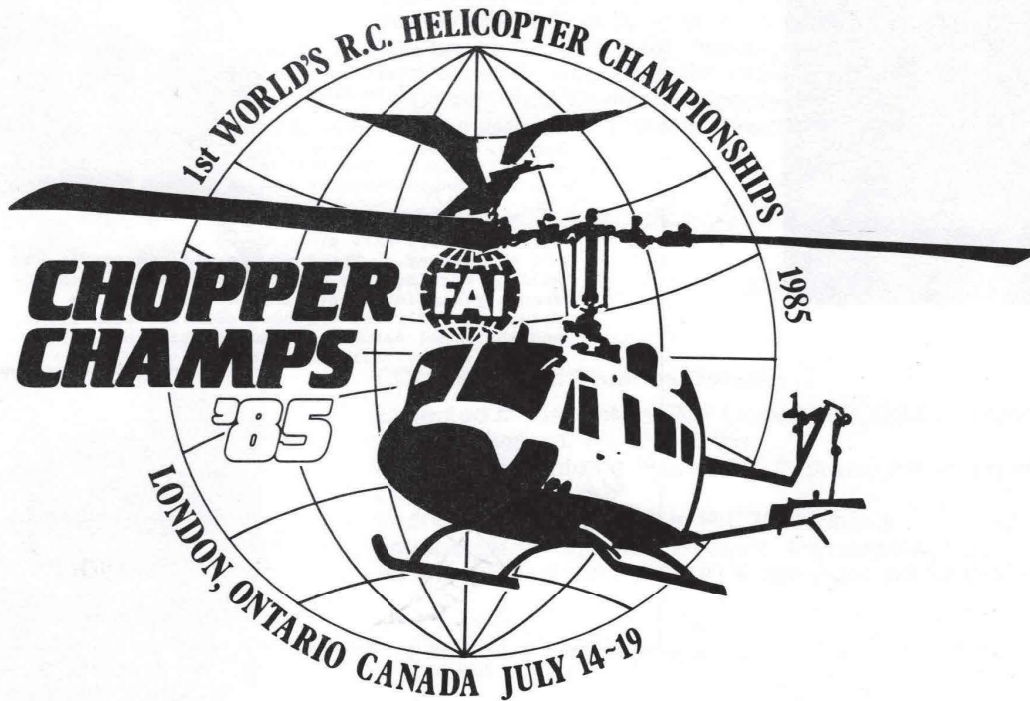
Dieter Schlüter's company, „*Schlüter* Modellbau“ West Germany is the biggest and oldest company specialized in engineering and producing RC-Helicopters. Schlüter models always dominate in sport and contest flying.

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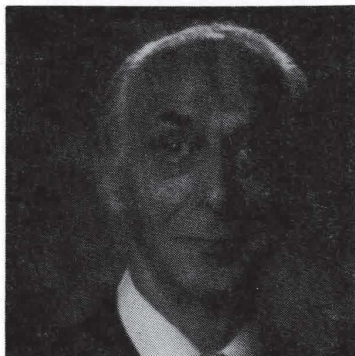


OFFICIALS

| | |
|---------------------------|----------------|
| CHAIRMAN | WALTER KNAUS |
| CONTEST DIRECTOR | ERICH BLUNT |
| CONTEST DIRECTOR (ASS.) | WALTER DUNNETT |
| TREASURER | CLINTON SMITH |
| REGISTRATION CO-ORDINATOR | HELENE KNAUS |
| F.A.I. TEC. ADVISOR | GERALD SHAW |
| PUBLIC RELATION | JOE MC ALPINE |
| SUPPORT SERVICE | WILLIAM TEEPLE |
| COMPUTER SERVICE | DOUG HARTWICK |

SPONSORS

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|--------------------------------|---------|
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| Gorham Model Products | U.S.A. |
| Kalt Sangyo Ltd. | Japan |
| Schluter Model | Germany |
| Miniature Aircraft Inc. | U.S.A. |
| Condor Hobbies | U.S.A. |
| Circus Circus Hotel, Las Vegas | U.S.A. |
| Futaba Corporation of America | U.S.A. |



Friends:

As the Chairman of Chopper Champs 85, it is my pleasure to welcome you to the first R/C World Helicopter Championship.

It is my sincere wish that your stay in London, Ontario, Canada will be one you will always remember, and that you will take home with you very happy memories and many new friendships.

My thanks to all my Committee Members without whose help this event would never have got off the ground. Thank you to all the people who will be working this week to keep things running smoothly. Finally my sincere thanks to the Forest City Flyers, the host club for this event, and the Model Aeronautics Association of Canada for their very valid assistance.

Once again a great week to all.

Yours truly,

Walter Knaus

Walter Knaus
Chairman



CONTEST CO-DIRECTOR: J. Eric Blunt

Your contest Co-Director, Eric Blunt has been involved with model aviation most of his life and with radio control models for over fifteen years. First as a member of The Radio Control Flying Club of Toronto for six years, then as a member of The Forest City Flyers for the last nine years.

Employed by Bell Canada, Eric is married (wife - Mae) with two sons, Paul -23, and Todd -19. A confirmed aviation buff, Eric also has photography, computing, music and travelling as secondary hobbies. He also manages to find time to sing in his church choir and as a Barbershopper. As well, he also builds 1/72 scale plastic models of "The Battle of Britain" period.

Eric, along with the alternate Contest Co-Director, Walt Dunnnett, sincerely wishes all the competitors and participants of the 1st World's Championship For Radio Controlled Helicopters the best of luck and let's have a great contest.



Schlüter

Dear Organization Committee members!
Dear Helicopter Enthusiast!
Dear Visitors!

Already in advance, I must express my thanks to all participants of this first FAI Helicopter World Championship, to the members of the organization committee, the promoters and the field personnel behind the scene. Considering the preparations and preliminaries executed until now, I am absolutely certain, it will be a most interesting and thrilling meet of the world top R/C helicopter pilots.

15 years ago, when I first constructed and tested the first really working R/C helicopter in the world, everyone was enthusiastic about it, but in these first days hardly any one would have thought of it to which breathtaking dimensions this hobby would develop. Most of them considered R/C helicopters as too complicated, too time consuming, too expensive and too difficult to fly.

But when I think back to my enthusiasm and satisfaction of my first controlled and successful circuit, already at that stage I sensed what a fabulous sport this would become.

In the meantime, many years have passed and my former hobby became my profession. New developments were created. Other manufacturers entered the market, a complete new industry was born. A terrific special market was created. Many components have been simplified, more rugged constructions, improved control and capacity were achieved.

But what remained is the fascination of the helicopter and it's fantastic versatile flight possibilities and the challenge to the helicopter pilot to master this craft. This sporting challenge requires strong nerves, hard discipline, technical caution, precise training and a lot of self-criticism. And, naturally, this bit of luck, without even the most skilled pilot wouldn't be successful.

And this bit of special luck I wish all the participants on this first World Championship and for the event itself a fair, interesting sportsmanlike meet.

Ing. Dieter Schlüter

Dieter Schlüter



MODEL AERONAUTICS ASSOCIATION OF CANADA

MESSAGE FROM THE PRESIDENT:

It is our pleasure and privilege to welcome all of you to this historical first World Championship Radio Control Helicopter contest.

It is wonderful to have so many competitors from so many different parts of the globe.

We sincerely hope that you will enjoy your stay amongst us and that you will have the chance to see a part of this great country that is Canada.

To all of you, our very best wishes for a safe, and pleasureable competition on Canadian soil and all of this in the true spirit of competitive modelling.

Nick Mechas
President
Model Aeronautics Assoc. of Canada



FOREST CITY FLYERS INCORPORATED

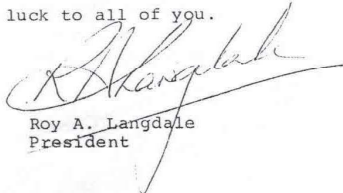
Dear Walter,

I wish to convey to you, on behalf of all the members of the Forest City Flyers, our best wishes for what we truly hope will be a successful "Chopper Champs '85."

Your dedication in pursuing the goal of an international event of this nature, which is a first in the world, has been an inspiration.

As the host club, we warmly welcome all the participants and spectators to London, and sincerely trust that you will enjoy your stay in the Forest City. We also hope that you will return home with many fond memories and some newly found friends.

The very best of luck to all of you.


Roy A. Langdale
President



HOUSE OF COMMONS

Greetings:

We in London-Middlesex are proud to be hosting "Chopper Champs '85", the first World's Remote-Control Helicopter Championships.

Whether you are a competitor or visiting spectator, we hope you will take time during your stay to explore and enjoy our beautiful region of Canada. Events such as this provide excellent opportunities for international understanding and friendships at an individual and personal level that are so important in this day and age.

Our Prime Minister, the Right Honourable Brian Mulroney asked that I also convey his best wishes to you all. Good luck and great flying!!!

Sincerely,

Terry Clifford
Member of Parliament
London-Middlesex Federal Riding



The Corporation of The City of London

The City of London is proud to be the site for the 1st World's Championship for Radio-Controlled Helicopters, an F.A.I. sanctioned event, hosted by the Forest City Flyers, a local club that has called London home for over 25 years.

I would like to extend a particular welcome to all the contestants and spectators taking part in this Championship.

London is known as the Forest City, so while in London please take time to enjoy some of the many sites that our Forest City has to offer.

Good luck Chopper Champs!

Sincerely,

Al Gleeson,
Mayor.



TOWNSHIP OF NORTH DORCHESTER

Dear Mr. Knaus:

As the Reeve of your host municipality for the First F.A.I. World Championship R/C Helicopter Competition it gives me great pleasure to welcome you to the Township of North Dorchester.

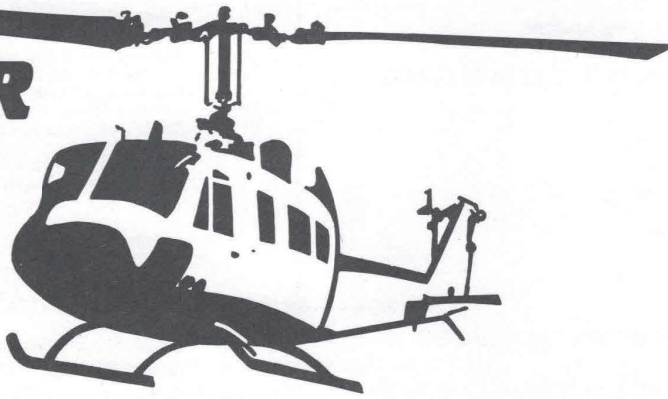
I know the Council and residents of North Dorchester are honoured that you have chosen our municipality to hold such a prestigious competition.

We extend to you and your organization our very best wishes for a most successful event.

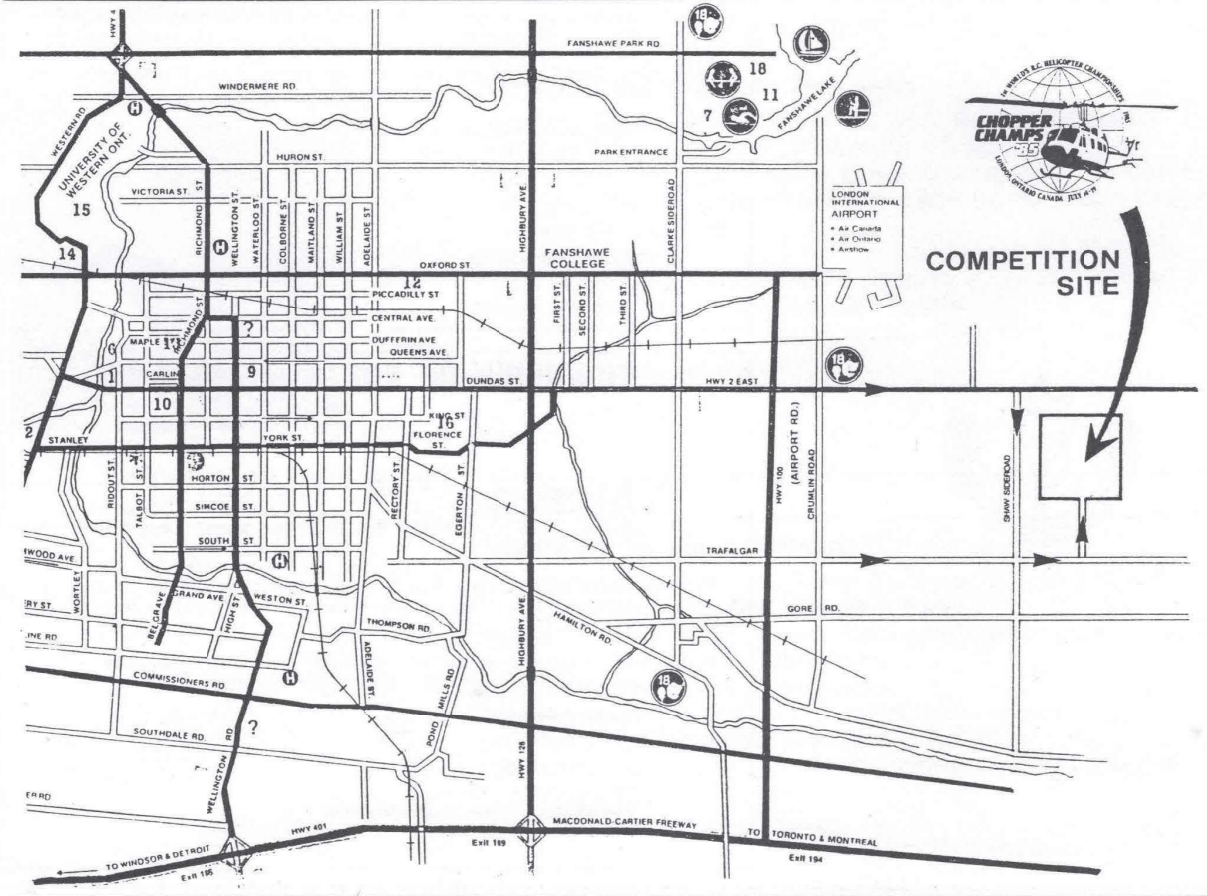
Yours truly,

WM. L. LANE, Reeve
Township of North Dorchester

CHOPPER CHAMPS '85



LONDON



WHAT THIS MEET IS ALL ABOUT

FRANCE;

AMACHÈRE;

DAUPHIN;

DUDOGNON;

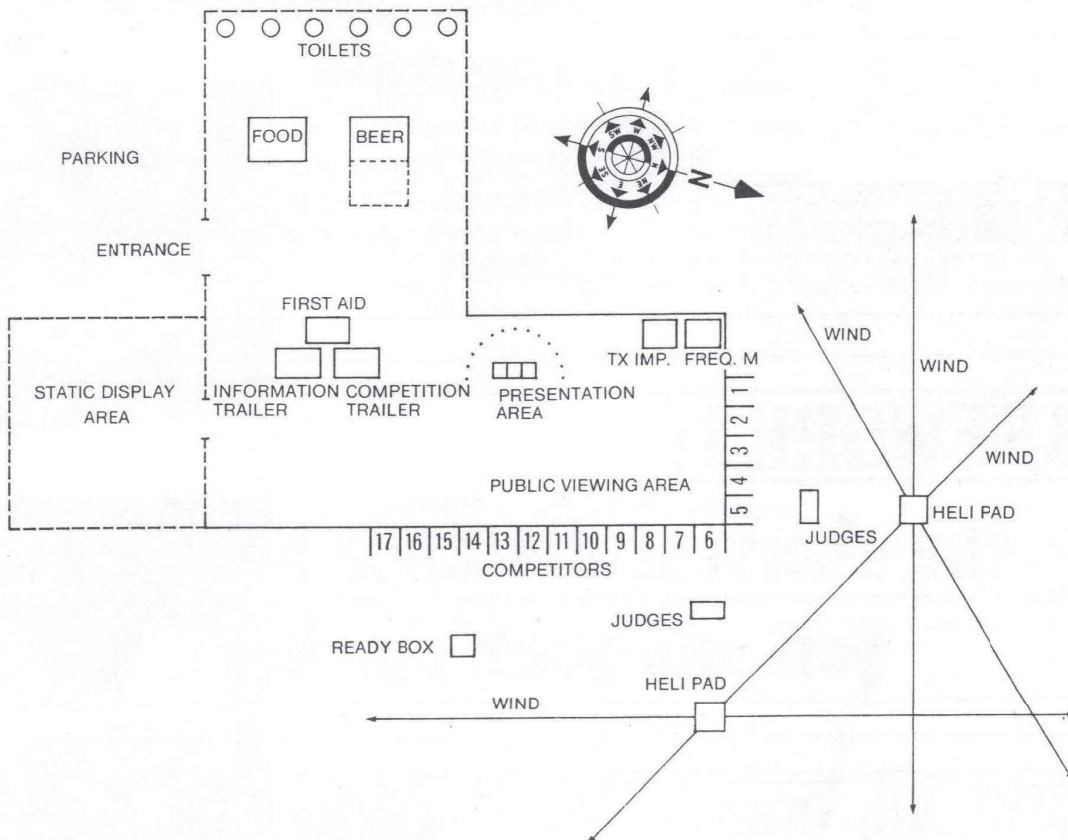
BROUQUIÈRES;

Chopper Champs 85 is the first F.A.I. World Championship R/C Helicopter Competition to be held anywhere, and it is happening in London, Ontario, Canada. Radio control model helicopter enthusiasts from around the globe will be gathering for this prestigious event. This gruelling five day competition will pit pilot against pilot, machine against machine and country against country.

The authentic model helicopters will perform acrobatic flights and breathtaking maneuvers as competitors strive to out perform and out class each other for the world title in a series of F.A.I. classified exercises. Five world judges will be scoring each world contestant and model in flight. Tension and excitement promises to be high. Three F.A.I. jury members will act as observers.

Chopper Champs 85 is approved by the F.A.I., The Federation of Aeronautique Internationale. The F.A.I. is a worldwide organization with 75 member countries. The basic aim of the F.A.I. is to further aeronautical and astonautical activities worldwide with a strong Aeromodelling contingent.

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F.A.I. JURY



F.A.I. JURY CHAIRMAN: Tony Aarts

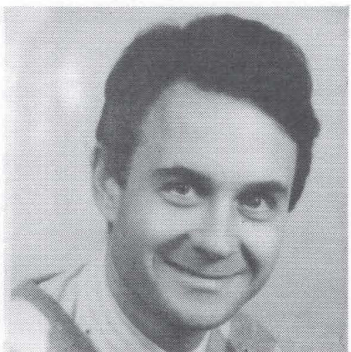
Country: Netherlands.

Modeling Achievements: Chairman Technical Committee
Aeromodeling Sectom Royal Netherlands
Aeronautical Association. Technical Secretary
of the CIAM since 1974.

Years in Aeromodeling: 50

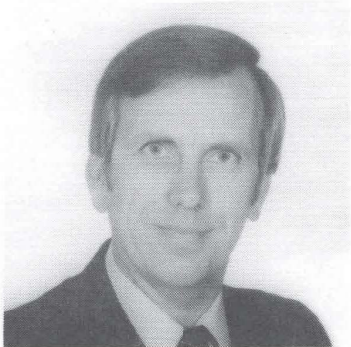
Employment: Aeronautical Engineer (Technical Author).
Fokker Aircraft Factory.

Additional: Married with a family. Tony Aarts has acted
as a Judge or a Jury member in many continental and
World Championships since 1962 including free
flight, control line (F2B, F2C), Radio Control
(F3A, F3B, F3C) and Scale (F4B, F4C).



F.A.I. JURY MEMBER: Jean Michel

FRANCE



F.A.I. JURY MEMBER: Horace Hagen

Country: United States

Modeling Achievements: 1971 first US modeler to fly a
shaft driven R/C Helicopter. 1972 won novice class
at first US helicopter contest. 1974 won novice
class at first US helicopter contest. 1974 won
novice class at AMA NATS.

Years in Aeromodeling: 37; 14 in R/C Helicopters.

Employment: Electrical Engineer, AT&T Information Systems.

Additional: Married. 1974 to 1976 member of AMA R/C
Helicopter Advisory Committee, Chairman of same 1977
to 1982. 1979 to present, member of FAI/CIAM F3C
R/C Helicopter subcommittee.

FLIGHT JUDGES

F.A.I. FLIGHT JUDGE CHAIRMAN: Wolfgang Roth

Country: W. Germany

F.A.I. FLIGHT JUDGE: Don Chapman

Country: United States

F.A.I. FLIGHT JUDGE: Willem Goosens

Country: Belgium

F.A.I. FLIGHT JUDGE: Rudolf Hadorn

Country: Switzerland

F.A.I. FLIGHT JUDGE: H. Schoenmaker

Country: Netherlands

EVENT SCHEDULE

7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00

| | | Registration | | Registration | | Wine & Cheese Party |
|--------------------|---|-----------------------|--|---|---|---------------------|
| Saturday, July 13 | | | | | | |
| ★ | | | | | | |
| Sunday, July 14 | B | Flight Judges Meeting | Processing Practice Flying Team Mgr. Meeting | Opening Ceremony | Demonstration Flying Pilot Meeting | |
| ★ | | | | L U N C H D E M O F L Y I N G | F3C Flying | D |
| Monday, July 15 | B | | F3C Flying | | F3C Flying | D |
| ★ | | | | | F3C Flying | D |
| Tuesday, July 16 | B | | F3C Flying | | F3C Flying | D |
| ★ | | | | | F3C Flying | D |
| Wednesday, July 17 | B | | F3C Flying | | F3C Flying | D |
| ★ | | | | | F3C Flying | D |
| Thursday, July 18 | B | | F3C Flying | | F3C Flying | D |
| ★ | | | | | | |
| Friday, July 19 | B | | F3C Flying | | Awards and Closing Ceremony Demo Flying | Banquet |
| ★ | | | | | | |
| Saturday, July 20 | B | | Departure | | Departure | |

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FLIGHT SCORE SHEET F3C HELICOPTERS



LONDON, CANADA CONTESTANT NO.....

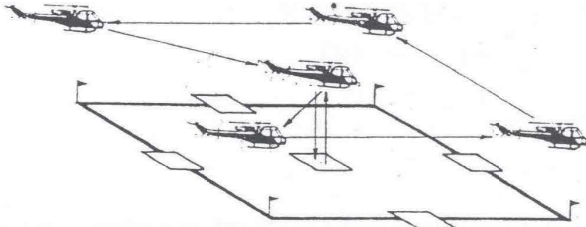
ATTEMPT NO.....

FLIGHT NO.....

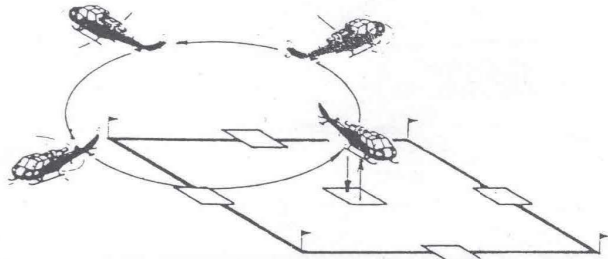
| | | | JUDGES | | | | | SUB TOTAL | |
|-------------------------|--------------------------------------|----------------|-------------|---|---|---|---|--------------|--|
| | | | 1 | 2 | 3 | 4 | 5 | | |
| 1. HOVERING "M" | | 6 | | | | | | | |
| 2. HOVERING CIRCLE | | 6 | | | | | | | |
| 3. HORIZONTAL EIGHT | | 8 | | | | | | | |
| 4. DOUBLE PIROUETTE | O P T I O N A L | 8 | | | | | | | |
| 5. TOP HAT | | 8 | | | | | | | |
| 6. NOSE-IN CIRCLE | | 9 | | | | | | | |
| 7. SHOVEL | | 9 | | | | | | | |
| 8. PILOT'S PROMENADE | | 8 | | | | | | | |
| 9. FOUR POINT PIROUETTE | | 9 | | | | | | | |
| 10. STALL TURN | | 6 | | | | | | | |
| 11. LOOP | | 8 | | | | | | | |
| 12. SPLIT "S" | | 8 | | | | | | | |
| 13. IMMELMAN | | 8 | | | | | | | |
| 14. OBSERVATION | | 10 | | | | | | | |
| 15. ROLL | | 9 | | | | | | | |
| 16. ROLLING STALL TURN | | 9 | | | | | | | |
| 17. 540 DEG. STALL TURN | | 8 | | | | | | | |
| 18. AUTOROTATION | | SELECT ONE | 9 | | | | | | |
| 19. LANDING | | | 6 | | | | | | |
| | | CHECK | | | | | | | |
| | | TIMER INITIALS | TOTAL SCORE | | | | | | |

FLIGHT PROGRAM F3C R/C HELICOPTER

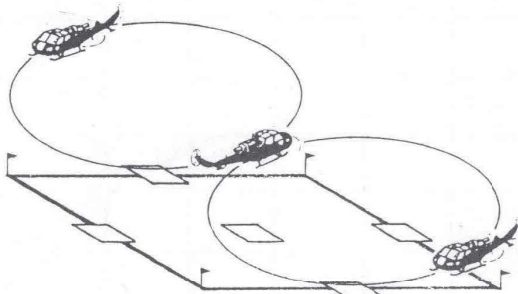
COMPULSORY MANOEUVERS



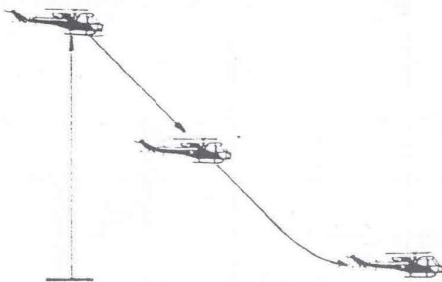
1. HOVERING 'M' K=6



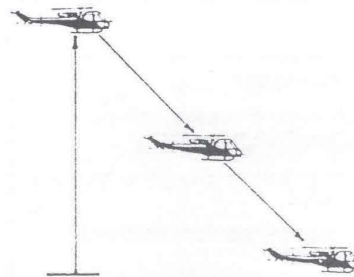
2. HOVERING CIRCLE K=6



3. HORIZONTAL EIGHT K=8

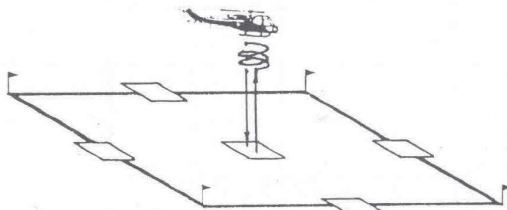


18. AUTOROTATIVE DESCENT
& LANDING K=10

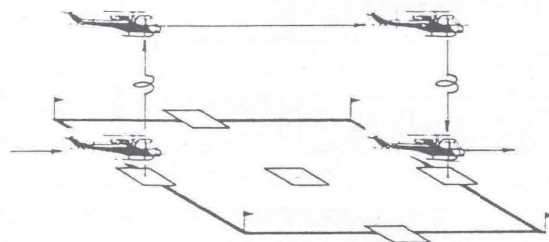


19. LANDING K=6

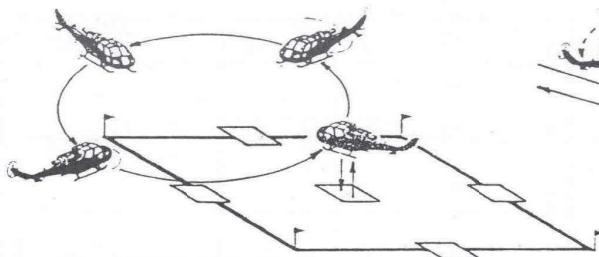
OPTIONAL MANOEUVERS



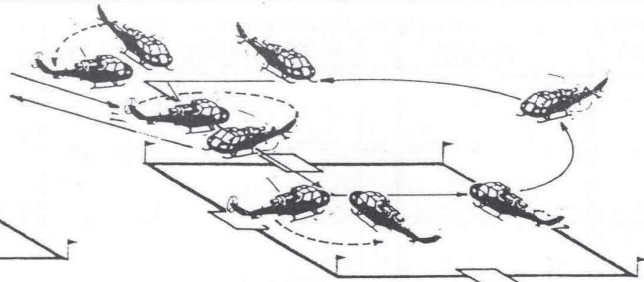
4. DOUBLE PIROUETTE K=8



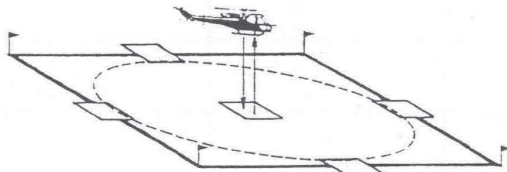
5. TOP HAT K=8



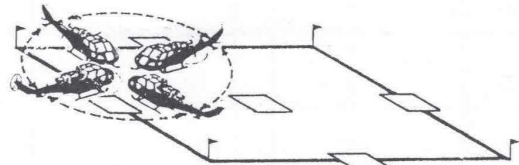
6. NOSE-IN CIRCLE K=9



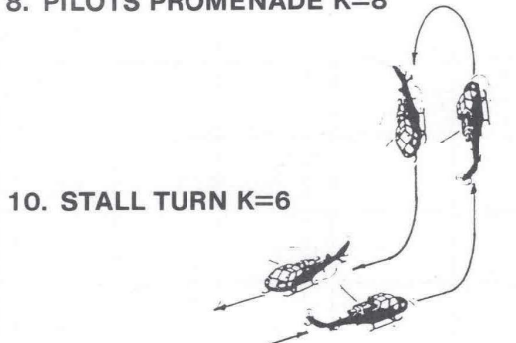
7. SHOVEL K=9



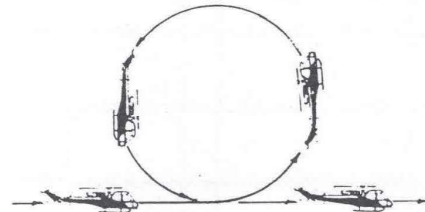
8. PILOTS PROMENADE K=8



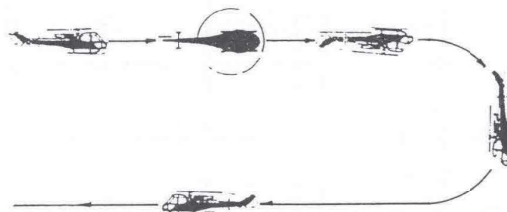
9. FOUR POINT PIROUETTE K=9



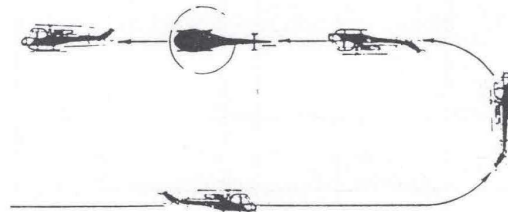
10. STALL TURN K=6



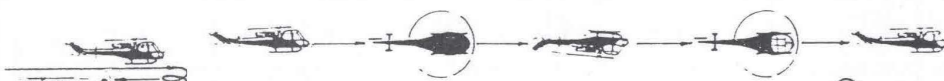
11. LOOPING K=8



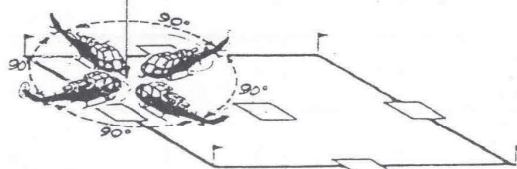
12. SPLIT-S K=8



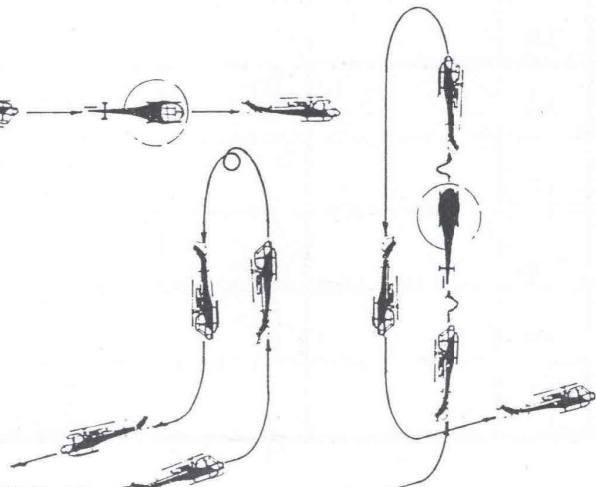
13. IMMELMANN K=8



15. ROLL K=9



14. OBSERVATION K=10



17. 540 STALL TURN K=7

16. ROLLING STALL TURN K=9

COMPETITOR SCORE CHART

| NO. | NAME | COUNTRY | 1 | 2 | 3 | 4 | TOTAL |
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RC HELICOPTERS



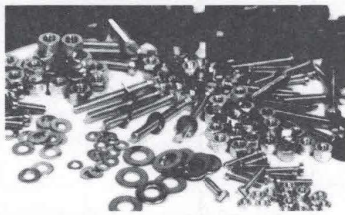
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ACCESSORIES



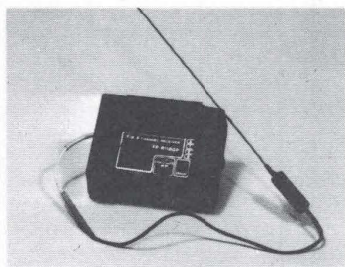
Metric Tool Kit

Available in July of '85, this precision tool kit for helicopter builders and fliers contains a complete assortment of fully hardened hex drivers, socket wrenches and screwdrivers. A universal driver handle is included as well as a ratchet wrench which takes any driver or socket.



Metric Hardware

Can't find that metric bolt, nut or washer just when you need it most? Reach for the right piece from your own workshop supply with this 340-piece set of socket and pan head bolts, set screws, plain and lock nuts.



Whip Antenna Gives Hidden Performance

Gone forever is the nightmare every heli-flier dreads: stepping on a 3 foot antenna and ripping it off the front of your prized chopper just as it's ready to fly.

Base loaded, this short WHIP ANTENNA gives "hidden" performance. Less than 7" long, it can be mounted to project in front of any helicopter or inside the canopy where it is virtually invisible.



Precision Rotor Pitch Gauge

Designed and manufactured to be a fine precision measuring tool, the ROTOR PITCH GAUGE eliminates hit-or-miss adjustment as the pitch angles of the rotor blades are set with the chopper in any position. The GMP ROTOR PITCH GAUGE allows precise measurement of collective, roll and pitch adjustments on any RC helicopter. Packaged in a beautiful fitted leatherette hinged box.



SCALE FUSELAGES FOR COBRA

What's more incredible than a range of interchangeable, exact scale fuselages, simple to install on the GMP COBRA, at a price the modeler can afford?

The first one, the JET RANGER, is now available from GMP. This innovation in modeling means consumers don't have to purchase a complete kit for a change of pace.

To match the availability of the new fuselage, GMP now offers a COBRA mechanics kit to help keep costs down.

The JET RANGER fuselage contains a superbly detailed exact 1/7 scale body and tail boom. The fuselage openings are already cut and all plywood formers are die-cut, ready to glue in. The kit also contains a full set of hardware necessary to install the COBRA mechanics and, most important, scale landing gear, complete with rubber damper mounts.

KITS

For the best selection of trainer, sport and contest helicopter kits, go GMP:

For .25-.28 engines

Cricket Custom
Cricket Super Custom
Hughes 300C

For .40-.50 engines

Cobra Custom
Cobra Custom
w/Autorotation

For .50-.61 engines

Competitor Professional
Competitor Professional
w/Autorotation

Complete kits with fuselage

GMP Hughes 300C
GMP Jet Ranger
w/Cobra Mechanics
Hirobo .50-size Lama
Hirobo .60-size Iroquois
Hirobo Agusta 109 SST
w/DDF Head
Hirobo Corvette SST
w/DDF Head
Hirobo Jet Ranger SST
w/DDF Head

Hirobo Giant Scale

Bell 47G (1.2 cubic
inch engine)
Iroquois (1.2 cubic
inch engine)

Fuselage Kits

GMP Jet Ranger
More to come in '85

Scale Mechanics Sets

Hughes 300C for Cricket
Competitor
w/Scale Head
Hirobo w/SST Head
Cobra/Jet Ranger
w/Scale Head

Another New Concept!

Hirobo Shuttle

AUSTRALIA

COMPETITOR: Peter Rieksts

Expected Model Entry: Star Ranger, Rossi 60 engine Radio - Futaba PCM. Weight 4.30 kg.

Modeling Achievements: Queensland R/C State Helicopter Champion 1984; 3rd Novice Pattern 1984; 5th Standoff Scale 1984.

Club Affiliation: Model Aeronautical Association of Australia.

Years in Aeromodeling: 16 - 6 in R/C Helicopters.

Employment: Manager, Australian Consolidated Ind.

AUSTRIA



TEAM MANAGER: Gerhard Lustig

Club Affiliation: Osterreichischer Aero-Club

Years in Aeromodeling: 10 - 8 in R/C Helicopters

Employment: General Manager, Geest North Sea Line.

Additional: Competition-Manager, Semi Scale F3A.

A handwritten signature in cursive script that reads "Gerhard Lustig".



COMPETITOR: Josef Brennsteiner

Expected Model Entry: Schluter Superior; Webra 61 RCH Engine, Radio Webra Space; Weight 4.80 kg.

Modeling Achievements: National leader 1979, Regional Leader 1977, 1979, 1981 and 1983

Club Affiliations: Osterreichischer Aero-Club

Years in Modeling: 13 - 12 in R/C Helicopters.

Employment: Self employed - Tourism and Model Supplies.

A handwritten signature in cursive script that reads "Brennsteiner Josef".

LUXEMBOURG



COMPETITOR: Gerald Flammang

Expected Model Entry: Hughes 500E, OS Max Engine; Radio-Graupner FM6014-PCM18, Weight 4.4 kg.

Model Achievements:

Club Affiliation: Aero Club Du Grand Duche de Luxembourg.

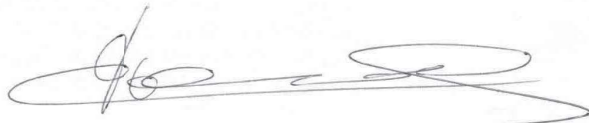
Years in Modeling: 14 - 9 years in R/C Helicopters.

Employment: Luxair Airlines

A handwritten signature in cursive script that reads "Flammang".

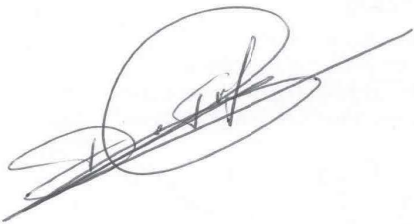
BELGIUM

TEAM MANAGER : A. Goossens



18 MECHELSE STEEN WEG
1960 STERREBEEK
BELGIUM

Home 02/ 731 75.34 Job 02/720.70.60
ext 1193



COMPETITOR: Francis De Proft

Expected Model Entry: Schluter Champion, O.S. 61 Engine
Radio - Robbe, Weight 5. kg.

Modeling Achievements:

Club Affiliation: Belgische Modelluchtvaart Liga

Years in Modeling:

Employment:

Additional: F.A.I. Chairman. Helicopters.



COMPETITOR: Christian De Maeyer

Expected Model Entry: Gold Ranger; Rossi 60 Engine,
Weight 4.6 kg. Radio Robbe Supra

Modeling Achievements:

Club Affiliation: Belgische Modelluchtvaart Liga.

Years in Modeling:

Employment:



COMPETITOR: Jean-Pierre Dupont

Expected Model Entry: Gold Ranger; O.S. 61 Engine; Radio
Robbe Supra. Weight 5 kg.

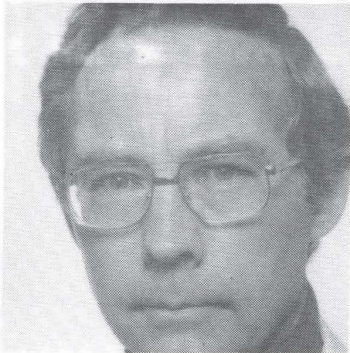
Modeling Achievements:

Club Affiliation: Belgische Modelluchtvaart Liga

Years in Modeling:

Employment:

CANADA



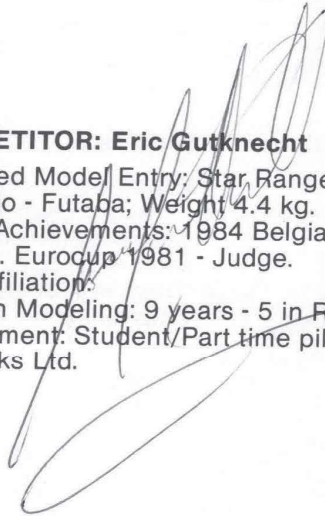
TEAM MANAGER: Don Dow

Club Affiliation: Ottawa Remote Control Club.
Years in Aeromodeling:
Employment: Federal Government of Canada.



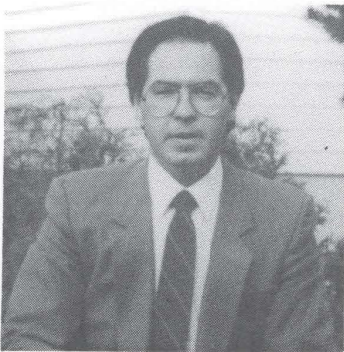
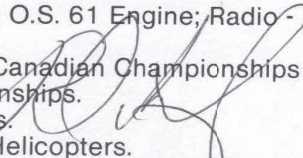
COMPETITOR: Eric Gutknecht

Expected Model Entry: Star Ranger; Rossi 60 Engine;
Radio - Futaba; Weight 4.4 kg.
Model Achievements: 1984 Belgian Nationals 1st place;
F.A.I. Eurocup 1981 - Judge.
Club Affiliation:
Years in Modeling: 9 years - 5 in R/C Helicopters.
Employment: Student/Part time pilot-photographer with
Blacks Ltd.



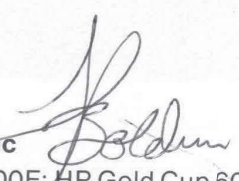
COMPETITOR: Rene Dikkes

Expected Model Entry: Heli-Max; O.S. 61 Engine; Radio -
J.R.: Weight 10 lbs.
Model Achievements: 1st place Canadian Championships
2nd place Canadian Championships.
Club Affiliation: Forest City Flyers.
Years in Modeling: 25 - 10 R/C Helicopters.
Employment: Dental Technologist, University of Western
Ontario.



COMPETITOR: Jean-Luc Bolduc

Expected Model Entry: Hughes 500E; HP Gold Cup 60 Engine,
Radio, Futaba Heli, Weight 5 kg.
Modeling Achievements: 1981 Canadian Nationals F.A.I. 1st
place; 1982 Greenville, U.S. 2nd place.
Club Affiliation: Model Aeronautics Association of Canada.
Years in modeling: 10 years in R/C Helicopters.
Employment: Manager, Group Sales, London Life Insurance
Co.



FINLAND



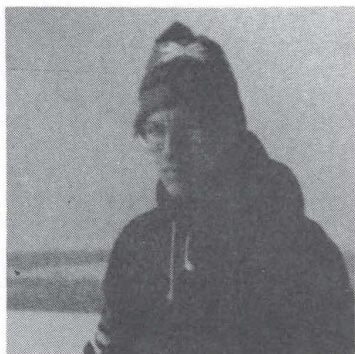
TEAM MANAGER: Mauri Gadd

Club Affiliation:
Years in Modeling:
Employment: Technician - Slocon OY

A handwritten signature in cursive script, reading "Mauri Gadd".

COMPETITOR: Seppo Lehtinen

Expected Model Entry: Heim Bell 222h; Webra Champion 60;
Radio JR PCM9; Weight 5.6 kg.
Model Achievements:
Club Affiliation:
Years in Modeling:
Employment:



COMPETITOR: Pan Nuutinen

Expected Model Entry: Heim Star Ranger; OS 61 RSR Engine;
Radio - JR Apex; Weight 5. kg.
Club Affiliation:
Years in Modeling: 4 - 2 in R/C Helicopters.
Employment: Student

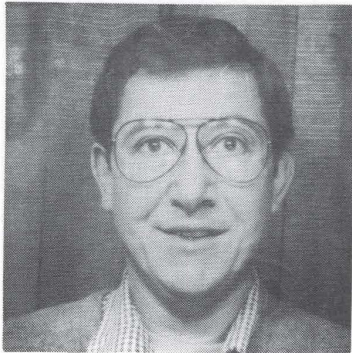
A handwritten signature in cursive script, reading "Pan Nuutinen".

COMPETITOR: Raimo Makkonen

Expected Model Entry: Star Ranger; OS 612 Max ABC Engine;
Radio - JR J8C-4SH; Weight 4.8 kg.
Model Achievements:
Club Affiliation:
Years in Modeling:
Employment:



GREAT BRITAIN



TEAM MANAGER: Pete Ashford

9Club Affiliation: British Radio Control Helicopter Association.
Years in Modeling: 34 - 12 in R/C Helicopters.
Employment: Manager, Dave Nieman Models.
Additional: Contest Director 83 European Contest; A/C British Radio Control Helicopter Association; Competition flyer in scale events. F.A.I. Judge for European Helicopter Championships and in U.K. events.



COMPETITOR: Len Mount

Expected Model Entry: Champion Long Ranger III, Enya 60 XFIII; Radio JR PCM9; Weight 5.5 kg.
Model Achievements: 4 times British National Champion.
Club Affiliation: British Radio Control Helicopter Association.
Years in Modeling: 30 years - 14 R/C Helicopters.
Employment:



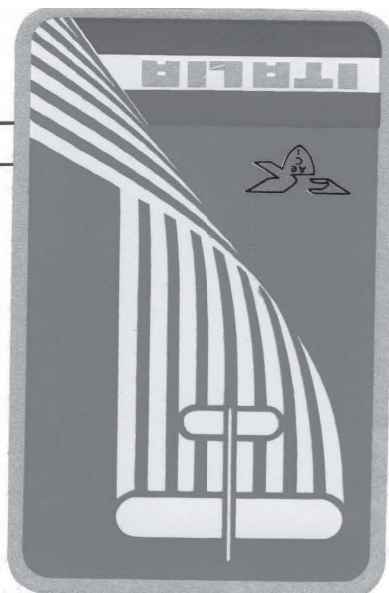
COMPETITOR: Vago Nordigian

Expected Model Entry: Heim Staranger; Enya 60; Radio - JR 8.TX; Weight 4.5 kg.
Model Achievements: U.K. Second.
Club Affiliation: British Radio Control Helicopter Association.
Years in Modeling: 16 - 11 years in R/C Helicopters.
Employment: Self Employed Watford Model Center.
Additional: Film & T.V. Work for James Bond 007, Superman and Barratts/Homes.



COMPETITOR: John Wallinton

Expected Model Entry: Kalt Baron 60; JS 61 Engine; Radio Futaba 8S9H; Weight 5. kg.
Model Achievements: 3rd British National Champs 1982.
Club Affiliation: British Radio Control Helicopter Association.
Years in Modeling: 8 - 3 1/2 in R/C Helicopters.
Employment: Model Shop Manager.



ITALY

TEAM MANAGER: Paolo Dapporto

Club Affiliation: Aero Club D'Italia.
Years in Modeling:
Employment:



COMPETITOR: Stefano Lucchi

Expected Model Entry: Ecureuil; Rossi 60 Engine; Radio
Graupner Exceller Weight 4.5 kg.
Model Achievements: Italian Champion 1985.
Club Affiliation: Aero Club D'Italia
Years in Modeling: 4 all in R/C Helicopters.
Employment: Salesman - Your Shop.



COMPETITOR: Paolo Mella

Expected Model Entry: Augusta 109, Rossi 60 Engine, Radio
JR 128H; Weight 4.5 kg.
Model Achievements: 2nd Italian Championship 1985.
Club Affiliation: Aero Club D'Italia.
Years in Modeling: 8 - 3 in R/C Helicopters
Employment: Salesman - Your Hobby Shop



COMPETITOR: Giancarlo Saragosa

Expected Model Entry: Star Ranger Heim, Rossi Engine;
Radio JR 128AM; Weight 4.6 kg.
Model Achievements: 3rd Italian Championship 1985.
Club Affiliation: Aero Club D'Italia.
Years in Modeling: 3 all in R/C Helicopters.
Employment:

JAPAN

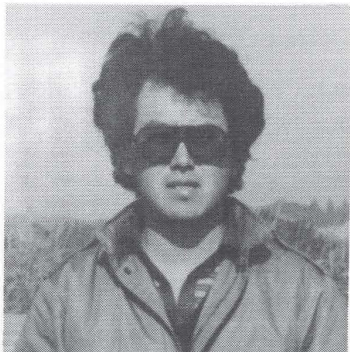


TEAM MANAGER: Shin Abe

Club Affiliation: Japan Aeronautic Association.
Years in Modeling: 25 - 15 in R/C Helicopters.
Employment: Self employed - Model Shop.

阿部伸

Shin Abe

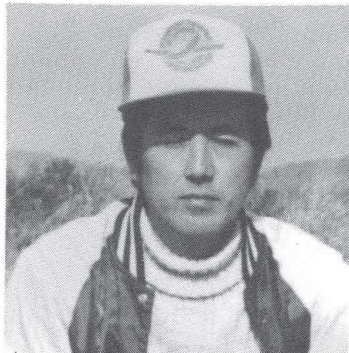


COMPETITOR: Yoshiaki Nagatsuka

Expected Model Entry: Long Ranger; Enya 60 FX; Radio -
Futaba FP-T8SGH-P; Weight 5.3 kg.
Model Achievements: 1st place 83 American Nats FA1 class
& 2nd place in AMA Class. 2nd place in 1984 American
Nats AMA Class.

Club Affiliation: Japan Aeronautic Association
Years in Modeling: 18 years - 10 in R/C Helicopters.
Employment: Business, Kalt Products.
Additional: Extensive demonstration flights in Europe and the
United States. Also flown R/C Airplanes and Gliders.

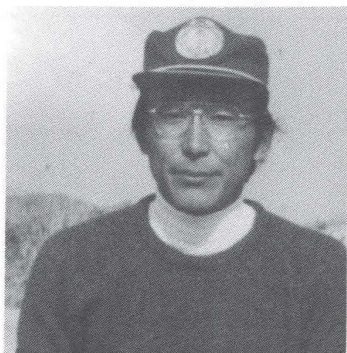
永塚吉昭 Y. nagatsuka



COMPETITOR: Atsushi Nakajima

Expected Model Entry: Long Ranger; YS60FSH Engine; Radio
Futaba FP-8SGH-P; Weight 5.25 kg.
Model Achievement: 1977, 78 & 84 F3C National Champion.
Club Affiliation: Japan Aeronautic Association.
Years in Modeling: 22 - 10 years in R/C Helicopters.
Employment: Self employed. Fuel Store Owner.

中谷厚 A. nakajima



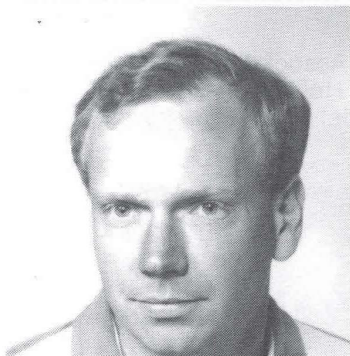
COMPETITOR: Shigetada Taya

Expected Model Entry: TSK Agusta; YS60FSH Engine, Radio -
JR PCM9, Weight 4.9 kg.
Model Achievements: 1979 & 1983 F3C National Champion,
2nd place in 1981. 1984 National Championship. 3rd
place in 1984 American Nats FA1 class.
Club Affiliation: Japan Aeronautic Association.
Years in Modeling: 20 years - 12 years in R/C Helicopters.
Employment: Developing Engineer, Toko Seiki Co. Ltd. (TSK).

田谷惠唯 Taya

NETHERLANDS

TEAM MANAGER: Dre Latiers



Club Affiliation:
Years in Modeling: 8 - 3 years in R/C Helicopters.
Employment: Technical Director, Aug Latiers.
Additional: Flew in 1984 Canadian Championships and flies for hobby.

COMPETITOR: Joop van Lent



Expected Model Entry: Bell 222, OS Max Engine, Radio Graupner 6014, Weight 4.8 kg.
Model Achievements: 1982 1e Dutch Champ. 1983 2e Dutch Champ. 1984 2e Dutch Champ. 1984 20e European Championships Holland.
Club Affiliation:
Years in Modeling: 10 - 8 years in R/C Helicopters.
Employment: Graphic System Engineer, Hoechst.
Additional: Instructor Helicopters.

COMPETITOR: Cornelis Verplanke



Expected Model Entry: Ecureil AS 355. Rossi 60 Engine, Radio Robbe Supra PCM, Weight 4.5 kg.
Model Achievements: 1983 1e Dutch Champ, 1984 1e Dutch Champ. 1982 3e Dutch Champ. 1984 8e European Championships Holland.
Club Affiliation:
Years in Modeling: 15 years - 8 years in R/C Helicopters.
Employment: Technical Manager, Fundex.

NORWAY

COMPETITOR: Rune Nessen

Expected Model Entry: Schluter Superior, Webra SHC-10 Engine, Radio JR 8M. Weight 4.9 kg.
Model Achievements: Twice Norwegian Champion, Second place in Swedish Competitions.
Club Affiliation: Norsk Aero Klubb.
Years in Modeling: 14 - 3 1/2 in R/C Helicopters.
Employment: Motorcycle Mechanic, Suzuki.
Additional: Scale F3A Turnaround speed, pylon and model racing cars.

SPAIN



COMPETITOR: Pedro Caldentey

Expected Model Entry: Heli-Star, OS61 ABC Engine, Radio Futaba FP T5JH 4.9 kg.

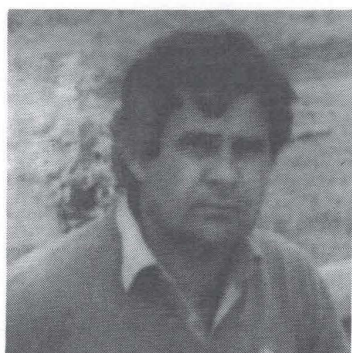
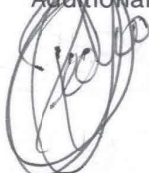
Model Achievements:

Club Affiliation: Federacion Espanola de los Deportes Aereos.

Years in Modeling: 8 - 3 years in R/C Helicopters.

Employment: Tourist Manager, Caves of Hams.

Additional: 4 years in F3A.



COMPETITOR: Juan Juan Riera

Expected Model Entry: Superior (Schluter) OS 61 ABC Engine, Radio JR 50H, Weight 5.1 kg.

Model Achievements:

Club Affiliation: Federacion Espanola de los Deportes Aereos.

Years in Modeling: 5 - 3 years in R/C Helicopters.

Employment: Administrator, Perlas Sureda.

Additional: 2 years F3A.



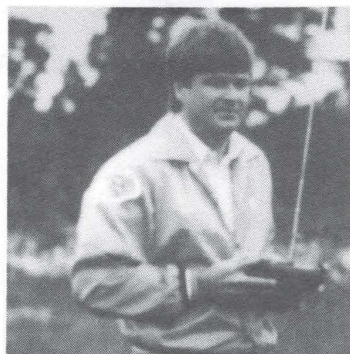
SWEDEN

TEAM MANAGER: Goran Andersson

Club Affiliation:

Years in Modeling: 30 - 10 years in R/C Helicopters.

Employment: Director



COMPETITOR: Ulf Johansson

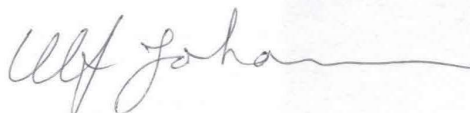
Expected Model Entry: Long Ranger, Rossi engine, Radio Sanwa 7H, Weight 4.8 kg.

Model Achievements:

Club Affiliation:

Years in Modeling: 28 - 13 years in R/C Helicopters.

Employment: Pilot, Swedish Air Force.

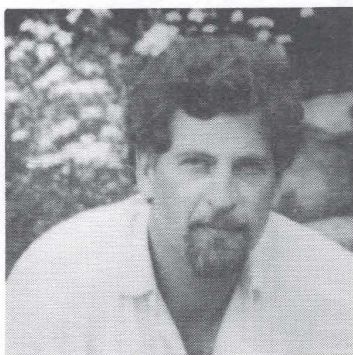


SWITZERLAND



TEAM MANAGER: Peter Oberli

Club Affiliation: Aero Club der Schweiz.
Years in Modeling: 35 - none in R/C Helicopters.
Employment: Instructor, University of Bern.
Additional: President of the Model Air Club of Bern, Vice
President of the Model Air Section 52 in Switzerland.



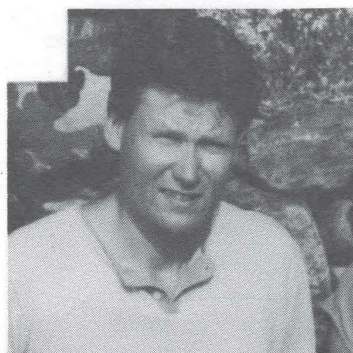
COMPETITOR: Thomas Wieser

Expected Model Entry: Star Ranger, Rosi 61 Engine, Radio
JR H, Weight 4.5 kg.
Model Achievements: Swiss Team 84 No. 3; Coppa Ticino 83
No. 8, Graupner Cup Roma Italy No. 1.
Club Affiliation: Aero Club der Schweiz.
Years in Modeling: 8 - 6 years in R/C Helicopters.
Employment: Architect, Mevli & Partner.



COMPETITOR: Ueli Muller

Expected Model Entry: Hughes 500E, OS61 Engine, Radio
Graupner 6014, Weight 4.5 kg.
Model Achievements: European Championship E.M. Holland,
Swiss Champion 1984.
Club Affiliation: Aero Club der Schweiz.
Years in Modeling: 25 - 11 years in R/C Helicopters.
Employment: Locksmith, Grunig AG.
Additional: Coppa Ticino 1984, Challenge Graupner Lusanne
1978 Member Graupner Swiss Team.



COMPETITOR: Daniele Graber

Expected Model Entry: Star Ranger, Rossie Engine, Radio JR
H, Weight 4.4 kg.
Model Achievements: Swiss Champion 1983.
Club Affiliation: Aero Club der Schweiz.
Years in Modeling: 22 - 11 years in R/C Helicopters.
Employment: Civil Engineer, G. Sciarini.
Additional: European Championships 1984 F3C

NIEDERHAUSER:

UNITED STATES

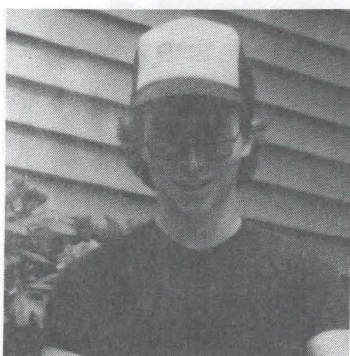


TEAM MANAGER: Richard Robbins

Club Affiliation: New Jersey R/C Helicopter Society.
Years in Modeling: 33 - 10 years in R/C Helicopters.
Employment: Supervisor, Bendix Aerospace.
Additional: Contest Director 1983 Nats. 1975 - 85 East Coast Radio Control Helicopter Championships. -984 FAI Team Selection Contest Director.

Rich Robbins

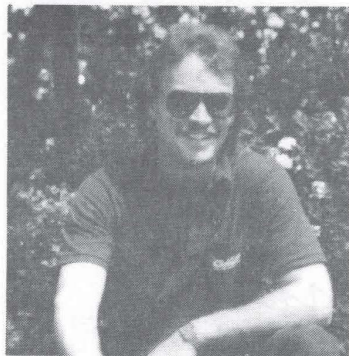
WHAT HAVE YOU GOT ME INTO!



COMPETITOR: Thomas Dalusio

Expected Model Entry: GMP Competitor, OS 61 Engine, Radio JR Unlimited, Weight 10 lbs.
Model Achievements: Placed 1st, 2nd, and 3rd. in competitions.
Club Affiliation:
Years in Modeling: 5 all in R/C Helicopters.
Employment: Inspector, Westport Development.
Additional: 2nd place 83 NATS. 3rd place 85 Tangerine.

Tom Dalusio



COMPETITOR: Robert Gorham

Expected Model Entry: Cobra Jet Ranger, OS 61 H Engine, Radio JR Unlimited III. Weight 10.5 lbs.
Model Achievements: 83 US Champ 1st place, 83 East Coast Champ 1st place, 83 mid west Champ 1st place, 84 FAI Team Selection.
Club Affiliation:
Years in Modeling: 5 years, 4 years in R/C Helicopters.
Employment: R & D Group Engineer, G. M. P.

Robert Gorham

Clifford F. Hiatt



COMPETITOR: Clifford F. Hiatt

Expected Model Entry: Schluter Champion, Enya 60 XF III Engine, Radio Futaba PCM, Weight 4.95 kg.
Model Achievements: 4th place U.S. Nats 1983, 2nd place AMA Expert Tangerine 1983, 1st Place AMA Expert Tangerine 1984.
3rd place 1984 US F3C Team Trials.
Club Affiliation:
Years in Modeling: 21 - 3 years in R/C Helicopters.
Employment: Aero Mechanical Engineer. Parks Jagers Aerospace Co.
Additional: Schluter Team Flier, Futaba PCM representative & Testor.

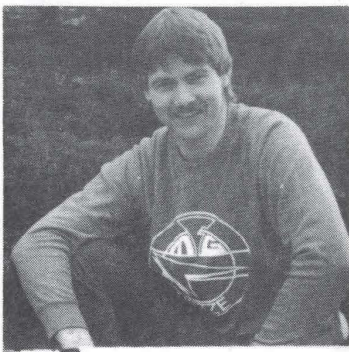
W. GERMANY



TEAM MANAGER: Hans-Joachim Kunnze

Club Affiliation: Deutscher Aero Clube.
Years in Modeling: 30 years - 10 in R/C Helicopters.
Employment: Department Head, Messrs. E. L. Metall, Bremen.
Additional: R/C Manager within the aeromodelling section of the Deutscher Aero Club, one of three vice presidents of that section.

H. J. Kunnze



COMPETITOR: Volker Heine

Expected Model Entry: Bell Long Ranger III; SHC Engine;
Radio - robbe Promars Rex; Weight 4.8 kg.
Model Achievements: 3rd rank German Championships F3C
1984
Years in Modeling: 8
Employment: Fritter, Celler Maschinenfabrik.

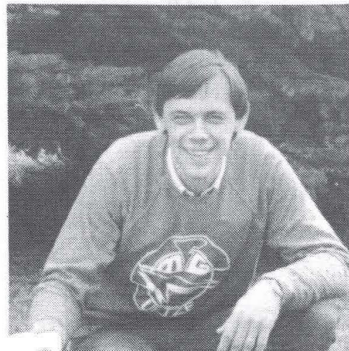
Volker Heine



COMPETITOR: Ewald Heim

Expected Model Entry: Star Ranger; Webra 60 Engine; Radio
- JR; Weight 4.100 kg.
Model Achievements: Present European Champion.
Club Affiliation: Deutscher Aero Club
Years in Modeling: 25 years - 10 years in R/C Helicopters.
Employment: Engineer, Self employed, Heim Helicopters.

E. Heim



COMPETITOR: Michael Davideit.

Expected Model Entry: Bell Long Ranger; Webra-Schluter 60
Engine; Radio - Graupner FM6014; Weight 4.9 kg.
Model Achievements: German Vic Champion 1984; 6th rank
Eruopean Champ 1984.
Club Affiliation: Deutscher Aero Club.
Years in Modeling: 8 - 7 years in R/C Helicopters.
Employment: Self employed - Distributer Books/records
Additional: Holder World Record Speed Closed Circuit
F3C 1983.

Michael Davideit

Schluter U.S.A.

CHAMPIONS!

Technical Information

Main rotor diameter: 1400mm (55.5 in.)

Blade width: 65mm (2.5 in.)

Tail rotor diameter: 240mm (9.4 in.)

Collective and cyclic pitch control with Bell/Hiller mixing. Autorotation standard, variable dampened rotor head. Flying weight with radio, five servos, gyro, 1200 mah battery and empty tank: 4400p (9.9 lbs.)

"Champion", Complete kit, No. 2860



BELL LONG RANGER III

Available as a complete kit with "Champion" mechanics (No. 2861) or as a fuselage kit for "Heli-Boy, Heli-Star and Superior" mechanics. (No. 2721)

Technical Information:

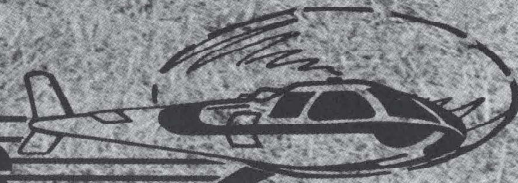
Fuselage length: 1400mm (54.91in.)

Weight (w/Champion): 4800p (10.6 lbs.)

Scale: 1:7.5

"Best of all, it's a Schluter."

**miniature
aircraft inc**



(305) 422-1531
2594 North Orange Blossom Trail
Orlando, Florida 32804



**REAL BEER TASTE
WITH A TWIST.**