

RCM

63rd MODEL ENGINEER AND MODELLING EXHIBITION OLYMPIA LONDON 31st DECEMBER 1993-8th JANUARY 1994

RADIO CONTROL MODELS & ELECTRONICS



HANNO FLIES BACK!

Prettner wins World Champs for 7th time



AEROLYMPICS 3
TOP PILOTS
AND THEIR MODELS
- FULL TECH
TABLES INSIDE



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Argus SPECIALIST PUBLICATION **BEST VALUE**

► F3A Team Manager, Ray Brotherston, kept a watchful eye on the performances of the GB Aerobatic team. Standing next to Ray is Richard Hirst, with Ken Binks and Jon Tappin in front. Ken reached the flyoffs, coming 18th overall.



Aerolympics 3

*First pics from the Model World Championships in Austria.
18-25th September 1993*



► ▲ Wolfgang Matt watches the action on F3A flightline number 2. Wolfgang flew his jazzy Rubin design into 3rd place.

► Tony Frackowiak of the USA follows another competitor on the sticks before flying his Typhoon. Finished 9th.



Mid September saw a record number of entrants gather together in the Austrian province of Carinthia to compete for the World Championship titles in F3A Aerobatics, F3D Pylon Racing and F3C Helicopters. Hosted by the Austrian Aero-Club, these events were combined under the impressive title of 'Aerolympics 3', this being the third such gathering of the World's top

model pilots. A total of 38 different nations were represented, including teams from several of the ex Soviet bloc countries.

On the spot reports of the action from each discipline will follow in future issues. But this month, we concentrate on presenting many of the leading pilots and their aircraft, together with comprehensive 'Tech Tables' on their models and radio equipment...



◀ **World Champion for the seventh time, Hanno Prettner proved that two strokes are still competitive. Uses an OS 'Hanno Special' in his Mystic 60.**

Organisers

The 1993 Aerolympics were organised under the auspices of the Austrian Aero Club, on behalf of the FAI, by specialist members of the Carinthian Model Aeronautical Association. Such a mammoth task is not easily undertaken, but the Austrian modellers did extremely well, all the more impressive when you consider that they total only around 6,000 in number.

Competitions were run under the 1989 FAI Sporting Code, including rule changes approved up until April 1993. The official languages were German and English, with the latter used for interpreting rules and settling disputes. RCM&E would like to thank the organisers and contestants for their help in covering this event. ●



F3A TEAM RESULTS		
RANK	NATION	TEAM MANAGER NAME
1	Japan	Hoko
2	USA	Sollman
3	Canada	Marsden Ch. Beck
4	Liechtenstein	Zehethofer
5	Austria	Uhlir J.
6	Germany	Liu W.
7	China	Leffler
8	France	Bothenron
9	United Kingdom	Paine
10	Australia	Somenzini E.
11	Argentina	Giozenderer
12	Switzerland	DeWinter J.
13	Belgium	Cull
14	Italy	Sundström L.
15	Sweden	Preterius
16	South Africa	Moe
17	Norway	Yang
18	Korea	Valles V.
19	Finland	van Loon
20	Netherlands	Volf F.
21	Czech Republic	Kristensen
22	Denmark	Tubhong B.
23	Thailand	Constant
24	Ireland	Bombard
25	Spain	Ivanov
26	Russia	Mok
27	Singapore	Lai
28	Taiwan	Mao
29	Portugal	Richartz
30	Luxembourg	Romano V.
31	Brazil	Cruggstaff N.
32	New Zealand	Graham
33	Chile	Makarov
34	Ukraine	



Local hero

All the way through the F3A preliminary rounds, four stroke models looked to be the only ones with a fighting chance of securing the World title, YS 120 engines dominating the event. Rare indeed was the sight of a top competitor flying a two stroke model, the most notable of these being Hanno Prettner, who was keeping faith with the Hanno Special developed for him by O.S.

Despite great respect for the flying abilities of the local hero, talk on the flightline seemed mixed on whether his flying style could sway the judges, who were now becoming more and more accustomed to the closer, more compact schedules of the four stroke fliers. Hanno's use of large, smooth manoeuvres, combined with superb use of the throttle throughout its full range

to maintain constant speed, was a delight to watch, every flight being studied in almost complete silence by the large crowd of appreciative spectators. But was he still good enough to win?

Hanno kept everyone guessing right up until the final rounds, keeping the pressure on the defending Champion, Chip Hyde, until the end of the preliminaries, but unable to topple the American, who led the way into the flyoffs with his OS 120 powered Dr Jekyll design. Wolfgang Matt, another previous Champion of the World, was also showing good form, flying into the finals in second place, with Prettner third.

However, the best was still to come, with Hanno reserving his best performance for the flyoffs, winning both final rounds to take the World Championship crown for the seventh time. ●

▲ **As usual, the Japanese fielded some superbly constructed models. Hajime Hatta's aircraft was particularly well finished.**

◀ **Top Americans in F3A and F3D. Chip Hyde just missed the world title, coming second in Aerobatics. Richard Verano did slightly better over in Pylon, becoming the World Champion for 1993.**

◀ **Quique Somenzini of Argentina waits anxiously for his flight, as rain sweeps up the valley. Placed fourth with his YS 120 AC powered Desafio design.**



F3A FINAL RESULTS

RANK	SURNAME	CHRISTIAN NAME	NATION	TOTAL
1	Prettner	Hanno	Austria	2000.0
2	Hyde	Chip	USA	1971.0
3	Matt	Wolfgang	Liechtenstein	1868.1
4	Somenzini	Quique	Argentina	1920.1
5	Hatta	Hajime	Japan	1901.2
6	Naruke	Giichi	Japan	1890.4
7	von Lintow	David	USA	1885.6
8	Akiba	Yoichiro	Japan	1894.0
9	Frackowiak	Anthony	USA	1888.0
10	Kristensen	Ivan	Canada	1859.5
11	Cunningham	Bill	USA	1857.3
12	Matt	Roland	Liechtenstein	1852.5
13	Erang	Peer	Germany	1850.2
14	Campbell	Colin M	Canada	1849.4
15	Peyvand-Linoux	Christophe	France	1828.7
16	Marsden	Gregory	Canada	1821.2
17	Wossels	Peter	Germany	1804.4
18	Birks	Ken	United Kingdom	1783.0
19	Fan	Min	China	1785.0



◀◀ **World Champ, Richard Verano, takes time out from preparing his Stiletto racer to talk to RCM&E.**
 ◀ **First WC outing for Ivan Cappuyn's (left) O/D Tsunami. Distinctive aircraft is Nelson powered.**



◀◀ **Stiletto by Chujo of Japan had several novel features, including in-flight adjustable pipe length and mixture controls.**
 ◀ **Paul Bardoe and Barrie Lever of GB wait to be ferried out to the pylon course. Paul suffered from an 'over enthusiastic' flagman - more later in our full pylon report.**

Flying sites

The Aerolympics were hosted at two different flying sites, both grass, with Aerobatics and Pylon Racing being contested at the full size airfield at Nötsch in the picturesque Gailtal valley, and helicopters being flown off a farmer's field at the village of St. Egyden, near the fashionable lakeside resort of Velden.

Facilities at Nötsch were well organised, but the grass runways raised a few eyebrows and must have caused a few concerns over the reliability of retracting undercarriages, particularly for the aerobatic models. A range of scree covered mountains provided a spectacular backdrop to the flying action, but did not seem to cause the pilots any problems, speaking volumes for their ability to concentrate on their models regardless of such imposing, but beautiful distractions. A collection of fir trees on the far side of the runway could not have helped either, creating an artificial horizon over which the aerobatic contestants had to fly, but yet again the flying discipline at this level overcame this potentially off putting local feature. Some pilots did, however, come close to skimming the tree tops, with dramatically low base-lines, most notably Chip Hyde, the defending F3A World Champion, who is a master of the art of relatively close in and tight aerobatic schedules. Pilots over at the pylon course were similarly dismissive of the surrounding trees and mountains. Indeed British team member, Barrie Lever, was all for them, favouring the dark background against which to follow these astonishingly fast aeroplanes.

A major drawback of this site was the limited parking facilities, which allowed just a single row of cars along

the length of the runway, with access via a one way dirt track. Pilots turning up for their slots were often faced with nowhere permanent to park near the flightlines, resulting in most having to unload their models just before their flights, and packing the whole lot away again almost immediately afterwards.

Compared to the Helicopter site, however, the airfield at Nötsch was luxurious. Even worse parking problems confronted the heli pilots, who were only allowed to bring their vehicles up the single track approach road just before their flights. All other access was by foot, with permanent parking provided at a nearby hotel. Although a healthy walk never did anyone any harm, the opportunity to view a wide range of models was sorely missed and the chances for broad discussions of techniques and ideas between the pilots must have been diminished as a result. A lack of models on the ground also severely reduces spectator appeal.

Facilities at the site were very basic, the basis of which was really just a farmers field, from which a crop had been harvested before the event, although a small grass square had been prepared for the actual models to fly from. A long length of carpet connected the 'ready' and 'start' boxes to the flying area, providing a relatively smooth path for the flyers to hover/walk along at the start of each flight. The judges were stationed on an area of wooden staging, as an insurance against any inclement weather. Luckily it remained dry throughout the event. Had it been the other way around, the whole site would have quickly become a mudbath. Austrians must have good faith in their weather! ●



◀ **Manfred Pick of Germany displays his all composite Dago Red. Has a Kevlar fuz, balsa/glass wings with carbon spar and a secret airfoil designed by Martin Heppeler.**

F3D RESULT			
PLACE	NAME	NATION	POINTS
1	Verano Richard	N	778.7
2	Phelar Ranjit	VH	902.1
3	Shadel Dave	N	817.7
4	Pick Manfred	D	824.8
5	Stakepugen Bruno	D	843.3
6	Mairee Miron	OK	854.2
7	Cappuyns Ivan	OO	876.4
8	de Charvoz Bruce	VH	897.1
9	Casura Victor	MB	897.1
10	Lentze Wim	OO	801.8
14	Bardoe Paul	GB	831.2
27	Raci Arbai	GB	1047.7
38	Board Paul	GB	1329.0



▲ **Top Brit,** Colin Bliss, reached the F3C flyoffs, coming 10th overall.

▲ **View of** helicopter flying site, showing carpeted starting area, hover lane and flying area.

► **Curtis Youngblood (USA)** pulled out all the stops with his 'cuddle box' style JR Tx to win the F3C World Championship. Flew an X-Cell 60 with NHP blades.

Weather watch

Pre-event publicity forecasted good flying weather for the Aerolympics, and generally this proved to be accurate. Conditions were very overcast for the first three days, but the clouds broke for the second half of the week, given some very pleasant, warm, sunny weather, particularly in the afternoons. Early morning fog and gloomy conditions did, however, hamper some rounds of the pylon and helicopter events, but both finished as planned.

Thankfully, the Aerolympics were unscathed by wind and rain, keeping calm and dry right up until the Saturday, when overnight rain looked to provide interesting conditions for the F3A Aerobatic flyoffs. However, true to form, the sun broke through during the morning for a dry, bright finish to the main competition events. ●



FINAL RESULTS - F3C

PLACE	NAME	NAT	TOTAL AFTER RD 3	FINAL RESULT
1	Youngblood Curtis	N	2000.00	2968.86
2	Sentse Kazuyuki	JA	1959.23	2958.23
3	Dobashi Yukimiro	JA	1856.71	2846.91
4	Graber Daniele	HB	1910.93	2846.20
5	Sawabe Seiji	JA	1857.72	2832.76
6	Mann Wayne	N	1846.88	2791.08
7	Gesser Heinz	HB	1787.22	2703.32
8	Ishikawa Shinzo	JA	1756.76	2668.31
9	Roesner Joerg	D	1750.26	2627.81
10	Bliss Colin	GB	1723.42	2518.51

TECH TABLE 2 - F3D

Nation	Name	Aircraft	Designer	Radio	Engine	Propeller	Stick Mode	Fuselage	Wings	Wingspan	Tail	Retract	Weight
Australia	Prelan Ranjit Murphy Barry De Chastel Bruce	Mustang P51 Mustang Bivota	Phelan Murphy De Chastel	JR Multiplex 3030 Futaba	Royal Phelan Rossi OS	Supercool Supercool 7,5x7.5 Carbon	1 1 1	Fibrefibre Glassfibre Fibreglass	Composite Foam/Carbon/Balsa Moulded Glass	1500mm 1407mm 1450mm	Balsa Balsa Fibreglass	Nil No No	2200g 2205g 2200g
Austria	Watschek Ernst	Mustang Silitec	Gary Kovar	Weber	Nelson	Own Design	2	Epoxy	Balsa	1330mm			
Belgium	Cappuyens Ivan Vants Edgar Lantier Wim	Tsurumi Tsurumi Tsurumi	Cappuyens Belg. Team Belg. Team	Graupner Futaba 1024 Graupner	Nelson Nelson APC/Carbon	Cappuyens own made APC/Carbon	2 4 2	Composite Composite	Plywood Foam/Plywood Plywood	1300mm 1350mm 1350mm	Foam/Plywood Foam/Plywood Plywood	Robert Robert Robert	2300g 2300g 2300g
Canada	Smith Edward Headley John McIntee Andrew	GR 7 Mustang Grove GR 7	G. Hoyer Grove	Futaba Futaba Futaba	Nelson Nelson Nelson	ED Smith Carbon Carbon	2 2 2	Fibre Glass Glass Fibreglass	Balsa/Foam Balsa/Foam Balsa/Foam	1525mm 1364mm 1511mm	Balsa/Foam Balsa/Foam Balsa	No No No	2300g 2300g 2300g
Czech Rep.	Malina Milos Vojan Zdenek Hovorka Frantisek	MICS R.J. Mustang Milat R.J. Mustang	Vojan Hovorka	JR JR Apex JR Apex	MVVS MVVS MVVS	Coem Hovorka Hovorka	2 2 1	Glass Glass Glass	Foam/Balsa/GFK Foam/Black/GFK Foam/Balsa/GFK	1350mm 1300mm 1170mm	Foam/Balsa/GFK Foam/Balsa/GFK Foam/Balsa/GFK	No No No	2200g 2250g 2250g
Germany	Lindemann Thom Pie Manfred Stuckeljugen Bruno	P51 Dago-Red P51 Dago-Red P51 Dago-Red	Team Dago-Red Team Dago-Red Team Dago-Red	Simpson Futaba Simpson	R.I. R.I. R.I.	S.S. S.S. S.S.	1 1 1	Aramid Aramid Aramid	Composite Composite Composite	1466mm 1466mm 1446mm	Composite Composite Composite	Yes Yes Yes	2280g 2280g 2210g
Great Britain	Bardoe Paul Board Paul Reed Aviat	Mics R.J. Silitec Mustang	Malina P. Board/K. Monon A. Piaz	Futaba 1024 Futaba Futaba	OPS OPS/Nelson OPS	BLM Carbon/Epoxy Carbon Fibre/Epoxy	1 1 1	Fibreglass Glass Fibre Fibre Glass	Foam clothed Foam/Glass Foam Glass	1260mm 1200mm 1260mm	Foam clothed Balsa Balsa	No No No	2250g 2205g 2205g
Italy	Garnassi Giorgio Razi Renzo Mazzoli Paolo	Folkerts 4 Folkerts Folkerts GR4	Cassou Cassou Cassou	Futaba Futaba FF2 Futaba	OPS OPS 40 Rossi	Own design Own design Own design	1 1 2	F/G Epoxy F/G Epoxy Epoxy-F/G	Ply-Sty-Epoxy Ply-Sty-Epoxy Ply-Sty-Epoxy	1320mm 1360mm 1360mm	Composite Composite Composite	No No No	2220g 2240g 2200g
Japan	Sao Yoshinori Sawada Kenzo Chujo Nobuyuki	Silitec Silitec Silitec Mustang	Jaro Bob Huber Hirashi-Nakamura	JR PCM 105 JR JR PCM 105	OS 40 PS OS 40 PS Nelson	Supercool Carbon Own design	1 1 1	Glass Glass Carbon	Foam Balsa Carbon	1400mm 1300mm 1580mm	Balsa Balsa Balsa	Supra Yes OK	2220g 2300g 2200g
Netherlands	v.d. Bosch Robert Merkemeijer Bert	Tsurumi Chamber maid	v.d. Bosch M. Wombacher	Graupner X347 Simpson SAM	Merkemeijer Merkemeijer pylon	Merkemeijer Merkemeijer	2 2	Glass/Carbon Glass	Foam/Plywood Foam/Plywood	1400mm 1380mm	Foam/Plywood Balsa	No No	2300g 2300g
Russia	Orlov Smolenshev Doroshenko	Mustang Mustang Mustang	Doroshenko-Orlov Smolenshev Doroshenko-Orlov	MC-16 PC-18 MC-16	Mat 6.5 Termik Mat 6.5	Carbon Carbon Carbon	2 2 2	Glass Plastic Glass	Plastic Plastic Plastic	1380mm 1380mm 1380mm	Balsa Balsa Balsa	No No No	2300g 2205g 2300g
Sweden	Bjorne Ragnarsson Hans-Olof Carlsson Larsson Ingvar	UR-6 Torq Silitec 100 Mustang	Own Own Malina	Futaba JR JR	Rossi Rosi Rosi	Own design Own design B.R.	2 2 2	Fibreglass Glass Fibreglass	Celplast Celplast Celplast	1350mm 1380mm 1350mm	Foam/Balsa Foam/Balsa Foam/Balsa	No No No	2350g 2300g 2400g
Switzerland	Cassut Victor Reclener	Folkerts SR 34 Folkerts SR 34	V. Cassut V. Cassut	Graupner JR Futaba	RJ Rowel Nelson	Own Design V. Cassut	2 2	Fibreglass Epoxy	Foam plywood Plywood	1440/1350mm 1340mm	Foam plywood Foam/Plywood	No No	2210g 2243g
South Africa	Dorae John Alberts Pierre Tollner Chris	Bivota Bivota Bivota	John Dorae Chris Tollner Chris Tollner	Futaba Futaba Futaba	Nelson/Rossi Nelson Nelson	Jolly Tolly Tolly	1 2 2	GRP Glassfibre Epoxy Glass	Booth covered Foam Foam Balsa Glass Foam Balsa	1300mm 1450mm 1480mm	Balsa/GFK Balsa/GFK Balsa/GFK	No No No	2300g 2300g 2300g
Ukraine	Gorban Igor	Mustang	Gorban	Attack 4	MDC 5.6, W-40 M-40	Carbon	2	Plastic	Plastic	1230mm			2300g
USA	Shadel Dave Verano Richard Bette Henry Jett Dab	Silitec Silitec Silitec Karsickar	Hoyer Hoyer Gary Hoyer Jerry Small	Futaba Futaba Futaba Sawwa/Airtronics	Nelson Nelson Nelson Jett 6.5	Carbon Carbon Carbon Jett	1 2 2 2	Fibre Glass Fibre Glass Fibre Glass Glass	Fibre Glass Composite Carbon/Glass Glass/Foam/Balsa	1450mm 1450mm 1370mm 1480mm	Composite Composite Composite Composite	No No No No	2205g 2300g 2298g 2200g



VM I F3A Nøtsch Østerrike 18. - 25. September 1993

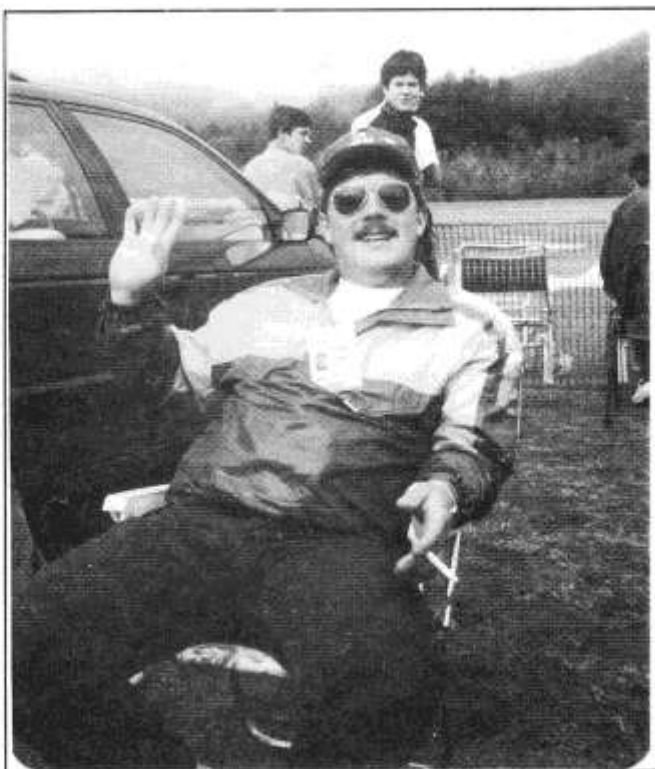
Tekst : May Elin Ringvold
Bilder : Ringvold, Fremming

Landslagdeltagerne i år ble 1. Kjell Tore Pettersen Fredrikstad NAK, 2. Ola Fremming Baronen NAK og 3. Jens Petter Ringvold Baronen NAK. Øyvind Moe var så heldig å bli ansatt som lagleder. May Elin Ringvold ville også være med, og ble dermed supporter og "hushjelp". Det var denne gjengen som en "gråkald" tirsdag formiddag (14 sept.) satte kursen mot Østerrike i Ringvolds gule "brødbil". Vi dro med Kronprins Harald (Oslo-Kiel), og var fremme i Kiel onsdag formiddag. Båtturen gikk greit, uten store bølger og urolige mager. De andre reisende var for det meste tyske pensjonister, så det ble ikke noe hæla i taket om kvelden. Men vi fortærte mye god mat, og enda mere god drikke. Kjell Tore og Øyvind spilte Black Jack, hvor Kjell Tore ble "rik", mens Øyvind ble heller fattig. Turen frem til vi var i Østerrike gikk passelig fort unna, bortsett fra 4 timers kjøring nord for Hamburg. Snakk om fri fart på autobanen. Torsdag kveld (16.sept) var vi fremme ved hotell Residenz Warmbad. Her hadde vi bestilt et 5 mannsrom. Rommet var koselig og passe stort, og i første etasje var det svømmebasseng og badstue som vi brukte flittig. Det tok oss ikke lang tid å finne et sted hvor man kunne få fylt opp magen med litt for. I nærheten av hotellet var det et lite koselig vertshus, med masse god mat og drikke. Innehaveren av dette stedet var en "merkelig skrue" som underhold gjestene med sang (forferdelig stemme) jodling og spill på forskjellige instrumenter. Dette stedet benyttet vi flere ganger, bortsett fra de kveldene vi var så trette at vi heller bestilte pizza på rommet. Dagene før den offisielle åpningen ble brukt til å observere selve flyarenaen,



Fra venstre : Jens P. Ringvold, May E. Ringvold og Øyvind Moe, for avgang fra Oslo

trene, se på flystilen til de andre gutta, handle i nærmeste by ved navn V e l d e n , b e s ø k e arenaen til helikoptergutt a, og for å se på pylon. For de som ikke vet det var dette også et VM for F3D og F3C. Pylonflyvning en var virkelig "hårete" å se på. Her lå hastigheten på ca. 300 km/t, og det brakte noe infernalsk. L ø r d a g kveld(18.sept) v a r d e t



Laglederen i velkent positur

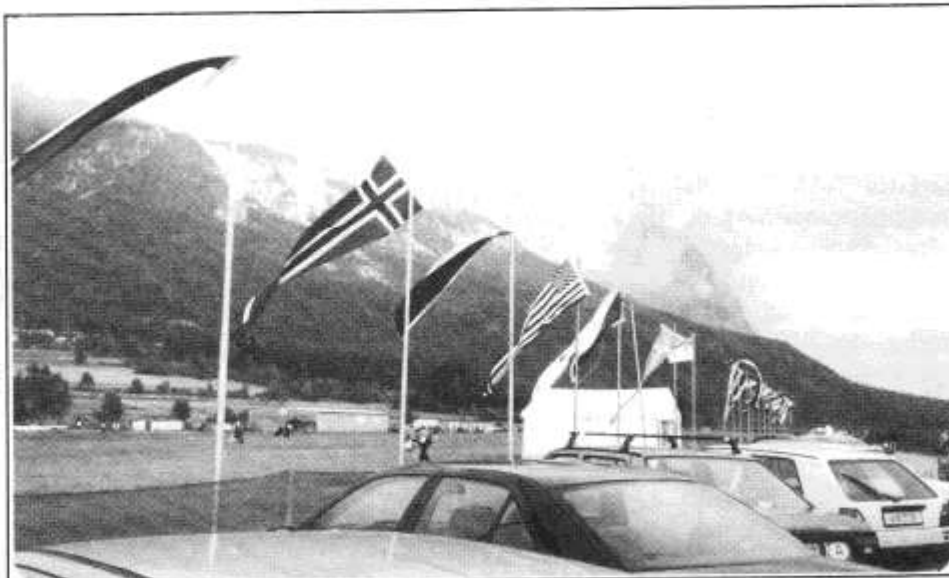
offisiell åpning. Her gikk alle nasjoner fra F3A, F3C og F3D sammen i tog

gjennom Veldens gater. Vi fikk servert hornmusikk og det ble holdt taler.

Videre fikk vi en båttur rundt Lake Wörthersee, med gratis middag og drikke, avsluttet med et fantastisk fyrverkeri. Her var det ikke spart på pengene. Tirsdag(21.sept) var første konkurransedag. Det ble fløyet en omgang for hver dag, fram til og med fredag. Lørdag fløy de 19 beste finale. Gjennom alle konkurransedagene måtte vi stå opp kl.7.00 om morgenen, da vi hadde 2,5 miles kjøretur til flyplassen i Nötsch im Gailtal. Alle radioer måtte være levert arrangørene mellom kl.9.00 og 9.30. Det var tilsammen 95 deltagere i F3A, fordelt på 36 nasjoner. Selve flyarenaen var delt opp i 2 flyfelt (arena A+B), hvorav deltagerne ble delt opp i to grupper. Her byttet man flyfelt annen hver dag. Så var konkurransen i gang. Jeg kunne merke visse nervøse tendenser blant det norske landslag, spesielt før hver deltager skulle fly. Det var Jens Petter som først skulle i "ilden", senere var det Ola sin tur, og på slutten av dagen fløy Kjell Tore. Jeg synes alle 3 fløy brukbart, kanskje ikke det beste de kan prestere, men absolutt bra. Jeg tror det er lett å bli litt misfornøyd, når man for se så mange andre som flyr bedre, og mye bedre enn en selv. Jeg vil bare få nevne at på trening før konkurransen, fikk vi se hvordan forrige VM mester Chip Hyde fløy. Dette var en flystil veldig forskjellig fra den stilen som blir brukt i Norge. Han fløy meget lavt og nærme, ikke altfor store manøvrer og meget presist. Vi tenkte, hvis det er slik man må fly for å hevde seg, er det norske landslag "langt ut på viddene". Det var da godt å se under selve konkurransen at andre som nok ville bli blant de beste, f.eks. W.Matt, hadde en helt annen flystil (mer lik vår egen stil). Været var nydelig disse dagene frem til lørdag (25 sept). Enkelte av dagene ble det

noe forsinket start p.g.a tåke om morgenen, men når solen først kom

"fløt" fint, selv med så mange deltagere. Det var satt opp et stort telt



Det Norske flagget vaier som vanlig friskt i den lette vinden



Vi venter spent på de siste resultatene fra dagens flyvning.

Fv : Ø. Moe, K.T. Pettersen, M.E. Ringvold & J.P. Ringvold

frem, ble det godt og varmt. Resten av konkurransen gikk greit for de norske gutta. Alle 3 slapp unna motortrøbbel og andre problemer. Det som mangler er presisjon og jevnhet. De hjelper ikke å få til en knalltur i en omgang, man må få til dette i alle omgangene. Men nå vet de hva de må trene på. Selve arrangementet synes jeg var meget godt lagt opp. Konkurransen

på stedet hvor man kunne meske seg med alt fra smørbrød, til full middag. Her fikk man brus, og sterkere saker hvis man ønsket det. Det var satt opp diverse salgskoder med suvenirer. Det var i det hele tatt ikke vanskelig å få brukt penger her for billig var det ikke. Det eneste som var dumt, var at publikum fikk parkere på samme sted som deltagerne, slik at det til tider var

vanskelig å få parkert. Lørdagen var det som sagt finale. Været var fra morgenen av overskyet, men et stykke utpå dagen kom et forrykende regnvær. Finalen ble allikevel gjennomført, og det gikk heldigvis bra uten uhell. Om kvelden var det banket. Med så mange deltagere fra alle klasser (det har aldri hvert så mange deltagere i et VM tidligere), ble banketten holdt i det store teltet jeg nevnte tidligere. Med det regnskylllet som var både før og under banketten, ble hele området forvandlet til et gjørmehull. Inni teltet var det satt opp langbord. Her ble holdt taler, og det var premieutdeling til de beste i hver klasse. Det ble servert tre retters middag, hvor man måtte stå i lang kø for å få hovedretten. Etterhvert som kvelden skred frem, ble fuktigheten i teltet temmelig høy, slik at det begynte å dryppe vann fra taket. Så det sier seg selv at banketten ikke ble så vellykket som resten av arrangementet. Det var en sølete og trett gjeng som tilbake på hotellet stupte på hode i seng. Neste dag skulle vi vende nesa hjemover igjen, og måtte stå opp tidlig, for vi hadde som mål å rekke Kielfergen som skulle gå fra Kiel kl.16.30 mandag. Dette klarte vi med god margin, slik at vi fikk oss en bytur i Kiel før avreise. Båtturen gikk greit uten store bølger, og det var fem fornøyde personer som entret kjære Norge tirsdags formiddag (28.sept) fulle av inntrykk, og forhåpentligvis full av inspirasjon til å gjøre det enda bedre neste sesong. Jeg vil avslutte dette tilbakeblikk med å si "jeg gleder meg til neste år folkens, da skal jeg dømme dere sønder og sammen, ha,ha,ha." Vi sees.



Quique Somenzini's Desafio S, hvis trykken er snill mot bildet, kan eksosåpningen i vingetippen synes. Motor : YS 120 AC



Novaene til Colin Campbell fra Canada.



Giichi Naruke fra Japan stilte med denne strøkne modellen.

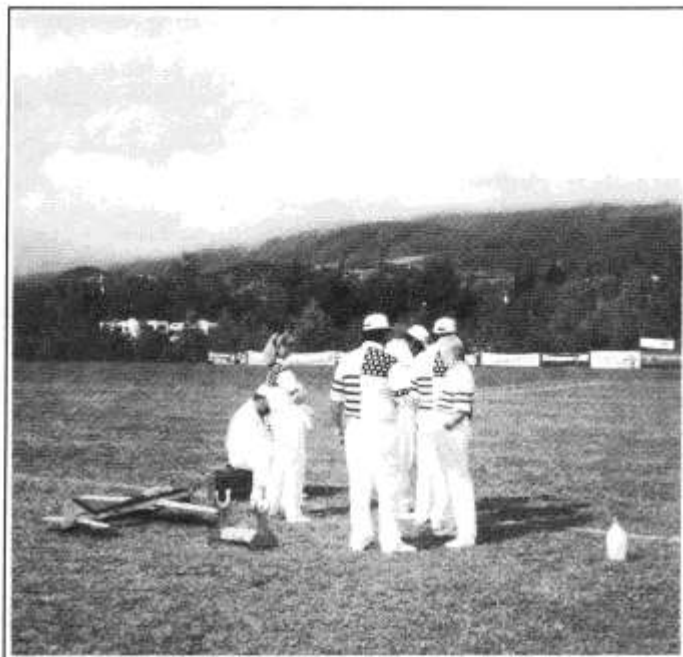
Resultater

1 : Hanno Prettner	AUT	2970 / 2000
2 : Chip Hyde	USA	2992 / 1972
3 : Wolfgang Matt	LIE	2973 / 1968
4 : Quique Somenzini	ARG	2886 / 1920
5 : Hajime Hatta	JAP	2904 / 1901
6 : Giichi Naruke	JAP	2882 / 1900
7 : David von Linsowe	USA	2858 / 1899
8 : Yoichiro Akiba	JAP	2880 / 1894
9 : Tony Frackowiak	USA	2860 / 1888
10 : Ivan Kristensen	CAN	2769 / 1860
11 : Bill Cunningham	USA	2758 / 1857
12 : Roland Matt	LIE	2777 / 1853
13 : Peter Erang	GER	2766 / 1850
14 : Colin M. Campbell	CAN	2791 / 1849
15 : C. Paysant-Leroux	FRA	2725 / 1829
16 : Gregory Marsden	CAN	2768 / 1821
17 : Peter Wessels	GER	2714 / 1804
18 : Ken Binks	GBR	2699 / 1803
19 : Min Fan	CHI	2752 / 1787

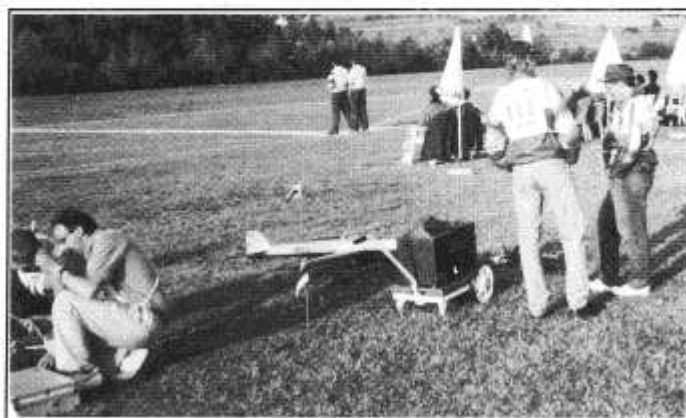
32 : Robert Sundström	SWE	2537
40 : Anders Johansson	SWE	2494
41 : Kjell T. Pettersen	NOR	2491
46 : Ola Fremming	NOR	2461
48 : Tero Vallas	FIN	2439
51 : Allan Sörensen	DEN	2406
53 : Bernt Olsson	SWE	2402
60 : Jens P. Ringvold	NOR	2330
65 : Janne Nyssönen	FIN	2299
66 : Esa Eirola	FIN	2297
68 : Finn Lerager	DEN	2293
83 : Erik Toft	DEN	1997

Antall totalt : 95

Antall i finale : 19



Det patriotiske USA laget er samlet for å piffe opp Bill Cunningham før en av hans finaleomganger



Kjell Tore diskuterer strategi med laglederen (??)

Lagrekkefølge

1 : Japan	8667
2 : USA	8476
3 : Canada	8327
4 : Liechtenstein	8307
5 : Østerrike	8120
6 : Tyskland	8085
7 : Kina	8043
8 : Frankrike	7917
9 : Storbritannia	7731
10 : Australia	7635
15 : Sverige	7434
17 : Norge	7282
19 : Finland	7035
22 : Danmark	6695

Antall lag : 35



Peter Wessels fra Tyskland stilte med to slike fullstendig glassfiberstøpte modeller.

3. Aerolympics

Worldchampionships F3A 1993

Nötsch - Carinthia - Austria

1993-09-25

F3A TEAM RESULTS										
Rank	Reg. Nr.	Nation	Teammanager Name	1st Pilot	Points 1st Pilot	2nd Pilot	Points 2nd Pilot	3rd Pilot	Points 3rd Pilot	Total Team
1	180	Japan	Iloka	Naruke	2881,6	Hatta	2904,6	Akiba	2880,4	8666,5
2	265	USA	Stillman	von Linsowe	2858,1	Cunningham	2757,9	Frackowiak	2859,9	8475,9
3	125	Canada	Marsden Ch.	Marsden G.	2767,6	Campbell	2790,8	Kristensen	2768,9	8327,3
4	190	Liechtenstein	Beck	Matt N.	2557,8	Matt W.	2972,6	Matt R.	2777,0	8307,4
5	110	Austria	Zehethofer	Prettner	2970,3	Kronlachner	2629,8	Dworak	2520,0	8120,1
6	160	Germany	Uhlig J.	Erang	2766,3	Wessels	2713,7	Uhlig P.	2605,4	8085,3
7	130	China	Liu W.	Fan	2752,0	Liu A.	2651,0	Ma	2639,8	8042,7
8	155	France	Laffite	Paysant-Leroux	2724,8	Lombard	2640,7	Bossard	2551,9	7917,4
9	165	United Kingdom	Brotherston	Binks	2698,9	Hirst	2546,0	Tappin	2486,0	7730,9
10	105	Australia	Payne	Goldsmith	2572,8	McFarlane	2530,4	Coram	2532,1	7635,2
11	100	Argentina	Somenzini E.	Somenzini Q.	2886,1	Colombo	2563,3	Morales	2150,0	7599,4
12	240	Switzerland	Giezendanner	Giezendanner	2290,6	Emmenegger	2607,3	Schaden	2668,1	7566,0
13	115	Belgium	DeWinter J.	Rombauts	2473,4	DeWinter T.	2500,9	Zardini	2489,5	7463,9
14	175	Italy	Curti	Benincasa	2515,9	Giglioli	2459,6	Silvestri	2483,2	7458,7
15	235	Sweden	Sundström L.	Sundström R.	2537,4	Johansson	2494,1	Olsson	2402,3	7433,8
16	245	South Africa	Pretorius	Stockwell	2423,1	Marais	2413,4	Casson	2504,7	7341,2
17	210	Norway	Moe	Ringvold	2330,1	Pettersen	2490,6	Fremming	2461,3	7282,0
18	185	Korea	Yong	Sung Nam	2532,6	Soon Young	2368,6	Seon Sang	2331,7	7232,8
19	150	Finland	Vallias V.	Vallias T.	2438,8	Nyyssönen	2298,7	Eirola	2297,0	7034,5
20	200	Netherlands	van Loon	Volkers	2328,8	van Vliet	2398,3	v.d.Toorren	2092,6	6819,6
21	140	Czech Republik	Volf V.	Volf V. Jun.	2346,1	Chvatal	2299,9	Volejnik	2161,4	6807,3
22	145	Denmark	Kristensen	Sørensen	2405,9	Lerager	2292,5	Toft	1996,5	6694,9
23	255	Thailand	Tubthong B.	Tubthong C.	2352,2	Techavipark	1954,3	Vongprasert	2307,3	6613,8
24	170	Ireland	Constant	Barrett	2232,5	Carolan	1888,5	Keane	2347,1	6468,0
25	230	Spain	Rombaut	Bru	2041,1	Anguera	2113,9	Rombaut	2228,6	6383,6
26	220	Russia	Ivanov	Mandrika	2113,7	Nefedov	1917,1	Kozlovski	1752,1	5782,9
27	225	Singapore	Mok	Yong	1840,7	Chan	2233,2	Mok	1479,7	5553,6
28	250	Taiwan	Lai	Wang	1490,7	Chen	1616,9	Lin	2258,0	5365,6
29	215	Portugal	Melo	Machado	1470,3	Ferreira	1549,8	Seabra	1889,8	4909,9
30	195	Luxembourg	Richartz	Richartz	2121,4	Weber	2322,7			4444,1
31	120	Brazil	Romano V.	Romano P.	1014,7	Hueb	2084,9			3099,6
32	205	New Zealand	Craighead N.	Craighead C.	2404,5					2404,5
33	270	Chile	Graham	Rodriguez	2295,6					2295,6
34	260	Ukraine	Makarov	Makarov	2131,9					2131,9

AEROLYMPICS 1993

BEWERB F3A

24.9.1993 21:08

Nation	Teilnehmer	Aircraft	Designer	Radio	Engine	Carburetor	Muffler	Propeller	Glow Plug	Fuel
Argentina	Somercini Quique Colombo Marcelo Morales Sergio									
Australia	Goldsmith Peter McFarlane David Coram Stephen									
Austria	Pretfner Ing. Hanno Kronlachner Heinz Dworak Ing. Manfred	Mystic 60 Endesvor Terminator	Hanno Pretfner Kronlachner Dworak	Graupner mc 20 Robbe FC 28 Futaba	OS Hanno Special Rm OS Webra Comp. OS Max	Webra Dynamix OS Max	OS Selfmade OS	Maro 13x12 Maro Special Maro	OS No. 8 Enya 3 OS	Riga Champion 10 % Roga Sepcial Self made
Belgium	Rombauts Kurt De Winter Tom Zardini Jean-Pierre	Saphir Jester Europa 120	W. Matt Tom de Winter ZN Ling	Graupner MC 20 Graupner MC 20 Futaba 1024 Z	YS-120-AC YS-120-AC YS-120-AC	YS YS YS	Hattori Hattori Hattori	APC 14,5x14 APC 14,5x14,5 APC 14,5x14,5	OS F OS F OS F	20 % Oil 25 % Nitro 20 % Oil 20 % Nitro 20 % Oil 20 % Nitro
Brazil	Romano Plinio A. Huel Carlos H.	Dasafu II Dasafu	Somercini Somercini	JR Futaba	YS 120 AC YS-120-FS	YS YS	Bolly Somercini Hattori	Bolly 14,5x14,5 Bolly 14x13,5	OS-F OS-F	Castor 25 % N 25 % N
Canada	Marsden Gregory Campbell Colin M. Kristensen Ivan	Legend 5 Nova Summit IV	Greg Marsden Colin Campbell I. Kristensen	Futaba 92 AP Futaba 92AP Futaba 92 AP	YS-120AC YS-120-AC YS-120	YS YS YS	Hattori Hattori Hattori	APC 15x12 APC 15x12 C2 APC	OS-F Type F KB 1L	Cool Power Morgan Cool Power Cool Power
Chile	Rodriguez Mario	Typhoon	Ron Chidgey	Futaba 7 UAPS	YS 120 AC	YS	AAP-500	APC 14x14	OS F	Cool Power 25 %
China	Fan Min Liu Aiqiang Ma Jianxing									
Czech Rep.	Volf Vilém jun. Chvátal Vladimír Volejník Milan	Saphir Rubin Symphony	W. Matt W. Matt Milan Volejník	Graupner mc 18 Graupner mc 18 Graupner mc 18	MVVS OS 81 RF ABC Hanno OS 81	Webra Dynamix OS 7 OS	Hattori Hattori ROT Hattori	APC (Copy) 12x11 ProflProp 12,5x11 APC	OS Nr. 8 MVVS, OS 8 MVVS	10 % Nitro 10 % Nitro Graupner
Denmark	Sørensen Allan Lerager Finn Toft Erik	Charmer Matador Saphir	D. Altenkirch Peter Erang W. Matt	Futaba FC 28 Robbe CM-Rex Multiplex 3030	OS 81 ABC-P Webra 81 ABCD Webra Comp	OS Dynamix Webra Dynamix	Hattori Hattori (LS) Hattori 650	APC 12x11 APC 12x10 Dyna Prop 12x10	OS Nr. 8 Rossi 5 Rossi 4	85/15 % - 10 % Nitro Molyn 150K 15%/4% 80/15/5 %
Finland	Vallias Tero Nyssönen Janne Eirola Esa	Domino Topaz C Saphir E	T. Vallias Peter Wessels W. Matt Iowen	Futaba FB-9VAP Graupner mc 20 Graupner mc 20	YS-F 120 AC YS-120 AC YS 81 R	YS YS YS	Hattori Hattori HAFU	ABC 14x13 APC 12,5x11,5	OS F OS F OPS 300	Own mix Own mix Klotz 6,5 % Oil, 28 %
France	Paysant-Leroux C. Lombard Laurent Bossard Christian	Extra Manchot Slide Zephyr	Paysant-Leroux Own design Own design	Futaba 1024 Z Futaba 1024 Graupner mc 20	YS 120 AC YS 120 YS 120	YS YS YS	Hattori Hattori Hattori	APC 14,4x13 APC 14x13,5 APC 14,4 x 13	OS F OS SF OS F	MG Synth Glow 25 % Synth Glo Synthetic
Germany	Erang Peter Wessels Peter Uhlig Peter	Matador 3 Genesis Ecolasy	Self Self Scheffele/Uhlig	Futaba FC 28 Graupner MC-20 Graupner/JR MC 20	Webra LS Comp. OS Hanno Webra 81 LS Comp.	Dynamics OS Webra Dynamix	Hattori Hattori Hattori	Maro 12,5x10% Maro 12,5x10% Ulsamer 12,5x11%	Enya 3 OS Nr. 8 Novarossi 6	Synthin 10 % Synth-Glow Comp. Synth Glow Comp
Great Britain	Binks Ken Hirst Richard Tappin Jon	Slyst 4C Silhouette Summit 3 (mod)	Ken Binks I. Maybury/R. Hirst I. Kristensen/J Tap	Futaba 92AP Futaba PCM 1024 ZA JR PCM 106	YS 120 AC OS Hanno OS Hanno	YS OS OS	Hattori OS Hattori	14x13 APC 12,5x11 12x12	OS FS Enya No. 4 OS No. 8	20 % Castor 20 % Nitro 10 % Oil, 20 % Nitro Synthetic 20 % Nitro

AEROLYMPICS 1993

BEWERB F3A

24.9.1993 21:08

Nation	Teilnehmer	Aircraft	Designer	Radio	Engine	Carburetor	Muffler	Propeller	Glow Plug	Fuel	
Ireland	Barnett Noel Carolan Brian Keane Ray										
Italy	Benincasa Marco Giglioli Massimo Silvestri Sebastiano										
Japan	Naruke Gichi Hetta Hajime Akiba Yoichiro	Aurum-A Explorer 5 Wild Beat	Naruke Hatta Own design	Futaba 1024 ZA JR PCM 10 S FP 92A	YS-F 120 OS FS 120 SP YS 120 AC	YS OS YS	Hattori Hattori Hattori	APC 14x14N APC APC 15x12	OS-F OS OS F	MG 700 M MG 700	
Korea	Sung Nam Kim Soon Young Cho Seon Sang Yoo										
Liechtenstein	Matt Norbert Matt Wolfgang Matt Roland	Saphir II Rubin Rubin	W. Matt W. Matt W. Matt	Futaba FC28/PCM102 Futaba FC28/PCM102 Futaba FC28/PCM102	YS-120-AC YS-120-AC YS-120-AC	YS YS YS	Hattori Hattori/Bolly Hattori	APC/Fuchs 14x13,5 APC/Fuchs 14x14 APC/Fuchs 14x14	OS-F OS-F OS-F	HOPE/Carbutin HOPE/Carbutin HOPE/Carbutin	
Luxembourg	Richardt Luc Weber Marc	Europa Husky	ZN-Line Own design	Graupner mc 20 Graupner mc 20	YS 120 AC OS 81 RF	YS OS	Hattori Hattori	APC 13,5x14 APC 12x12	Enya 3 Rossi 7	Titan Titan	
Netherlands	Volkers Maarten W. van Vliet Jan v.d. Tooren Dennis	Supra Fly Pacific Bird New-Wave	H. Pretfner Jan van Vliet D. v.d. Tooren	Graupner mc 20 Futaba Futaba	OS 81 RF OS Hanno Keller-Pro 736/8	6-P OS Standard	OS/Hattori OS	APC 12x12 Asano 12,5x12,5 11x16	Enya 6 Enya 3	Titan S 12 15 % Nitro 18 % Oil	
New Zealand	Craighead Ross										
Norway	Ringvold Jens P. Pettersen Kjell Tore Fremming Ola	Lotus Minus Amethyst Spiga SV	J.-P. Ringvold Pettersen/W. Matt Ola Fremming	Graupner mc 18 Multiplex Graupner mc 20	OS 81 Hanno + AAC YS 120 AC OS 81 Hanno + AAC	OS OS OS	Hattori 650 Hattori Bolly EQ-60	APC 12,5x11 APC 14x13,5 APC 12,5x11,5	Rossi R5 OS-F Rossi R6	Model Technichs Sup 60/20/20 Model Technichs Sup	
Portugal	Machado Jorge Ferreira Rui Seabra Carlos										
Russia	Mandrika Victor Nefedov Vyacheslav Kozlovski Vladimir										
Singapore	Yong Teck Sin Chan Tze Law Mok Chek Koon	MK Beetle Summit III Firefly		Ivan Kristensen Mok Chek Koon	Futaba 92A Futaba 9 VAP Futaba 92A	OS 81 Hanno YS 81 FR Hanno Special	OS 6 P YS OS 6 P	Hattori Pipe Bolly EQ62 Carbon OS Tune Pipe	APC 12,5x11 APC 12x11 APC 12,5x11	OS No. 8 Enya 4 OS No. 8	Cool Power 15 % Byron 15 %Synth. Cool Power
Spain	Bru Luis Anguera Jose Rombaut Cristobal	Fivol Fivol II Fivol	J. Anguera Jose Anguera J. Anguera	Sanwa PCM 7 Graupner mc 20 Graupner MC 18	OS 81 RF Hanno OS 81 Hanno OS 81 RF Hanno	OS OS OS	OS OS OS	APC 12x12 Maro 12,5x10,5 APC 12x12	OS No. 8 OS 8 OS Nr. 8	ASP 15 % Personal Personal 15 %	
Sweden	Sundström Robert Johansson Anders Olsson Bent	Conquest 120 Nova Primera Saphir II	D. Patrick Johansson/Sares W. Matt	Graupner MC 20 Futaba FC 28 Graupner MC 20	YS 120 AC Webra 81 ABCD Com YS 120 AC	Dynamix	Hattori 675 Robbe GK AAP	APC 14x13,5 APC 12,5x11,5 APC 14x13,5	OS F Rossi 5 OS F	18% AeroSynth 20 % N Roltan S 20 18% AeroSynth 20 % N	

BEWERB F3A

24.9.1993 21:08

Nation	Teilnehmer	Aircraft	Designer	Radio	Engine	Carburator	Muffler	Propeller	Glow Plug	Fuel
Switzerland	Emmenegger Hans	Saphir II	W. Matt	Futaba FC 28	YS 120 AC	YS	Hattori	APC 13,5x14	OS F	Hope Synth
	Schaden Bernhard	Artemis	Schaden	Futaba	Yamada	YS	Hattori	14x13	OS F	
	Giezendanner Emil	Cadenza	Giezendanner	Futaba 1024 ZA	YS 120 AC	YS	Hattori	APC 13,5x14	OS F	Own
South-Africa	Stockwell André	Eureka II	Marais/Stockwell	Futaba PCM 1024 FF7 OS .61 RF ABC Hann	#86	Hanno	Hattori	APC 12x11	Rossi 6	5 %M 12 % MSSR 15
	Marais Pierre	Eureka II	Pierre Marais	Futaba FF7/PCM 1024 OS .61 RF ABC LS	OS 6P	Hattori	Hattori	APC 12,5x11	Rossi 6	12 / MSSR, 6 %M, 12
	Casson Greg	Dimension	Greg Casson	Multiplex 3030	OS FS-120-S SP	OS	EX OS	APC 13,5x13,5	OS FS	18 % M 20 % Nitro
Chinese	Wang An Pan	Flash		JR PCM 10 S	Magnum Pro 61	Magnum	Magnum	APC 13x9	Magnum 180	Cool Power
Taipei	Lin Chung Jen	Saphir	Matt	Futaba	YS 120	YS	Hattori	APC 15x11	OS F	Cool Power
	Chen Cheng Feng	Desire		JR PCM 10 S	YS 120	YS	YS	APC 13,5x14	OS 5	Cool Power
Thailand	Tubthong Chalphan	Jekkie	Chip Hyde	JR 10S	OS 120	OS 120	Hattori	APC	OS	Cool Power
	Techaripark Praphon	Supra Jore	Own design	Futaba	YS 120	YS 120	Hattori	APC	OS	Cool Power
	Vongprasert Prathug	Silent	Naruke	JR 10S	OS	OS	Hattori	APC	OS	Cool Power
Ukraine	Makarov Valery									
USA	von Linsowe David									
	Cunningham Bill									
	Frackowiak Anthony									
	Hyde Chip									

Federation Aeronautique International

Aero Club Austria

3. Aerolympics

Worldchampionships F3A 1993

Nötsch - Carinthia - Austria

1993-09-25

F3A FINAL RESULTS													
Rank	Reg. Nr.	Surname	Givenname	Nation	1st Round	2nd Round	3rd Round	4th Round	Total Round 1 to 4	Qualification Relative	Final 1	Final 2	Total
1	111	Pretner	Hanno	Austria	984,6	985,7	1000,0	979,6	2970,3	992,8	1000,0	1000,0	2000,0
2	269	Hyde	Chip	USA	982,0	1000,0	997,5	994,2	2991,7	1000,0	971,6	969,5	1971,6
3	192	Matt	Wolfgang	Liechtenstein	1000,0	972,6	969,0	1000,0	2972,6	993,6	974,5	972,2	1968,1
4	101	Somenzini	Quique	Argentina	957,7	896,8	973,3	955,0	2886,1	964,7	952,3	955,4	1920,1
5	182	Helka	Hajime	Japan	998,4	963,0	902,0	942,2	2904,6	970,9	914,8	930,3	1901,2
6	181	Neruke	Giichi	Japan	981,4	893,2	970,2	929,9	2881,6	963,2	912,1	937,2	1900,4
7	268	von Linsowe	David	USA	964,1	926,0	965,3	928,8	2881,6	955,4	35,5	943,3	1898,6
8	183	Akiba-	Yoichiro	Japan	994,2	926,6	949,8	936,4	2880,4	962,8	838,6	931,2	1894,0
9	268	Frackowiak	Anthony	USA	980,1	935,6	944,2	914,2	2859,9	955,9	882,1	932,1	1888,0
10	128	Kristensen	Ivan	Canada	899,3	889,0	936,8	932,9	2768,9	925,5	906,5	934,1	1859,6
11	267	Cunningham	Bill	USA	916,6	921,2	920,0	913,0	2757,9	921,8	919,6	935,4	1867,3
12	193	Matt	Roland	Liechtenstein	919,8	918,9	923,7	933,5	2777,0	928,2	903,4	924,2	1852,5
13	161	Erang	Peter	Germany	934,6	928,4	903,3	896,7	2766,3	924,7	886,8	925,6	1860,2
14	127	Campbell	Colin M.	Canada	927,5	890,2	928,1	935,2	2790,8	932,9	897,9	916,6	1849,4
15	156	Poyant-Leroux	Christophe	France	913,4	862,2	938,6	872,7	2724,8	910,8	900,3	917,9	1828,7
16	126	Marsden	Gregory	Canada	959,6	883,7	924,4	879,2	2767,6	925,1	896,1	435,2	1821,2
17	162	Wessels	Peter	Germany	880,1	930,8	900,8	882,1	2713,7	907,1	869,7	897,3	1804,4
18	166	Binks	Ken	United Kingdom	874,9	903,3	898,3	897,3	2698,9	902,1	859,5	900,9	1803,0
19	131	Fan	Min	China	921,1	915,9	915,1	872,7	2752,0	919,9	853,5	867,3	1787,2

3. Aerolympics

Worldchampionships F3A 1993

Nötsch - Carinthia - Austria

1993-09-25

F3A SINGLE RESULTS									
Rank	Reg. Nr.	Surname	Givenname	Nation	1st Round	2nd Round	3rd Round	4th Round	Total Round 1 to 4
20	243	Scheden	Bernhard	Switzerland	899.9	855.6	888.4	879.7	2668.1
21	132	Lie	Aiqiang	China	905.1	846.7	888.4	857.6	2651.0
22	157	Lombard	Laurent	France	877.5	842.5	903.9	859.3	2640.7
23	133	Ma	Jianqing	China	862.1	813.2	879.1	898.4	2639.6
24	112	Kronlachner	Heinz	Austria	910.2	856.2	854.9	863.4	2629.8
25	242	Emmenegger	Hans	Switzerland	877.5	847.3	862.4	867.5	2607.3
26	163	Uhlig	Peter	Germany	887.7	880.1	837.6	829.5	2605.4
27	106	Goldsmith	Peter	Australia	853.1	876.5	843.1	831.9	2572.8
28	102	Colombo	Mercelo	Argentina	874.3	775.7	863.0	826.0	2563.3
29	191	Matt	Norbert	Liechtenstein	814.0	842.5	853.7	861.6	2557.8
30	158	Bossard	Christian	France	862.1	831.1	858.6	781.1	2551.9
31	167	Hirst	Richard	United Kingdom	808.9	847.9	859.3	838.9	2546.0
32	236	Sundström	Robert	Sweden	883.9	824.6	828.9	824.3	2537.4
33	186	Sung Nam	Kim	Korea	850.5	845.5	832.0	836.5	2532.6
34	108	Coram	Stephen	Australia	869.8	824.6	822.1	837.7	2532.1
35	107	McFarlane	David	Australia	861.4	826.4	842.5	817.9	2530.4
36	113	Dworak	Manfred	Austria	829.4	842.5	848.1	827.2	2520.0
37	176	Benincasa	Marco	Italy	839.0	821.6	834.5	842.4	2515.9
38	248	Casson	Greg	South Africa	848.6	804.3	851.8	792.8	2504.7
39	117	DeWinter	Tom	Belgium	840.9	826.4	820.2	833.6	2500.9
40	237	Johansson	Anders	Sweden	818.5	821.0	812.2	854.6	2494.1
41	212	Pettersen	Kjell Tore	Norway	818.5	828.2	828.3	834.2	2490.6
42	118	Zardini	Jean-Pierre	Belgium	895.4	775.7	747.1	818.4	2489.5
43	168	Tappin	Joan	United Kingdom	862.7	788.8	806.6	816.7	2486.0
44	178	Silvestri	Sebastiano	Italy	837.1	797.7	817.7	828.4	2483.2
45	116	Rombouts	Kurt	Belgium	808.9	858.6	806.0	781.1	2473.4
46	213	Framming	Ola	Norway	806.9	811.5	788.6	843.0	2461.3
47	177	Giglioli	Massimo	Italy	110.3	788.8	841.9	829.0	2459.6
48	151	Vallas	Tero	Finland	812.7	827.0	799.1	793.3	2438.8
49	246	Stocroell	Andre	South Africa	871.1	773.3	690.0	778.8	2423.1
50	247	Merais	Pierre	South Africa	819.1	784.6	716.7	809.7	2413.4
51	146	Sörensen	Allan	Denmark	806.9	785.2	722.9	813.8	2405.9
52	206	Craighead	Ross	New Zealand	777.4	768.5	831.4	795.7	2404.5
53	238	Olsson	Bengt	Sweden	764.0	788.8	809.1	804.4	2402.3
54	202	van Vliet	Jan	Netherlands	783.8	797.1	764.4	817.3	2398.3
55	187	Soon Young	Cho	Korea	809.5	781.0	778.1	733.8	2368.6
56	256	Tubthong	Chaiwat	Thailand	765.9	773.9	807.2	771.2	2352.2
57	173	Keane	Ray	Ireland	758.8	812.1	776.2	756.0	2347.1
58	141	Volf	Vilem jun.	Czech Republic	778.7	791.2	776.2	758.3	2346.1
59	188	Seon Sang	Yoo	Korea	771.6	735.7	783.0	777.0	2331.7
60	211	Ringvold	Jens P.	Norway	785.8	760.1	763.8	780.5	2330.1
61	201	Volkers	Maarten W.	Netherlands	775.5	804.3	744.0	749.0	2328.8
62	197	Weber	Marc	Luxembourg	772.9	775.7	678.9	774.1	2322.7
63	258	Vongprasert	Pruthug	Thailand	753.0	778.2	765.7	762.4	2307.3
64	142	Chvatal	Vladimir	Czech Republic	762.7	769.7	767.5	754.8	2299.9

3. Aerolympics

Worldchampionships F3A 1993

Nötsch - Carinthia - Austria

1993-09-25

F3A SINGLE RESULTS									
Rank	Reg. Nr.	Surname	Givenname	Nation	1st Round	2nd Round	3rd Round	4th Round	Total Round 1 to 4
65	152	Nyysönen	Janne	Finland	773,6	755,4	765,0	760,1	2296,7
66	153	Elrola	Esa	Finland	780,0	746,4	646,0	770,6	2297,0
67	271	Rodriguez	Mario	Chile	0,0	761,3	762,0	782,3	2295,6
68	147	Larager	Finn	Denmark	737,7	768,5	648,5	786,3	2292,5
69	241	Giezendanner	Emil	Switzerland	752,4	727,9	739,0	799,2	2290,6
70	253	Lin	Johnson	Taiwan	775,5	757,2	725,4	685,3	2258,0
71	227	Chan	Tze Law	Singapore	738,3	612,2	727,8	767,1	2233,2
72	171	Bonnet	Noel	Ireland	769,1	738,7	724,7	650,9	2232,5
73	233	Rombaut	Cristobal	Spain	755,6	761,3	666,5	711,6	2228,6
74	143	Volejnik	Milan	Czech Republic	604,9	523,9	783,0	773,5	2161,4
75	103	Morales	Sergio	Argentina	676,1	699,3	658,4	774,7	2150,0
76	261	Makarov	Valery	Ukraine	692,1	724,9	714,8	26,3	2131,9
77	196	Richartz	Luc	Luxembourg	665,8	693,9	713,6	714,0	2121,4
78	232	Anguera	Jose	Spain	715,8	674,2	653,4	723,9	2113,9
79	221	Mendrika	Victor	Russia	701,7	695,1	665,8	716,9	2113,7
80	203	v.d.Toornen	Dennis	Netherlands	666,5	699,3	706,8	686,5	2092,6
81	122	Hueb	Carlos H.	Brazil	638,9	699,3	675,8	709,9	2084,9
82	231	Bru	Luis	Spain	721,6	654,5	615,0	664,9	2041,1
83	148	Toft	Erik	Denmark	730,0	17,9	616,2	650,3	1996,5
84	257	Techevipark	Prappon	Thailand	736,4	675,4	542,5	527,1	1954,3
85	222	Netedov	Vyacheslav	Russia	633,1	649,8	634,2	0,0	1917,1
86	218	Sesbra	Carlos	Portugal	618,6	634,2	637,9	617,6	1889,8
87	172	Carolan	Brian	Ireland	601,0	631,3	507,7	656,2	1888,5
88	226	Yong	Teck Sin	Singapore	617,7	619,9	504,0	603,0	1840,7
89	223	Kozlovski	Vladimir	Russia	581,1	562,6	549,9	608,3	1752,1
90	252	Chen	Cheng Feng	Taiwan	418,9	35,8	602,6	595,4	1616,9
91	217	Ferreira	Rui	Portugal	510,6	402,1	532,5	506,7	1549,8
92	251	Wang	An Pan	Taiwan	738,9	751,8	0,0	0,0	1490,7
93	136	Mok	Chak Koon	Singapore	269,4	639,0	281,5	553,3	1478,7
94	216	Machado	Carvalho	Portugal	471,5	522,1	476,8	467,0	1470,3
95	121	Romano	Plinio A.	Brazil	300,2	0,0	0,0	714,5	1014,7