

**EUROPEES KAMPIOENSCHAP**

# **RB HELIKOPTERVLIEGEN**

**EUROPEAN CHAMPIONSHIP RC HELI FLYING**



**OFFICIAL PROGRAM**

**ASSEN TT-RACING CIRCUIT**

**19 - 25 AUGUSTUS 2000**

**WWW.ECF3C2000.NL**

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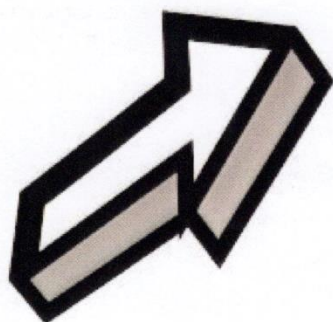
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WELCOMES ALL THE E.C. F3C CONTESTANTS

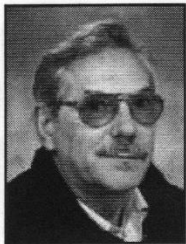
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## WELKOM

Als voorzitter van de KNVvL Modelvliegsport heb ik het genoegen uw gastheer te mogen zijn op dit evenement.

Allereerst natuurlijk een speciaal woord van welkom aan alle deelnemers uit Europa. Ik wens hen een bijzonder sportief evenement toe en veel mooie vliegdagen!

gen!

Ook een woord van welkom aan hun 'fans' die met hen zijn meegereisd om hun landgenoten aan te moedigen en bij te staan.

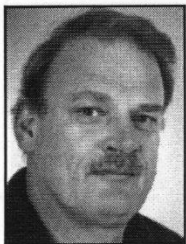
Welkom aan alle toeschouwers van het spektakel dat zich voor uw ogen zal gaan voltrekken. Indien u een of meerdere dagen dit evenement bezoekt zult u verbaasd staan van wat de deelnemers zullen presteren.

Natuurlijk heet ik ook onze sponsors uit binnen- en buitenland van harte welkom. Zonder hun financiële steun is een evenement als dit niet mogelijk. Ik dank u dan ook namens de deelnemers voor uw hulp en steun.

Tenslotte nog een woord van welkom, maar vooral van dank aan de vele vrijwilligers van de organisatie van dit Europees Kampioenschap. Voor en tijdens dit evenement zijn tientallen enthousiaste mensen bezig om het de deelnemers en bezoekers zo aangenaam mogelijk te maken. Hen wens ik een geslaagd evenement toe.

Leo H. Rietdijk

Voorzitter KNVvL Modelvliegsport



## BESTE LEDEN VAN DE JURY, BEOORDELAARS, DEELNEMERS EN SUPPORTERS

Deze Europese kampioenschappen kunnen gehouden worden, mede dankzij de inzet van het bestuur van de afdeling modelvliegsport van de KNVvL, het organisatiecomité, RMC Assen, de leden van de commissie van aanbeveling, de lokale overheid, onze sponsors,

in het bijzonder mr. Masuda en mrs. Qi Jun Ding uit Japan, adverteerders op onze website en in het programmaboekje en onze vrijwilligers die belangeloos een of meerdere dagen hebben opgeofferd om een bijdrage te leveren aan het goede verloop van de wedstrijd.

Wij zijn hen allen veel dank verschuldigd.

Ook zijn wij veel dank verschuldigd aan de Roder Modelvliegclub en de fam. Doornekamp. Zonder hen waren trainingsfaciliteiten voor de deelnemers niet mogelijk geweest.

Ik spreek de wens uit dat wij na de wedstrijd kunnen terugkijken op een goed kampioenschap en een tijd waarin nieuwe contacten zijn gemaakt of vernieuwd.

Dat de beste moge winnen.

Frits van Laar

Voorzitter Organisatie comite EK F3C 2000

## WELCOME

As chairman of the RDA Aeromodelling department it is with great joy that I can serve as your host of this event.

First I would like to specially welcome all our competitors from Europe. I wish them a very sporting competition with lots of beautiful flying days! Welcome also to their 'fans' who traveled along with them to support and assist them.

Welcome to all the visitors of this exhibition that will take place. When visiting this event for one or more days you will be surprised at the achievements of the participants.

Of course a warm welcome to our sponsors, national and international. Without your financial support, an event like this would be impossible. I would like to thank you on behalf of the participants for your help and support.

Finally a welcome, but above all, a thank you, to all the volunteers of the organization of this European Championship. Before and during this event tens of enthusiast people are striving to make the stay of our participants and visitors a pleasant one. I wish everyone a very successful event!

Leo H. Rietdijk

Chairman RDA Aeromodelling dept.

## DEAR MEMBERS OF THE JURY, JUDGES, COMPETITORS AND SUPPORTERS

This European Championship can be held thanks to the dedication of the board of the aeromodelling department of the RDA, the organization committee, RMC Assen, the members of the committee of recommendation, the local authorities, our sponsors, especially Mr. Masuda and Mrs. Qi Jung Ding from Japan, advertisers on our website and program book and our volunteers who freely helped with their generous contribution of time and efforts to make this a successful competition.

We owe them lots of gratitude.

We also like to thank the Roder Luchtvaartclub (Aeromodelling Club of Roden) and the Doornekamp family. Without them the training facilities for the competitors would not have been possible.

I wish that after this competition we can look back to a nice championship and a time during which new contacts have been made or renewed.

That the best may win!

Frits van Laar

Chairman organization committee EC F3C 2000

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Zaterdag: 09.00 - 17.00 u.

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13.30 t/m 20.00  
donderdag 13.30 t/m 21.00  
zaterdag 10.00 t/m 17.00

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# PROGRAMMA / PROGRAM

## VRIJDAG - 18 AUGUSTUS 2000 - FRIDAY

Aankomst teams, jury leden en judges en registratie. Inschrijving vindt plaats in het registratiekantoor op het vliegterrein.	09.00 - 19.00	Arrival teams, jury members, judges and registration. Please sign in at the registration office at the contest field.
Sportbriefing voor Team Managers. Startlijsten voor de oefendag en voorrondes worden uitgedeeld aan de Team Managers	20.00	Sports briefing for team managers only. Starting lists for the practice day and preliminary rounds will be hand out to the TM's.

## ZATERDAG - 19 AUGUSTUS 2000 - SATURDAY

Inname zenders	07.00 - 07.30	Transmitter impound
Modellenkeuring, late aankomsten en registratie op het vliegveld	08.00 - 17.00	Model processing, late arrival and registration at the contest field.
Officiële oefentijd / geluidsmeting		Official practice/Sound measurement.
Openings ceremonie	18.00	Opening ceremony
Barbecue op het vliegveld. Geen diner beschikbaar in het hotel.	19.00 - 21.00	BBQ at the contest field. No dinner available at the hotel.

## ZONDAG - 20 AUGUSTUS 2000 - SUNDAY

Inname zenders	07.00 - 07.30	Transmitter impound
1 <sup>e</sup> voorronde	08.00 - 17.00	1 <sup>st</sup> round of preliminary flights

## MAANDAG - 21 AUGUSTUS 2000 - MONDAY

Inname zenders	07.00 - 07.30	Transmitter impound
2 <sup>e</sup> voorronde	08.00 - 17.00	2 <sup>nd</sup> round of preliminary flights
Receptie in het gemeentehuis van Assen, aangeboden door de burgemeester, mevr. D. van As-Kleijwegt	20.00	Reception at city hall of Assen presented by the mayor of the city of Assen, the honourable Mrs. D. van As-Kleijwegt.

## DINSDAG - 22 AUGUSTUS 2000 - TUESDAY

Inname zenders	07.00 - 07.30	Transmitter impound
3 <sup>e</sup> voorronde	08.00 - 17.00	3 <sup>rd</sup> round of preliminary flights

## WOENSDAG - 23 AUGUSTUS 2000 - WEDNESDAY

Inname zenders	07.00 - 07.30	Transmitter impound
4 <sup>e</sup> voorronde	08.00 - 17.00	4 <sup>th</sup> round of preliminary flights
Nachtvliegen(voor iedereen die wil)	22.30 n	Night flying (for every one who wants to fly).

## DONDERDAG - 24 AUGUSTUS 2000 - THURSDAY

Inname zenders	09.00 - 09.30	Transmitter impound
1 <sup>e</sup> fly off	10.00 - 12.00	1 <sup>st</sup> fly off
Sight seeing (reserve tijd voor vliegen)	13.00	Sight seeing (reserve time for flying)

## VRIJDAG - 25 AUGUSTUS 2000 - FRIDAY

Inname zenders	09.00 - 09.30	Transmitter impound
2 <sup>e</sup> fly off	10.00 - 12.00	2 <sup>nd</sup> fly off
3 <sup>e</sup> fly off	14.00 - 16.00	3 <sup>rd</sup> fly off
Prijsuitreiking en sluitingsceremonie	19.00	Price giving and Closing Ceremony
Banket (diner dansant) VIP ruimte TT circuit	20.00 - 24.00	Banquet (diner dancing) VIP room TT circuit

## ZATERDAG - 26 AUGUSTUS 2000 - SATURDAY

Vertrek deelnemers na het ontbijt		Departure of participants after breakfast.
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**UTRECHT**

OPENINGSTIJDEN:  
DINSDAG T/M VRIJDAG: 10.00-18.30  
ZATERDAG: 10.00-17.00  
DO.KOOPAVOND 18.30-21.00



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**Roosendaal**

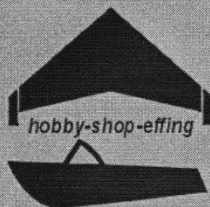
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**Veenendaal**

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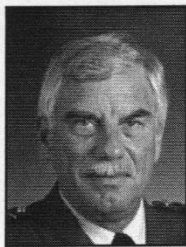
# COMITÉ VAN AANBEVELING / COMMITTEE OF RECOMMENDATION



Dhr. A.L. ter Beek  
Commissaris der  
Koningin Drenthe  
*Queen's Commissioner  
Drenthe*



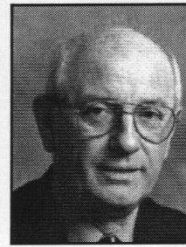
Mw. D. van As-  
Kleijwegt  
Burgemeester Assen  
*Mayor of Assen*



Luitenant Generaal  
C.J.M. de Veer  
Inspecteur-Generaal  
der Krijgsmacht  
*Inspector-General of  
the military force*



Dhr. C. van der Burg  
Voorzitter KNNvL  
*Chairman RDAА*



Dhr. J.P. Vaessen  
Voorzitter TT-Circuit  
*Chairman TT-Circuit*

## ORGANISATIE COMITÉ / ORGANISATION COMMITTEE



Frits van Laar  
Voorzitter / *Chairman (Organising director)*  
Age 52  
Started aeromodelling 20 years ago because he was interested in aviation.  
Other Hobbies, interests: Computers  
Position in aeromodelling organisations: Chairman SC F3C, treasurer MVC Crash, national and international judge F3C Member TC F3C FAJ/CIAM



Tjeerd Meinema  
Penningmeester / *Treasurer*  
Age: 62  
Flies since 1952, started with free flight, later control line. As from 1976 with RC motor models.  
Other hobbies, interests: collecting stamps, model trains  
Position in aeromodelling organisations: Treasurer of the Aeromodelling dept of the RDAА.



Piet Mulder  
Faciliteiten / *Facilities*  
Age 66  
Flies 42 years now. Started with freeflight and control line models.  
Position in aeromodelling organisations: Chairman of RCM-Assen



Peter Keim  
Vz Comm. Sportzaken / *Chairman S/C RDAА*  
Age 53  
Started flying at the age of 15. With some local friends he started a model flying club. National and international competition flying started with A-2 free flight gliders. He was competitor during the first WC F3B (1977). Major achievement so far is his World Record duration electric flight.  
Position in aeromodelling organisations: Boardmember of the Royal Dutch Aeronautical Association (KNNvL), chairman of the national sporting committee and delegate for CIAM



Rob Crèvecoeur  
Public Relations / *Public Relations*  
Age 56  
Started at the age of 12 building free flight models which didn't fly due to too much weight. Now mainly gliders.  
Other hobbies, interests: Computers, electronics, music, photography  
Position in aeromodelling organisations: Boardmember of the RDAА



Hugo Hassfeld  
Secretaris / *Secretary*  
Age 62  
Started aeromodelling at the age of 8 with a rubber motor model. Later became interested in free flight and control line. Now he flies RC fixed wing models, semi-scale.  
Other hobbies, interests: Playing golf, computers.  
Positions in aeromodelling organisations: Secretary RCM Assen



Hennie Sanders  
Age 56  
Wedstrijdleider / *Contest Manager*  
Started flying at the age of 12 with rubber motor models



André Ronteltap  
Secretaris KNNvL Model / *Secretary RDAА Modelling*  
Age 56  
Started 33 years ago with control line flight  
Other interests, hobbies: Paragliding  
Chairman of a local aeromodelling club



Wim Doornekamp  
Flightline director / *Flightline director*  
Age 52  
Started 30 years ago with a one channel aeroplane  
Other hobbies, interests: Technics and my wife Geertje



Jasper Steffens  
Sponsoring / *Sponsoring*



Paul Beks  
PR / Website / *PR / Website*  
Age 30  
Started with gliders 5 years ago.  
Other hobbies, interests: designing websites, maintaining computer networks, music and reading  
Position in aeromodelling organisations: Chairman Leidsche Luchtvaart Club. Webmaster RDAА aeromodelling dept.



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In de lange reeks van wedstrijden die de Koninklijke Nederlandse Vereniging voor Luchtvaart, afdeling Modelvliegsport in de afgelopen jaren mocht organiseren vormt het helikoptervliegen een wel heel bijzondere. Binnen de technische hobby's is er bijna geen tak van bedrijf waar technische innovaties zo sterk op de voorgrond staan als bij de modelhelikopter. Niet alleen verbeterde men de motoren en werden die bedrijfszekerder en geluidsarmer, ook de wijze van besturing werd steeds geraffineerder. Zo zijn met modelhelikopters manoeuvres mogelijk die met echte machines niet zijn uit te voeren. Het schijnbaar moeiteloos op de kop vliegen en beheerst dalen tot slechts decimeters boven de grond is daar maar één van de voorbeelden van. Het komende kampioenschap zal in het nauwkeurig vliegen van de verschillende voorgeschreven figuren daar ook weer staaltjes van laten zien.

Ook de wijze van aandrijving is de laatste paar jaar nog op een andere manier ontwikkeld. Het is nu mogelijk dank zij moderne oplaadbare batterijen en hoog rendement motoren om alleszins acceptabele vliegtijden te halen met elektrisch aangedreven modellen. Hierbij hoort men slechts het geruis van de rotor en uitlaatgassen ontbreken geheel. Daardoor kunnen dit soort helikopters ook in een binnenuimte worden gevlogen. Het gaat dan om de kleinere modellen, waarbij momenteel een van de lichtste modellen zelfs commercieel op de markt wordt gebracht, inclusief ontvangers, regelaar, servo's en de gyro. Het totaal gewicht van dit model (de Ikarus Piccolo) ligt rond de 250 gram! Men adverteert met de kreet: any time, any place, any space! Dat geeft de mogelijkheden wel aan. Experimentele bouwers weten het gewicht nog verder te drukken tot ver onder de 100 gram met helikopters die vrijwel geheel uit eigen constructies met koolstof stangetjes, miniatuur kogellagers en miniatuurcelletjes bestaan.

Een aantal modelvliegsimulatoren heeft behalve de vleugelmodellen in hun simulatorprogramma ook helikopters opgenomen. Met een aangepaste zendermodule of een adapter die de eigen zender geschikt maakt om er het programma op de computer mee te besturen kan men vaak uit meerdere helikoptermodellen kiezen. Op die manier kan men zich de besturing en de reflexen eigen maken zonder dat het modellen kost. De simulatoren verschillen van elkaar door hun opzet, waarbij sommige vooral op het 'plaatje' zijn gericht, andere, waaronder 'Real Flight', voeren daadwerkelijk duizenden aerodynamische berekeningen uit waarbij bovendien ook nog eens vele parameters van zowel het model als de omgeving kan worden ingesteld. Ofschoon het 'plaatje' niet veranderd bemerkt men dat een veranderd model, met bijvoorbeeld een sterkere motor of een ander gewicht, ook daadwerkelijk anders vliegt. Door op een dergelijke simulator te oefenen krijgt men eens te meer bewondering voor de vliegvaardigheid van de modelhelikopter piloten. Wat zij, met schijnbare achteloosheid laten zien, is het resultaat van jarenlange oefening en uiterste concentratie. Modelhelikoptervliegen is één van de moeilijkste takken van de modelvliegsport.

In experimentele zin heeft er zelfs al een modelhelikopter gevlogen die werd aangedreven met een (eveneens model-) straalturbine. Deze prachtige creatie van Kurt Schreckling, de 'vader' van de modelturbine's, kon weliswaar niet de ingewikkelde figuren vliegen die U op het Kampioenschap te zien zult krijgen, maar verhief zich van de grond en hoverde er lustig op los!

Al met al hopen we dat U als bezoekers door deze tak van modelvliegsport geboeid zult raken en mogelijk zelf wel eens een stap in die richting wilt zetten. Zowel tijdens als na het kampioenschap is er ruimschoots informatie voorhanden, waarbij de afdeling Modelvliegsport U gaarne op weg helpt met adressen en verwijzingen. U zou kunnen beginnen met een kijkje te nemen op de site van de afdeling model: [www.modelvliegsport.nl](http://www.modelvliegsport.nl) U treft hier tal van adressen, tips en trucs aan en een veelvoud aan interessante links.

Rob Crèvecoeur

In the long range of competitions that the RDAA, Aeromodelling department, could organize, this helicopter event is a very special one. Within the technical hobbies there is hardly any branch in which the technical innovations come into force as strong as with helicopters. Not just the motors were improved into better operational safety and soundproofing, but also the way of operation became more refined. With model helicopters movements are possible that cannot be performed by real machines. The seemingly effortless flying upside down and the controlled way of getting down till just a few centimeters above the ground is just one of the examples. The current Championship will show examples of the accurately performance of the prescribed figures.

Also the way of powering has been developed over the last few years in yet another way. Thanks to modern rechargeable batteries and high performance motors it is now possible to reach acceptable flying times with electric powered models. Just the noise of the whispering motor and the sound of the rotor can be heard. There is no exhaust at all. That is why these models can be flown indoor as well. Normally smaller models are used for this purpose, from which one of the lightest models is commercially exploited, including receivers, regulators, servos and the gyro. The complete weight of this model (The Ikarus Piccolo) is about 250 grams! It is advertised with the slogan: Any time, any place, any space! This shows the possibilities. Experimental builders are able to put down the weight till less than 100 grams with helicopters that are made of own constructions made of carbon bars, miniature ball bearings and miniature cells.

Some aeromodelling simulators have next to the wing models also model helicopters in their program. With an adjusted transmitter module or an adapter, that makes the own transmitter suitable to control the computer program with it, it is often possible to choose from multiple model helicopters. In this way one can learn to control and the reflexes of the model, without losing any model.

The simulators differ from design; some are graphically oriented, while others, among which "Real Flight", compute thousands of aerodynamically movements, and where many parameters on both the model as the surrounding can be set.

Though the 'picture' looks the same it can be noticed that an adjusted model, with for example a stronger motor or different weight, flies different indeed. By practicing on a simulator like that the admiration for the flying ability of the model helicopter pilots raises. That what they show with a seemingly careless is the result of years of practice and uttermost concentration. Model helicopter flying is one of the toughest branches of the aeromodelling sport.

Experimentally there has been flying a model helicopter that was driven by a model jet-turbine. This beautiful product of Kurt Schreckling, the 'father' of the model turbines was not able to fly complicated figures that you will see on this Championship, but elevated nevertheless and hovered.

We hope that you as a visitor will be fascinated to this branch of aeromodelling and that you even might consider take the step and do it yourself. Both during and after the Championship there is a lot of information available. The aeromodelling department of the RDAA likes to help you with addresses and references. You could start taking a peek at the site of the aeromodelling department: [www.modelvliegsport.nl](http://www.modelvliegsport.nl). There you will find lots of addresses, tips and tricks and interesting links.

Rob Crèvecoeur



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Name Horace Hagen  
Age 61  
Country USA  
Function President of the jury  
Years of modelling 52  
Years in F3C 29

Became fascinated at the age of 5 when he saw a B-52 crash. He was introduced in aeromodelling by a friend who built a saucer glider. Started building himself at the age of nine.

Achievements in F3C: He was the first to fly an RC helicopter in the USA in 1971. Flew several Nationals until 1975. Organised 12 regional, two national, 2 US team trials and 1 World Championships.

Other Hobbies, interests: Photography and computers

Position in aeromodelling organisations: Chairman of the AMA R/C Helicopter Contest Board, Chairman of the F3C Team Selections Committee. Chairman of the FAI/CIAM F3C subcommittee



Name Frits van Laar  
Age 52  
Country Netherlands  
Function Reserve Jury Member  
Years of modelling 20  
Started aeromodelling because he was interested in aviation.

Other Hobbies, interests: Computers

Position in aeromodelling organisations: Chairman SC F3C, treasurer MVC Crash, national and international judge F3C Member TC F3C FAI/CIAM



Name Peter Keim  
Age 53  
Country Netherlands  
Function Jury Member  
Years of modelling 38  
Started at the age of 15. With some local friends he started a model flying club. National and international competition flying started with A-2 free flight gliders. He was competitor during the first WC F3B (1977). Major achievement so far is his World Record duration electric flight.

Position in aeromodelling organisations: Boardmember of the Royal Dutch Aeronautical Association (KNVvL), chairman of the national sporting committee and delegate for CIAM



Name Dr. Georg Breiner  
Age 56  
Country Austria  
Function Jury Member  
Years of modelling 50  
Years in F3C 20  
Achievements in F3C Jury member of 4 WC's and 5

Continental Championships. Organised 1 WC and one EC  
Position in aeromodelling organisations President of the Aeromodelling Federation of Austria, CIAM delegate

## JUDGES / BEOORDELAARS



Name Lucio della Toffola  
Age 43  
Country Italy  
Function Judge  
Years of aeromodelling 28  
Years in F3C 15  
Achievements in F3C International F3C judge since

1986. Judge in 4 European F3C championships, 3 world championships. 3 times team manager, contest director of the 1998 European F3A championship.

Other interests, hobbies: Swimming and playing golf.

Positions in aeromodelling organisations Member of the CIAM F3C subcommittee.



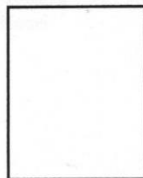
Name Jurg Schmitter  
Age 52  
Country Switzerland  
Function Judge  
Years of modelling 37  
Years in F3C 18  
Began at the age of ten with his father with a Free Flight

model

Achievements in F3C Organised the WC '87 in Bern, has been jury and judge for many WC's CC's and World Air Games

Other Hobbies, interests: Political Education

Position in aeromodelling organisations: Till '99 president of the Schweizerischer Modellflugverband, alternate delegate CIAM-FAI, Member of F3C s/c CIAM-FAI



Name Dag Eckhoff  
Country Norway  
Function Judge



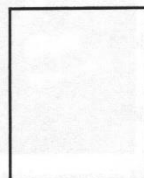
Name Jeremy Fox  
Age 27  
Country United Kingdom  
Function Judge  
Years of modelling 15  
Years in F3C 7

Started aeromodelling because his father was a keen aeromodeller in his earlier years. He became interested in helicopters because it looked interesting.

Achievements in F3C: Judge at the 1998 European Championship, 1999 World Championship. 9th at UK 1999 nationals in F3C. 5th at 2000 Scottish National Championship in F3C. Judged at many UK contests over the last 5 years.

Other interests, hobbies: Classical, blues, rock guitar, fishing.

Positions in aeromodelling organisations: F3C CIAM subcommittee member, competition secretary UK Helicopter association AHA.



Name Wim Veersma  
Age 37  
Country Netherlands  
Function Judge  
Years of modelling 11  
Was interested in modelhelicopters since he was 15, but lack of money made that he only bought his first model

10 years later. He is fascinated by the technics and the fine mechanics.

Other Hobbies, interests Sailing

Position in aeromodelling organisations Member of the F3C subcommittee and jury at the Dutch Nationals F3C

## JUDGES (CONT.)



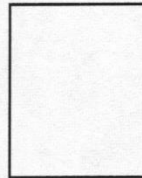
Name Tobias Schulz  
Age 38  
Country Germany  
Function Reserve Judge  
Years of modelling 28  
Years in F3C 10

At the age of ten he received a kit of a glider

Achievements in F3C European Team champion 1992

Other Hobbies, interests: Cooking

Position in aeromodelling organisations: Delegate in S/C F3C



Name Alex Goossens  
Country Belgium  
Function Reserve Jury Member

## AUSTRIA / OOSTENRIJK



Name Franz Böhm  
Age 44  
Function Team Manager  
Years of modelling 25  
Years in F3C 20

His hobby is his profession (Robbe Austria)



Name Andreas Kals  
Age 19  
Function Competitor  
Years of modelling 9  
Years in F3C 2

Started with soaring models and later with motormodels.

Learned to fly helicopters from his father at the age of 10

Achievements in F3C Achieved the 1st place in Austria in the RC-HC-C class and one year later in the RC-HC-B class. Last year he became 3rd in the National Championships F3C

Other Hobbies, interests: Swimming, biking, skiing and running

Model Eagle Hirobo



Name Wolfgang Worgas  
Age 33  
Function Competitor  
Years of modelling 8  
Years in F3C 7

Started when he was a cook in New Zealand. He didn't have a car and he thought he could learn to fly in the garden

Achievements in F3C National Champion 1999/2000, 18th at the last World Championship

Other Hobbies, interests: Golf, tennis, squash, scuba diving

Position in aeromodelling organisations: Regional helicopter referent

Model XL Pro II Miniature aircraft



Name Robert Schornsteiner  
Age 40  
Function Competitor  
Years of modelling 20  
Years in F3C 10

Achievements in F3C: Team member since 1993 (WC's Austria '93, Japan '95, Turkey '97, EC's Poland '94, Finland '96, Austria '98) Winner of the Ö-Pokal 1999

Model Futura

## BELGIUM / BELGIË



Name Ger van Zeijl  
Age 47  
Function Team Manager  
Years of modelling 3  
Years in F3C 3

Became interested in 1995 when he saw the Japanese champion in Belgium

Achievements in F3C Team Manager for the first time in Poland '99

Other Hobbies, interests: Fly-fishing, mountain-biking



Name Guy Vanderschelden  
Age 40  
Function Competitor  
Years of modelling 26  
Years in F3C 17

Started at the age of 14 with boats, later his father pushed him to start with helicopters

Other Hobbies, interests: Airbrush

Position in aeromodelling organisations: Coordinator for the Belgian Championships

Model X-treme



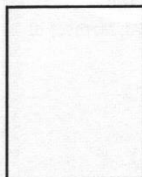
Name David Dutrieux  
Age 26  
Function Competitor  
Years of modelling 6  
Years in F3C 5

Started in 1994, but got interested in 1987 when Curtis won the WC for the first time

Achievements in F3C: 3 times consecutive Belgium Champion, 26th at EC 1998, 46th at WC 1999

Other Hobbies, interests: Computers

Model Swift 60 / Caliber



Name Van Michel

## CYPRUS



Name Emilios Kassianides  
 Age 53  
 Function Team Manager  
 Years of modelling 40  
 Years in F3C 12  
 Started at the age of 13 when he was invited by a cousin for control line and free flight

Achievements in F3C: He has been the official team manager F3C of cyprus for the last few years. Was team manager for F3A as well.

Other Hobbies, interests: Power Flying PPL Holder, swimming and windsurfing

Position in aeromodelling organisations: Treasurer of the Cyprus Aerospport Federation 2000/2001 and of the Limassol Aero Club 1999/2000



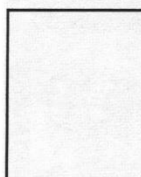
Name Chris Georgiades  
 Age 41  
 Function Competitor  
 Years of modelling 28  
 Years in F3C 16  
 Started at the age of 13 by watching at school other people flying control line models

Achievements in F3C: Cyprus champion for the past 8 years, participated w WC's the World Air Games and 3 EC's

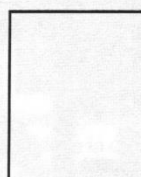
Other Hobbies, interests: Football

Position in aeromodelling organisations: Committee member Cyprus Aerospport Federation, Committee member Nicosia Aeromodelling club  
 Model Robbe futaba SE

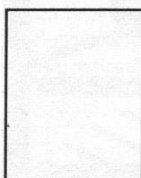
## CZECH REPUBLIC / TSJECHIË



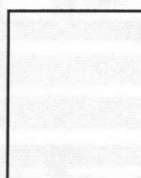
Name Jiri Venzara  
 Function Team manager



Name Ludvik Novotny  
 Function Assistant Team Manager



Name Martin Ráček  
 Function Competitor



Name Petr Novotny  
 Function Competitor

## DENMARK / DENEMARKEN



Name Svend Plougstrup  
 Age 43  
 Function Team Manager  
 Years of modelling 25  
 Years in F3C 9  
 Started at the age of 17, inspired by a member of a local modelling Club. He participated for about 10 years in

(inter)national F3C competitions

Achievements in F3C: Participated as judge and later as competitor in national competitions, Became team manager for the national F3C team in 1986

Position in aeromodelling organisations: Chairman of the national competition organisation



Name Søren Østergaard  
 Age 37  
 Function Competitor  
 Years of modelling 23  
 Years in F3C 14  
 Started at the age of 14, inspired by a book. Learned how to build models at school

Achievements in F3C Last three years number 1 in Denmark, 12th ath the WC in Turkey

Other Hobbies, interests: Cars and his family  
 Model X-Zell Pro



Name Kaj Nielsen  
 Age 57  
 Function Competitor  
 Years of modelling 43  
 Years in F3C 16  
 Stared with control line and gliding  
 Achievements in F3C: Participated 10 times in the national

competition

Other Hobbies, interests: Hunting

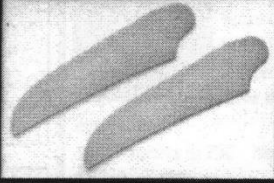
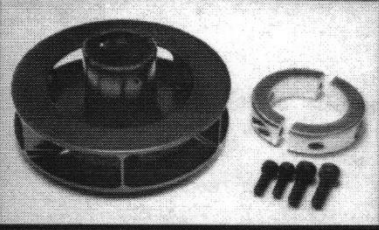
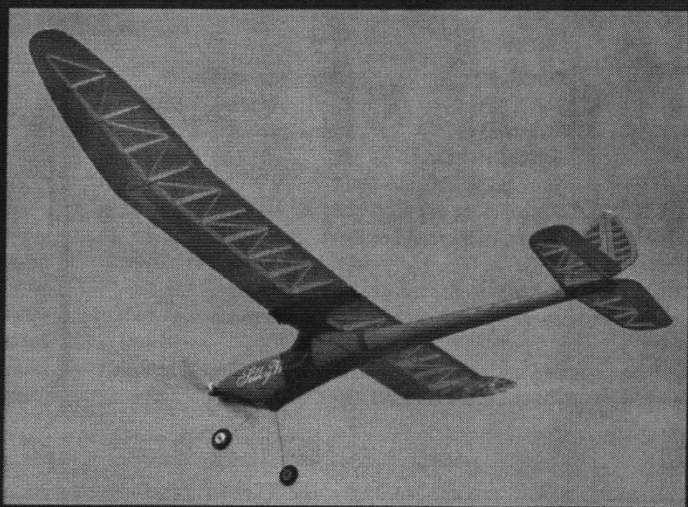
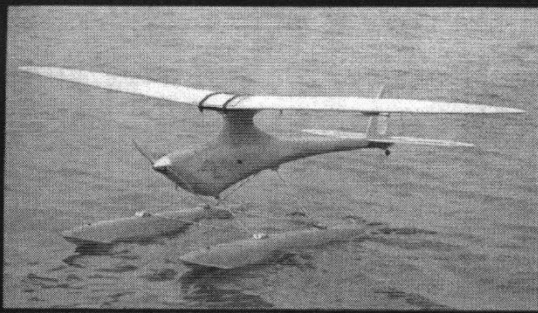
Model Nielsen -scorpion



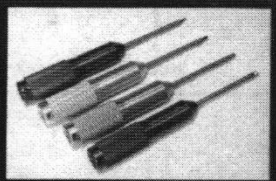
Name Michael Nyegård  
 Age 38  
 Function Competitor  
 Years of modelling 24  
 Years in F3C 16  
 Started with sailplanes, later on with ordinary planes with engines and since 1985 only helicopters

Achievements in F3C: Won several National Championships, achieved the 8th and 10th place in EC's and was 17th at the WC

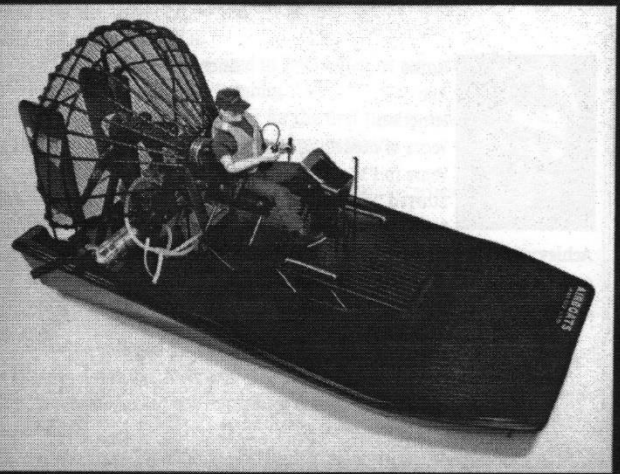
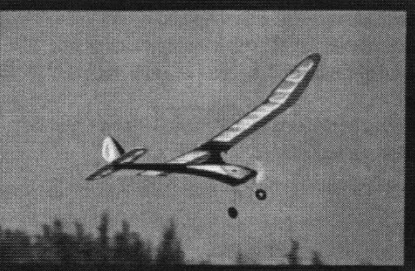
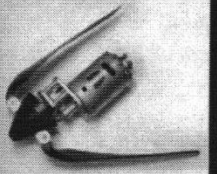
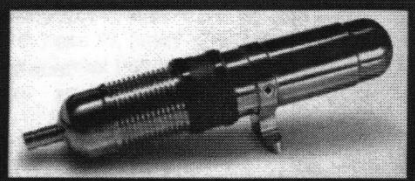
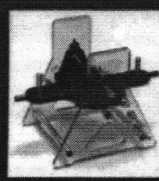
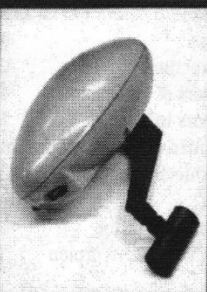
Model Exell Graphite SE



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## FINLAND



Name Jyrki Lehtinen  
Age 31  
Function Team Manager / Competitor  
Years in aeromodelling 22  
Years in F3C 14  
Achievements in F3C and 1999 Finnish Champion in 1997.1998

Other interests, hobbies: Karate  
Model: Hirobo Eagle 98 EX Nova 3



Name Vesa-Pekka Murtovaara  
Age 17  
Function Competitor  
Years of modelling 9  
Years in F3C 5  
Achievements in F3C: 1998 2nd in Finnish National Championship

Other interests: Boyscouting, mountain biking  
Model: Hirobo Eagle 98 EX



Name Ari Holmström  
Age 18  
Function Competitor  
Years of modelling 4  
Years in F3C 4  
Achievements in F3C 2nd in F3C Finnish Nationals 1999

Model: JR Scorpio

## FRANCE / FRANKRIJK



Name Daniel Choureaux  
Age 48  
Function Team Manager  
Years of modelling 25  
Years in F3C 10  
Achievements in F3C World Championship Press last year (1999) at the F3C

Other Hobbies, interests: Motorbikes and flying (professional and private pilot)



Name Pascal Brianchon  
Age 31  
Function Competitor  
Years of modelling 20  
Years in F3C 12  
Started at the age of 11 with his father. Began with air-planes

Achievements in F3C: Vice French Champion in '96, '98 and '99. Member of the French team in '97, '98, '99. 22nd in the WC in Poland '99  
Position in aeromodelling organisations: Vice president of the Aero Modele Club Havre. President of the Comite Regionnal in Aeromodelling  
Model Superio JRWC



Name Stéphane Brianchon  
Age 25  
Function Competitor  
Years of modelling 15  
Years in F3C 7  
Started at the age of ten with an aircraft. His brother learned him how to fly a helicopter

Achievements in F3C: 5th at the French Championships in '98 and '99. Reserve for the French team in '98 and '99.  
Other Hobbies, interests: Pilot some gliders and big acrobatic models  
Model Robbe Millennium 60



Name Laurent Lombard  
Age 35  
Function Competitor  
Years of modelling 18  
Years in F3C 3  
Started at the age of 17 with F3A. Participated in the French team for 10 years and became 12th at the last F3A

WC  
Achievements in F3C: 14th at the WC F3C in Poland  
Other Hobbies, interests: Music  
Model Caliber 60 Kyosho

## GERMANY / DUITSLAND



Name Heinz Joachim Greber  
Age 44  
Function Team Manager  
Years of modelling 8  
Years in F3C 4



Name Oliver Graf  
Age 29  
Function Competitor  
Years of modelling 12  
Years in F3C 12  
Model Hirobo Eagle



Name Rüdiger Feil  
Age 33  
Function Competitor  
Years of modelling 20  
Years in F3C 4  
Started with modelling at the age of 13. Was inspired by his father who was a modeller too

Achievements in F3C: **1998 European Champion**. 3rd in Nationals in 1998, Antional Champion in 1999, 4th at the WC in 1999  
Model Black Shaik / Eagle EX II

**JR PROPO**

Competition 60 Helicopter  
*Scorpion 60*

Extreme Tail lock System  
PIEZO GYRO **G5000T**

High-end Radio System  
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**JR PROPO**  
Helicopter Division

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## GERMANY / DUISLAND (CONT.)



Name Johann Höule  
Age 38  
Function Competitor  
Years of modelling 10  
Years in F3C 10



Name Sven Rößner  
Age 36  
Function Competitor  
Years of modelling 30  
Years in F3C 4  
Began at the age of 6 inspired by his father, Walter Rößner  
Achievements in F3C 4th at the German nationals in 1999. Participated in the WC in Poland in 1999 (Team 3rd place, individual 12th place)  
Other Hobbies, interests: Tennis  
Model Dolphin Mechanik "Genesis"

## ISRAEL



Name Yossi Shveka  
Age 40  
Function Team Manager  
Years of modelling 27  
Started at the age of 13 with a small model airplane



Name Elad Hayon  
Age 16  
Function Competitor  
Years of modelling 9  
Years in F3C 3  
After going with his father, who had 2 years experience in modelling, he started to fly.

Achievements in F3C: 2nd in Nationals, this is his 3rd world/continental championship

Other Hobbies, interests: Internet, 3D helicopter flying, sport  
Model Xcell



Name Efraim Kastiel  
Age 27  
Function Competitor  
Years of modelling 16  
Years in F3C 13  
Achievements in F3C Participated in EC's in 1994 (6th), 1996 (5th), 1998 (10th) and in the WC in 1999 (13th)

Other Hobbies, interests: Kart racing, ultralight flying

Position in aeromodelling organisations: Israeli Sports Committee  
Model Millennium



Name Aviv Levy  
Age 12  
Function Competitor  
Years of modelling 2  
Years in F3C 1  
Followed his father in aeromodelling  
Achievements in F3C: 3rd place in Israel, 4th in the Junior

Category in the 1999 WC in Poland

Other Hobbies, interests: Swimming, computers  
Model Hirobo

## ITALY / ITALIA



Name Paolo Dapporto  
Age 61  
Function Team Manager  
Years of modelling 46  
Position in aeromodelling organisations: President Italian Aeromodeller



Name Fabio Livi  
Age 30  
Function Competitor  
Years of modelling 12  
Years in F3C 10  
Achievements in F3C: Italian champion 1990  
Model Xcell Pro 3



Name Stefano Lucchi  
Age 45  
Function Competitor  
Years of modelling 24  
Years in F3C 24  
Achievements in F3C 4th WC F3C Berne, 2nd EC F3C France and 10 times Italian champion

Other Hobbies, interests: Surfing, tennis

Model Hirobo Eagle WC 99



Name Massimiliano Dillich  
Age 36  
Function Competitor  
Years of modelling 8  
Years in F3C 8  
Model Hirobo Eagle WC 99

# RAPTOR

**30 CLASS RC HELICOPTER**

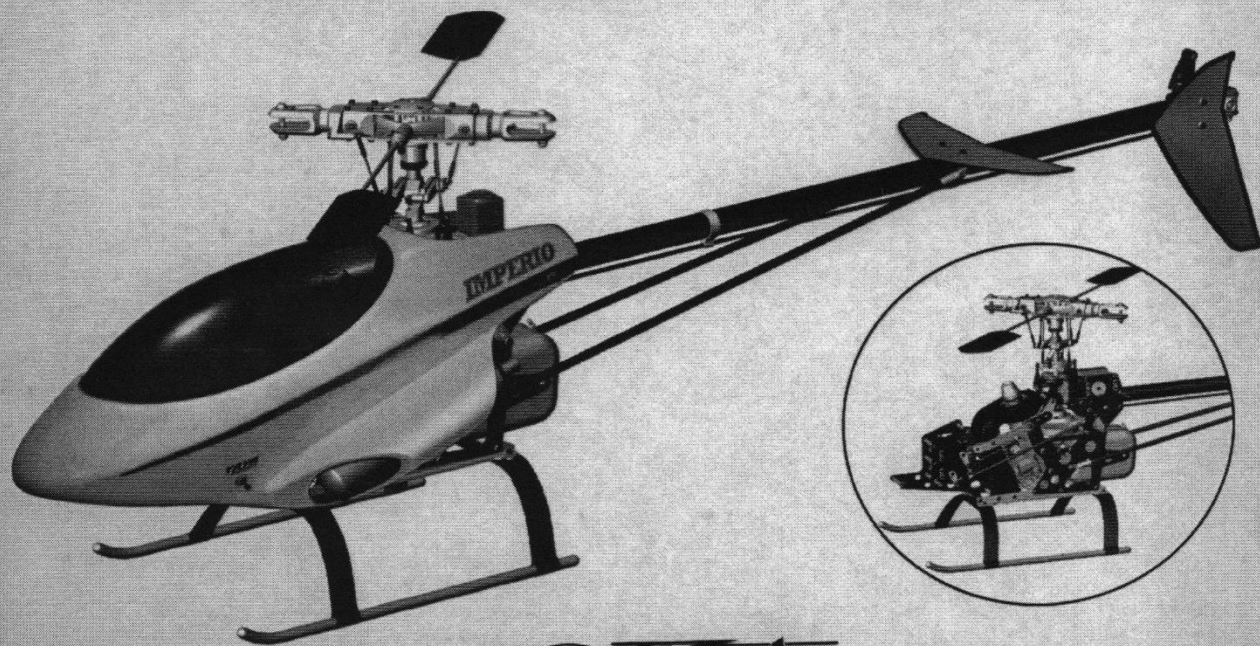
Main rotor dia : 1245mm  
 Tail rotor dia : 230mm  
 Overall length : 1100mm  
 Main gear ratio : 9 : 1  
 Tail rotor ratio : 4.56 : 1  
 All up weight : 2850g  
 Engine : 32-36 class



# IMPERIO

**HI-QUALITY 60 CLASS RC HELICOPTER**

Main rotor dia : 1570mm  
 Tail rotor dia : 260mm  
 Overall length : 1370mm  
 Main gear ratio : 9.33 : 1  
 Tail rotor ratio : 4.76 : 1  
 All up weight : 4850g  
 Engine : 60-91 class



## NETHERLANDS / NEDERLAND



Name Bryan Stil  
Age 37  
Function Team Manager  
Years of modelling 9  
Years in F3C 2  
Started in 1991 with helicopters when he was 28 years old  
Achievements in F3C: 4 times Dutch champion in the B program

Other Hobbies, interests: Badminton

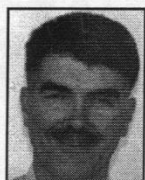


Name Michel Jager  
Age 33  
Function Competitor  
Years of modelling 11  
Years in F3C 5  
Started with fixed wing flying at the age of 22  
Achievements in F3C: 3 times 3rd place Dutch  
Championship F3C, 44th place WC Poland '99

Model Superio CCPM



Name Jan Wullink  
Age 48  
Function Helper  
Years of modelling 10



Name Cees Verplanke  
Age 49  
Function Competitor  
Years of modelling 30  
Years in F3C 20  
Started with gliders  
Achievements in F3C: 14 times Dutch champion, WC's best

place 14th

Other Hobbies, interests: Work in the garden

Position in aeromodelling organisations: Teach helicopterpilots to fly in the club

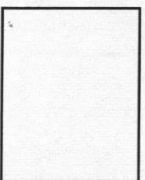
Model Scorpion 60 JR



Name Freddy Coenen  
Age 42  
Function Competitor  
Years of modelling 20  
Years in F3C 10  
Started at the age of 22. He was working as a helicopter specialist at the BO 105 and Alouette III at the Royal Dutch

Airforce. It inspired him to buy a model helicopter and started with a BELL212 from Graupner

## NORWAY / NOORWEGEN



Name Rune Nessen  
Age  
Function Competitor  
Model TSK 60 V2 CCPM



Name Einar Bergseth  
Age 29  
Function Competitor  
Years of modelling 8  
Years in F3C 3  
Achievements in F3C: 2nd place Norwegian Championship 1999, 53rd place WC 1999 in Poland

Model Robbe Millennium



Name Ørjan Haug  
Age 33  
Function Competitor  
Years of modelling 5  
Years in F3C 2  
Achievements in F3C: 3rd place in the Norwegian Championship 1999

Other Hobbies, interests: Paragliding

Model Caliber 60

## SPAIN / SPANJE



Name Luis Valdeolmos  
Age 51  
Function Team Manager  
Years of modelling 7  
Years in F3C 5  
Started with aeromodelling because of his son when he decided to fly helicopters

Achievements in F3C: Helper in Ankara (F3C WC '97) and Spain National.

Team Manager in Vienna (EC '98) and Deblin (WC '99)

Pos. in aeromodelling organisations: Contributor in a modelling magazine



Name Javier Valdeolmos  
Age 19  
Function Competitor  
Years of modelling 7  
Years in F3C 5  
Started with 13 years with helicopters. Started in R/C electric cars when he saw a R/C helicopter in a magazine

Achievements in F3C: 4 consecutive times Spanish national champion. 48th

WC/WAG in Turkey '97, 24th EC Vienna '98, 36th WC Deblin '99, 10th

International Air Meeting 1999 in Ojima, Japan.

Model Caliber 60



Name Jose Cano  
Age 34  
Function Competitor  
Years of modelling 21  
Years in F3C 10  
Started in aeromodelling with a small control line plane.  
Loved aeromodelling as a child

Achievements in F3C: 2nd place in 1997, 1998 and 1999 Spanish

Championships. 47th place WC of 1999 in Poland

Other Hobbies, interests: Guitar and Windsurfing

Position in aeromodelling organisations: Contributor in a spanish modelling magazine

Model Hirobo SST-Eagle Z-EX 98

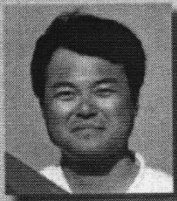
# ラジコン技術

Radio Control Technique

**IAM**  
INTERNATIONAL AIRMEET



## INTERNATIONAL AIR MEET & AERONAUTIC PAGEANT



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*Wolfgang Matt*



*Sean Memurtry*



*Zuique Somenzini*



*Giichi naruke*



*C. Paysant  
Le-Roux*



*Frazer Briggs*



*Chip Hyde*



*Youichirou Akiba*

*International Air Meet, an event where world's top 10 fliers compete to see whos the best among the best in RC acrobatics. And R/C Aeronautic Pageant, a fun-fly evnt where modelers from all over Japan gather with their proud creations and fly them through the air.*

*These two major events will be held again this year on November 2nd and 3rd, 2000 in Gunma, Japan.*

<http://www.rc-tech.co.jp/>

## SWEDEN / ZWEDEN



Name Carl-Otto Strandh  
Age 55  
Function Team Manager  
Years of modelling 11  
Position in aeromodelling organisations: Member of the Swedish Air Modelling Org. And of the F3C subcommittee (CIAM)



Name Petter Strandh  
Age 26  
Function Competitor  
Years of modelling 11  
Years in F3C 8  
Model Robbe Futura SE



Name Henrik Nilsson  
Age 23  
Function Competitor  
Years of modelling 15  
Years in F3C 8  
Achievements in F3C: Swedish Champion 96 99  
Other Hobbies, interests: Snowmobiles  
Model Hirobo Eagle 2 EX 98



Name Lars Bexander  
Age 47  
Function Competitor  
Years of modelling 27  
Years in F3C 11  
Model Caliber

## SWITZERLAND / ZWITSERLAND



Name Daniele Graber  
Age 50  
Function Team Manager / competitor  
Years of modelling 36  
Years in F3C 26  
Saw his first aeromodell at the age of 10  
Achievements in F3C: 3 times continental champion, 13

times national champion

Other Hobbies, interests: Builder 1:1 full size Helicopter

Position in aeromodelling organisations: Member of the technical commission Aero-Club of Switzerland

Model Hirobo Eagle



Name Patrick Kessler  
Age 26  
Function Competitor  
Years of modelling 15  
Years in F3C 5  
Started at the age of 10 with Airplane modelling, because it was his fathers hobby

Achievements in F3C: Swiss Champion

Model Hirobo Ex 99



Name Stephan Meier  
Age 38  
Function Competitor  
Years of modelling 25  
Years in F3C 11  
Achievements in F3C: 3rd in nationals in '94 and '98, 2nd in '95 and '97, Swiss champion in '96. 12th WC '95, 20th WC

'97, 25th WC '99

Model XL-Pro II WC

## UNITED KINGDOM / VERENIGD KONINKRIJK



Name Gavin Duke  
Age 25  
Function Team Manager  
Years of modelling 3  
Years in F3C 1  
Always had interest in flight and after visiting model shows and events. Decided to buy a helicopter which then

led into flying fixed wing aircraft

Achievements in F3C: Team manager for the 1999 F3C WC. Also judged numerous British F3C events.

Other Hobbies, interests: Flying fixed-wing aircraft and some course fishing

Position in aeromodelling organisations Treasurer of the Aerobatic Helicopter Association



Name David Wilshere  
Age 34  
Function Competitor  
Years of modelling 31  
Years in F3C 10  
His father started with a scopesoarer (Graupner Dandy)

Achievements in F3C: Participated in various UK and Scottish competitions. 4th with the UK team at the WC in Poland

Other Hobbies, interests: All fixed wing flying, F5D, F3A, funfly, turbine, pylon.

Position in aeromodelling organisations: Chairman AHA UK (aerobatic Helicopter Association), writer in Model Helicopter World

Model XL-Pro 2K Miniature Aircraft



Name Mark Tilbury  
Age 32  
Function Competitor  
Years of modelling 27  
Years in F3C 10  
Started at the age of 5 with the help of his father. Now owns two model shops, competes in F3C around the world

Achievements in F3C: 4 times National champion, 3rd place EC '98, 4th WC '99 (Team). 7 times british team member

Other Hobbies, interests: Racing Model Cars

Position in aeromodelling organisations: UK subcommittee member F3C

Model Kyosho Caliber



Name Mark Christy  
Age 20  
Function Competitor  
Years of modelling 14  
Years in F3C 7  
His father was involved in aeromodelling. Started flying at the age of 6, control line models. One year later he started fixed wing flying. At the age of 9 he started with helicopters and entered his first competiton at the age of 11.

Achievements in F3C: WC '99 (10th) WC '97 (11th) EC '98 (2nd) British National Championships: '99 (1st) '98 (1st) '97 (1st) '96 (2nd), 95 (2nd)

Other Hobbies, interests: Guitar, computer, Formula One car racing  
Position in aeromodelling organisations: Competition Secretary (Aerobatic Helicopter Association)

Model JR Superio

## FEDERATION AERONAUTIQUE INTERNATIONALE

De FAI is de overkoepelende organisatie van de gehele sportluchtvaart op wereldniveau. Hieronder vallen o.a. zweefvliegen, ballonsport, sportvliegen, parachutespringen, e.a. Het FAI-hoofdkwartier, gevestigd in Lausanne, is de officiële bron van documentatie, nodig voor het organiseren van internationale wedstrijden. De FAI ziet er op toe dat de organisatie van Wereld- en Continentale kampioenschappen, benevens het vestigen van wereldrecords, geschiedt overeenkomstig de FAI-reglementen.

Binnen de FAI heeft iedere tak van sport zijn eigen commissie. Voor het modelvliegen is dat de CIAM (Commission Internationale d'Aeromodellisme).

De FAI is opgericht in 1905 en er zijn ongeveer 85 landen bij aangesloten.

## KONINKLIJKE NEDERLANDSE VERENIGING VOOR LUCHTVAART

Ieder lid van de FAI heeft een Nationale Organisatie (National Airsports Control) die de luchtsportzaken binnen zijn grenzen behartigt. Voor Nederland is dat de Koninklijke Nederlandse Vereniging voor Luchtvaart. Binnen de KNVvL zijn de verschillende luchtsporten georganiseerd in afdelingen welke tot op zekere hoogte autonoom zijn. Zo zijn er afdelingen voor zweefvliegen, parachutespringen, modelvliegen, e.a.

De gehele KNVvL telt ca. 15.000 leden, waarvan iets minder dan 5000 modelvliegers in ongeveer 110 clubs.

### FAI JURY

In geval van problemen tussen de wedstrijdleiding en deelnemers die niet in onderling overleg kunnen worden opgelost, wordt een uitspraak gevraagd aan het scheidsgerecht, de zgn FAI jury. Deze jury wordt benoemd door de organisatoren, maar vereist goedkeuring van de FAI i.c. de CIAM. De drie juryleden moeten van verschillende nationaliteit zijn. Vanzelfsprekend moet de jury goed op de hoogte zijn van de klasse waarin de wedstrijd wordt gehouden en de daarvoor geldende reglementen.

### BEOORDELAARS

De modellen van de deelnemers worden in de wedstrijd beoordeeld door een groep van 5 beoordelaars voor de beoordeling van het vliegen. Deze beoordelaars moeten van verschillende nationaliteit zijn. Zij worden door de organisatie van het evenement gekozen uit een door de FAI-CIAM goedgekeurde lijst, en deze keuze moet tevens door de CIAM worden bevestigd.

## FEDERATION AERONAUTIQUE INTERNATIONALE

The FAI is the worldwide governing body for all airsports, such as gliding, ballooning, general aviation, aeromodelling, and others. FAI headquarters in Lausanne is the official source for documentation for all international competitions; it supervises the organisation of World- and Continental Championships and the establishment of World Records in accordance with FAI regulations.

Within the FAI each discipline has its own commission. For aeromodelling this is being the CIAM (Commission for International Aeromodelling)

The FAI has been founded in 1905 and has approx. 85 member-countries.

## ROYAL DUTCH AERONAUTICAL ASSOCIATION

Each member of the FAI has a designated National Airsports Control to administer airsports-matters within its borders. The Royal Dutch Aeronautical Association, founded in 1907, is established for this purpose in the Netherlands. The association houses sections for the various disciplines of airsports, such as gliding, ballooning, general aviation, aeromodelling, and others.

Total membership is approx. 15.000, of which nearly 5000 aeromodellers, spread over approx. 110 clubs.

### FAI JURY

In case problems arise between the Contest Director and competitors cannot be solved by mutual agreement, the FAI jury is requested to take a decision. The Jury is nominated by the organising country but must be approved by the FAI i.c. the CIAM. Guiding principles are that each member shall be of different nationality. As a matter of course the jury must have good knowledge of the relevant class or category and the appropriate rules.

### JUDGES

The models of the participants will be judged by a panel of five judges for the flight judging. The judges must be of different nationality. They will be chosen by the organiser of the event from a list approved by FAI-CIAM, and this choice must also be approved by the CIAM.

Vraag onze gratis infokrant aan

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# **CALIBER 60**

**Caliber 60's exceptional engineering answers the wishes of all F3C pilots. You've never experienced such smooth, quiet flight in a competition helicopter — or enjoyed such unlimited potential. Uniquely engineered for extreme precision and quality, the Caliber 60 does more than meet your demand for outstanding performance. It also offers the pleasure of knowing you own the machine that raised the world standard for perfection in an RIC helicopter!**

#### **Technical Data:**

**Length:** 1395mm  
**Width:** 185mm  
**Height:** 470mm  
**Main rotor:**  $\phi$  1520mm  
**Tail rotor:**  $\phi$  260mm  
**Weight:** 4480g(approx.)

#### **Required for operation (Not included):**

Radio control set: Multi channel with servos and gyro  
Engine: .60~.68(2 stroke),  
muffler,main rotor blades(660mm),  
fuel,engine starting equipment



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