

The Journal of *FAI Space Modelling*
The British Space Modelling Association

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Korolev Cup... 22-24 April
2011 ~ *Mescherino-RUS*

Srdjan Pelagic reports in!

LONG TIME, no see! I send you the results tables for the Korolev Cup 2011 – Space Modelling World Cup, held in Meshcherino (Russia) from 22nd – 24th April 2011, as received from Sergei Karpushov, secretary of Russian Federation of Spacemodelling Sports. In his letter, Sergei said he sent me several emails at the beginning of May, but it seems I did not receive any of them!

Thanks to Sergei for providing results and Jury Report [not reproduced here – Ed] for this now traditional event and congratulations to the organisers for another super World Cup.

All this impinges on the overall World Cup standings. I will calculate World Cup points in next few days and distribute the results. So far we have: 7th Catalunya Cup (ESP), Korolev Cup (RUS), Belarus Cup (BLR), Tessin Olza Cup (CZE) and Kaspichan Cup (BUL). You have received thus far: CPL-1 after Catalunya Cup and results for all events, except Kaspichan Cup ...that is being completed soon. Later CPLs were not published because we were missing results from the Korolev Cup until now! Worth waiting for though, as the Korolev Cup has become a classic in the calendar. Straight into the podiums:

S4A-Boost Glider World Cup (17 starters)

1 Nikolay SERGEEV	RUS	80	180	180	= 540s
2 Irina MAYBORODA	RUS	180	135	162	= 477s
3 Vladimir ZHUGEDA	RUS	180	136	150	= 466s

Editorial GREEK FIRE!! Greece has joined the World Cup circuit! ...what a Top Line. Vassilis Bardis and George Vidos travelled to Sremska Mitrovica for the 11th Sirmium Cup and flew World Cup events for the first time in their country's history and set National records too...**FANTASTIC!** So we're moving once more. And this issue features World Cups – lots of them, starting with the latest edition of the Korolev Cup, in April. Obviously a super event...read down and you'll see that Lexa Liuty, interspace.. Junior Space Modeller of the Year 2010, is not resting on his laurels!

Jason Wentworth comes good once more, launching business cards and other stuff into (near..) orbit. Some super links too. A similar contribution from the UK's Geoff Seabrook, pointing us in the way of some more scale data...getting better all the time.

Events...Korolev Cup, Kaspichan Cup, Buzau Cup, World Cup in Krakow, 11th Sirmium Cup, 7th Vega Cup...more to come!

FAI Rules OK...FAI has issued the remit for us to re-write the whole concept of Space Modelling. You hadn't forgotten, had you?!? Srdjan Pelagic makes the issue – and implications - clear in this issue. Please contribute..

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S6A-Streamer Duration World Cup (30 starters)

1 Sergei KRIKUNKOV RUS 87 179 180 = 446s
2 Sergei ROMANYUK RUS 180 80 180 = 440s
3 Vladimir ZHUGEDA RUS 76 180 180 = 436s

S7-Scale World Cup (6 starters)

1 Andrei VISHNYAKOV RUS *Cyklon-3*
706 + 204 = 910pt
2 Denis TKAGHENKO RUS *Taurus Tomahawk*
600 + 106 = 706pt
3 Aleksandr LIPAI BLR *Soyuz*
654 + CE = 654pt

S8E/P-RC Rocket Glider World Cup (14 starters)

1 Alexei LIUTY RUS 954 1000 915+939 = 3808pt
2 A. KRAVCHENKO RUS 1000 840 1000+927 = 3767pt
3 V. MAYBORODA RUS 783 1000 978+805 = 3566pt

S9A-Gyrocopter World Cup (26 starters)

1 Nikolay SERGEEV RUS 180 180 180 + 114 = 654s
2 Nikita POLULYAH RUS 180 180 180 + 0 = 540s
3 Irina MAYBORODA RUS 180 175 180 = 535s

FAI Jury featured Alexei Koriapin (RUS), Oleg Krasnov (RUS) and Valeriy Hrabouski (BLR). Sport Director, Andrei Baushev and Secretary, Yana Ogloblina presided over a good one. S7 Judges Oleg Khorosh (RUS), Vladimir Sedov (RUS) & Sergei Parakhin (KAZ) did a super job in an S7-Scale hall that featured much diversity in the entry of six.

Kaspichan Cup... 20-22 May *2011 ~ Kaspichan-BUL*

WICKED!!! ..hot on the heels of Korolev! We knew things were going to get special when the Bulgarians came back on board the Space Train! This one is a throwback to the glory days of Bulgarian Space Modelling. The World was glad of the Team of Srbija staking claims on the podiums, or it would have been a local whitewash. Magic, into the podiums:

S4A-Boost Glider World Cup (37 starters)

1 Radojica KATANIC SRB 170 180 180 = 530s
2 Biser BRATOEV BUL 180 166 180 = 526s
3 Ivan RADKOV BUL 180 49 180 = 409s

S6A-Streamer D'tion World Cup (39 starters)

1 Plamen JORDANOV BUL 180 180 100 = 460+152s
2 Vladimir CIPCIC SRB 130 150 180 = 460+148s
3 Radojica KATANIC SRB 180 180 100 = 460+ 0s

S9A-Gyrocopter World Cup (28 starters)

1 Toshko STOJANOV BUL 180 143 180 = 503s
2 Nikolay PETROV BUL 172 146 180 = 498s
3 Toni STANEV BUL 135 180 180 = 495s

S7-Scale World Cup (16 starters)

1 Miroslav STANCEVIC SRB *Saturn 1B*
772+115=887pts
2 Dimitar VACHKOV BUL *Soyuz 33*
712+125=837pts
3 Vladimir CIPCIC SRB *Nike Tomahawk*
615+70=685pts

What a hall! *Soyuz, Ariane, Nike Tomahawk/Cajun, Patriot, Ragko, WAC Bumper, Saturns...super!!*

S8E/P-RC Rocket Glider World Cup (8 st'ers)

1 Valentin VACHKOV BUL
1000 1000 997 + 976 = 3972pts
2 Angel TZONOV BUL
1000 917 710 + 1000 = 3681pts
3 Vladimir CIPCIC SRB
319 1000 1000 + 872 = 3191pts

Not a bad podium, but the scoring was pretty shoddy lower down, leaving time for some super non-World Cup stuff :

S3A-Parachute Duration (9 starters)

1 Daniel NENKOV BUL 300 300 300 = 900s
2 Toni STANEV BUL 258 300 300 = 858s
3 Ivan RADKOV BUL 300 171 300 = 771s

Juniors

S4A

1. Nebojsa Stoshich MKD
2. Marijana Savova BUL
3. Nikolay Petrov BUL

S6A

1. Toni Stanev BUL
2. Stanimir Petrov BUL

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3. Nebojsa Stoshich

MKD

S9A

1. Nikolay Petrov

BUL

2. Toni Stanev

BUL

3. Kaloyan Dimitrov

BUL

S3A

1. Toni Stanev

BUL

2. Bojidar Tonev

BUL

3. Veselinov Veselin

BUL

Good or what!?! Utterly brilliant, attracting flyers from Bulgaria, Srbija, Romania, Macedonia and Russia. The FAI Jury of Ion Guzu (ROM), Svetlosar Lekov (BUL) and Marin Georgiev (BUL) presided over a very high standard event indeed. Well done, CD Plamen Stanov, RSO Georgi Georgieski (MKD) and the S7-Scale panel of, Stanisa Petrovic (MKD), Marin Georgiev (BUL) and Dimitar Dimitrov (BUL). Maybe most significant of all was the Juniors' event, running in parallel with the World Cup.

It's the bizz... Jason Wentworth blasts a Business Card into orbit (well nearly..)!

YOU think you've heard/seen it all and then in comes Jason with his latest crazy project! Something completely different, so check out these links:

"Last week I had two business cards flown to an altitude of 73.5 miles aboard the SpaceLoft SL-5 rocket that was launched by UP Aerospace. see:

www.upaerospace.com

..They even flew a jeweller's wedding ring...see:"

www.space.com/11757-rocket-launches-human-remains-rings-suborbital.html

"Here are videos of the launch:"

www.launchnm.com and..

www.youtube.com/watch?v=Fd0nxiDuRLw&feature=related

"Also, I have an idea for the next SpaceLoft launch. There is one additional SpaceLoft flight scheduled for this year. If the BMFA, UKRA, and/or local rocket clubs flew membership cards aboard the next SpaceLoft flight and offered them to members for an additional charge, this would promote these organizations - especially to potential new members - and raise additional money for them. If you and/or they are interested in pursuing this, the contact is Bruce Lee."

email address: blee@up-aerospace.biz

tel.:303-474-4737

303-474-4737

"UP Aerospace's CFO, VP of Operations and Sales."

In fact there's more...the SpaceLoft XL vehicle check out:

www.upaerospace.com/#!vstc3=spaceloft-capabilities/vstc0=space-loft-vehicle

...is similar in size (and shape) and comparable in performance to the Canadian Bristol Aerospace Black Brant III sounding rocket. see:

www.designation-

systems.net/dusrm/app4/blackbrant.html

Black Brant III could boost a 40 pound payload to an altitude of 110 miles, and the vehicle was 10.2" in diameter (the UP Aerospace SpaceLoft XL is 10.4" in diameter).

The SpaceLoft XL can send a 110 pound payload to 72 miles, and it can carry lighter payloads up to 140 miles. Like Black Brant III, the SpaceLoft XL has a Canadian-made rocket motor, which is produced by Cesaroni Technology, Inc. see:

www.cesaronitech.com/solidrocket.php

CTI also manufactures hobbyist rocket motors.

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Estes produces a scale model rocket kit of the UP Aerospace SpaceLoft XL vehicle. see:

www.estesrockets.com/rockets/educator/001793-up-aerospace-spaceloft

AC Supply sells 12-kit bulk packs of SpaceLoft kits for \$36.00. see:

www.acsupplyco.com/estes/up_aerospace.htm

...which is only £21.88 (just £1.82 per kit!)

AC Supply sells them more cheaply than Estes themselves, and they ship to the UK. The Estes factory box that they come in weighs 2 pounds (I recently ordered two SpaceLoft kit bulk packs from AC Supply--their Estes boxes are 6" X 8.5" X 10.75"), and AC Supply shipped them in a larger box to protect the kits from damage.

Editor's note.. *Pretty amazing! In fact, many readers will have seen my BAJ Skua scale model. SpaceLoft SL-5 resembles the full-size Skua, in size, performance and payload carrying capacity. Maybe this is another example of 'Back to the Future'?!?*

Buzau Cup.. 27-28 May 2011 ~ Buzau-ROM...Corker!!

HOT and High!?! ...and that's just the weather and flying standard! This was the pipe-opener and dress rehearsal for the European Championships in August. The result...a brilliant World Cup, attracting Srbija, Russia, Bulgaria and the Hosts. Lucien Sercaianu, with wife Florica did a marvellous job thought and provided supplementary information later. Not too much more to say here, so into the podiums..

S4A-Boost Glider World Cup (26 starters)

- 1 Zika JOSIPOVIC SRB 178 180 180 = 540s
- 2 Toshko STOJANOV BUL 169 180 147 = 496s
- 3 Radojica KATANIC SRB 86 178 180 = 444s

S6A-Streamer D'tion World Cup (35 starters)

- 1 Nikolae RADU ROM 180 180 180 = 540 + 101s
- 2 Zika JOSIPOVIC SRB 180 180 180 = 540 + 0s
- 3 Mihailo PETROVIC SRB 180 145 158 = 483s

S9A-Gyrocopter World Cup (32 starters)

- 1 Radu MIHAILCEA ROM 164 180 174 = 518s
- 2 Boris LEKOV BUL 180 125 180 = 485s
- 3 Zoran KATANIC SRB 180 125 180 = 482s

S7-Scale World Cup (17 starters)

- 1 Miroslav STANCEVIC SRB Saturn 1B
738 +190=928pts
- 2 Geeks CONSTANTINESCU ROM Ariane 3
686 + 86=772pts
- 3 Andi CONSTANTINESCU ROM Ariane 44LP
684 +76=760pts

Super hall! ...and not just the podium. Zika Josipovic also entered a *Saturn 1B* and did well, with Florica Sercaianu impressing with a *WAC Bumper*. Lots more on offer, *Taurus Tomahawks*, *Nike Tomahawk* and several *MIM 104 Patriots*.

S8E/P-RC Rocket Glider World Cup (5 start's)

- 1 Valentin VALCHEV BUL 749 1000 1000 + 1000 = 3749pts
- 2 Angel TODOROV BUL 849 773 709 + 741 = 3072pts
- 3 Vladimir CIPCIC SRB 1000 0 1000 + 978 = 2978pts

Great World Cup – quantity, quality and great sportsmanship. Consequently, little to do for the FAI Jury of Ion Guzu (ROM), Ramaina Lekova (BUL) and Neculae Maxim (ROM). Credit must go to **S7-Scale Judges** Dan Popa (ROM), Gabi Constantinescu (ROM) and Dragos Ortelea (ROM), who slaved in a steamy hall, packed with a rare covey of class birds...sorry, I'll re-phrase that, a wide range of quality scale models!?! In all, Well Done, CD Lucien Sercaianu and RSO Ionut Branza, who didn't do a lot wrong.

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**Krakow...Kracker!! 2011 Cup
in Krakow...4-5 June ~ Krakow-
POL** **by Srdjan Pelagic**

WORLD CUPS in Poland are never ordinary and Krakow no exception...just exceptional. CONGRATULATIONS!! ..to Tadeusz Kasprzycki and his associates for setting up such a massive and successful event. Thanks to Tadeusz also, for providing results in an appropriate form within 48 hours after the World Cup was completed. That is an example to all other organisers.

I attach also a link to photographs of this event made by Leszek Malmyga:

<http://www.rczl.pl/index.php?i1=&i2=2&g=19>

I call other Space Models event organisers to provide us with links to posts, where we can download photos from their events. We must make Space Modelling much more public – that is...known to everyone! Podiums..

S4A-Boost Glider World Cup (46 starters)

1 Jakub JAROS	POL	172 180 180 = 532s
2 Marek ARASIMOWICZ	POL	171 180 156 = 507s
3= Wladislaw STAROBRAT	POL	121 180 180 = 481s
3= Jaraslav CHMELIK	CZE	121 180 180 = 481s

S6A- Streamer Duration World Cup (64 starters)

1 Krzystof PRZYBYTEK	POL	180 180 180 = 540s
2 Konrad WIERBICKY	POL	137 180 180 = 497s
3 Leszek MALMYGA	POL	180 180 131 = 491

S7-Scale World Cup (16 starters)

1 Wojciech KRZYWINSKI	POL	<i>Ariane 3</i> 680+190 = 870pt
2 Marian GRES	SVK	<i>Ariane L-01</i> 633+201 = 834pt
3 Grzegorz GORYCZKA	POL	<i>Nike Apache</i> 534+70 = 630pt

Good hall...*Dauphin, Meteor-1, Jupiter-C, Eridan, Nike Cajun & Maxus*, just a few of the others.

S8E/P-RC Rocket Glider World Cup (18 starters)

1 Eduard WOWRY	POL	1000 1000 1000 + 952 = 3952pt
2 Peter MATUSKA	SVK	1000 962 1000 + 1000 = 3890pt
3 Leszek MALMYGA	POL	878 1000 948 + 961 = 3786pt

S9A-Gyrocopter World Cup (52 starters)

1 Leszek MALMYGA	POL	180 180 180 = 540 + 243s
2 Mykolas TREIKAUSKAS	LTU	180 180 180 = 540 + 193s
3 Vasil PAVLJUK	SVK	180 180 180 = 540 + 117s

S8D-RC Rocket Glider D'tion Junior (10 starters)

1 Artur SZWED	POL	360 310 305 = 975s
2 Maciej PODOKOWSKI	POL	247 214 325 = 786s
3 Szymon BYRTEK	POL	208 360 197 = 765s

eS1B-Altitude (8 starters)

1 Michal BORROWSKI	POL	546.6m
2 Maksin TIMOFEEV	LTU	522.6m
3 Jaraslav CHMELIK	CZE	485.1m

WOW...not just good, but a *Real KRACKER!!!* Slovakia, Czech Republic, Latvia, Lithuania, Belarus and the hosts, Poland, made this maybe the best World Cup of the 2011 tour...so far. Well done, Tadeusz Kasprzycki, MTSR Sowiniec Krakow and Aeroklub Polski. MAGIC!!

11th Sirmium Cup..18-19 June

'11 ~ Sremska Mitrovica-SRB.

'Twas all Greek to some?!?

by Srdjan Pelagic & the Editor

CONGRATULATIONS to Dragan Jevtic and his associates for very successful organisation of this event and *Well Done* to all the winners. Good event, featuring entries from Bulgaria, Croatia, Macedonia, Russia, Srbija, Slovenia and ...GREECE!

Summed up...weather was perfect for competition flying, if just a little too hot on Saturday. Contest organisation excellent; remarkably increased interest

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in scale models by local younger competitors. Downsides...only one foreign competitor in S7-Scale and S8E/P-RC Rocket Glider endured a very small entry. If this trend continues in S8E/P, we may lose this very technical and sophisticated class from World Cups. Organisers *MK Sirmium* and *Vazduhoplovni savez Srbije* awarded the winners with very tasteful cups and diplomas. Congratulations to the most successful competitor...*Marjan 'the papa' Jenko* from Slovenia, who took three cups - one in each of the duration classes!

SEVEN countries and for the first time ever, Space Modellers from Greece came to Sremska Mitrovica and entered an FAI World Cup...FANTASTIC!! Let us welcome them to the fold...*Vassilis Bardis* and *George Vidos* successfully took part in classes S4A-Boost Glider and S6A-Streamer Duration. Their performances of 300 seconds in S4A for Vassilis and 124 seconds in S6A for George, are the first space modelling National Records of Greece!

Vassilis and George were delighted with their first international experience and hopefully we shall meet them again at the EuSMC 2011 in Romania and in some of the other World Cups until the end of this season and...next year. Podiums..

S4A-Boost Glider World Cup (15 starters)

1 Gennady POLTAVETS	RUS	180	180	180	= 540s
2 Marjan JENKO	SLO	180	58	180	= 518s
3 Zoka KATANIC	SRB	180	180	130	= 490s

S6A-Streamer Duration World Cup (27 starters)

1 Radojica KATANIC	SRB	124	111	180	= 415s
2 Marjan JENKO	SLO	140	125	122	= 387s
3 Boris LEKOV	BUL	81	103	180	= 364s

S7-Scale World Cup (15 starters)

1 Miroslav STANCEVIC	SRB	<i>Saturn 1B 205</i>			
			754	+ 100	= 854pts
2 Zika JOSIPOVIC	SRB	<i>Saturn 1B 205</i>			
			715	+ 110	= 825pts
3 Dejan STANCEVIC	SRB	<i>Ariane 3</i>			
			630	+ 85	= 715pts

Pretty big hall with *Nike Tomahawks*, *Nike Taurus* and lots & lots & lots of Juniors with lots & lots of *MIM Patriots!!* 14 Serbs and ONE Macedonian in the mix..

S8E/P-RC Rocket Glider World Cup (5 starters)

1 Mitija ZGAJNER	SLO				
		1000	1000	1000	+ 808 = 2808pts
2 Angel TODOROV	BUL				
		956	797	795	+ 917 = 3465pts
3 Zoka KATANIC	SRB				
		769	838	876	+ 769 = 3252pts

S9A-Gyrocopter World Cup (20 starters)

1 Boris LEKOV	BUL	175	180	180	= 535s
2 Zoka KATANIC	SRB	151	180	180	= 511s
3 Marjan JENKO	SLO	180	178	125	= 483s

Nearly forgot...the FAI Jury comprised Stanisa Petrovic (MKD), Srdjan Pelagic & Andrija Ducak (both SRB). S7-Scale judges were Nikola Cvjeticanin, Dragan Jevtic & Miodrag Cipic (all SRB). Well done too, CD Branislav Krcecinac and RSO Slobodan 'Max' Maksic, of the home club. In all...absolutely marvellous!!

7th Vega Cup.. 1-3 July '11 ~ *Zadovinek-SLO*

by Srdjan Pelagic

CONGRATULATIONS to Marjan Jenko and his associates for a brilliantly organised World Cup. Congratulations go also to all winners in the classes and to all participants from six countries – Slovenia, Croatia, Italy, Serbia, Spain and the United Kingdom - who entered this event.

The original results tables for the 7th Vega Cup needed minor corrections - heading in Slovenian was converted to English as the official FAI language. You can notice distribution of columns in the Results Tables is a little different in relation to all result tables we have distributed so far. I do not know why the organisers did that, but ask that in the future the formal instructions for organisation of the Space Modelling World Cups, is followed. Thank you...to the podiums:

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S4A-Boost Glider *World Cup* (18 starters)

1 Radojica KATANIC	SRB	109	180	180	=	469s
2 Zika JOSIPOVIC	SRB	135	126	180	=	441s
3 Zoka KATANIC	SRB	110	102	180	=	392s

S6A-Streamer Duration *World Cup* (27 starters)

1 Radojica KATANIC	SRB	150	180	180	=	510
2 Zika JOSIPOVIC	SRB	180	170	132	=	482s
3 Toni MAZZARACCHIO	ITA	114	180	132	=	474s

S9A-Gyrocopter *World Cup* (16 starters)

1 Marcal Compano	ESP	81	170	180	=	431s
2 Zoka KATANIC	SRB	96	180	139	=	415s
3 A. MAZZARACCHIO	ITA	180	180	-	=	360s

S8E/P-RC Rocket Glider *World Cup* (4 starters)

1 Blaz GRGIC	SLO	1000	1000	793	+	1000	=	3793pts
2 Mitija ZGAJNER	SLO	864	967	998	+	962	=	3791pts
3 Zoka KATANIC	SRB	900	622	802	+	787	=	3111pts

Good to see UK's John Jacomb making a lone foray into the cauldron of a Balkan World Cup! Srbija charging hard for a couple of World Cups then?!? ..Not just here in Zadovinek, but check out Buzau, Sremska Mitrovica and Kaspichan too. Zika Josipovic & Miro Stancevic are stacking a real pile of points, with Radojica & Zoka Katanic and Vlada 'chirpy' Cipcic, not far adrift.

All things considered, this was a good contest, flown under super conditions of weather and sportsmanship throughout. FAI Jury consisted of Andrija Ducak (SRB), Joze Cuden and Tone Sijanec (both SLO), who had little to do. Contest Director Drago Perc and RSO Marjan Cuden ran the rampa with rare aplomb. Well done all round!

Scale Models' data... Geoff Seabrook's scale paper chase..

EDITOR First...Yet more good news. Scale model's data is becoming almost

commonplace! Hardly an issue of interspace.. passes without yet more sources and links becoming available. Is it just a matter of time before entrants in FAI S7-Scale events turn up at a World Cup with just a CD with all the sources listed?!? What follows here is a bit unusual, but no less useful and informative for that and undoubtedly will contain yet more places to go and look. Over to Geoff..

..I came across the contacts below almost accidentally. *Raison d'etre*...the following may not be everybody's thing, but I may have stumbled into a really useful source of scale data and plans that you may not know about. I was researching scale data for the *Black Knight* and I came across people making paper and card scale model rockets. The place I started was..

<http://www.nielspapermodels.com/index.html>

...and I've already made a V2 and a *Black Knight* using plans from this site. As I research more, I next plan to scale up the Black Knight to make it a flying model. I also came across this site about the British space program..

<http://www.spaceuk.org/index.htm>

...which I suspect you may already know about. Finally – and almost inevitably - there is a useful Yahoo group..

<http://groups.yahoo.com/group/Space-Paper-Models/>

...where the people making these models hang out. Some of the stuff they make is amazing. Check it out, I hope this is as useful to you as it has been for me..

All round, scale model data is becoming more available and accessible, facilitating the means to undertake that lifetime dream project. Let's hope it attracts more people into scale modelling.

Editor's note ..And now for something completely different..

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REMINDER & GUIDELINES

...FAI SPORTING CODE Section 4 Volume Space Models General Revision by Srdjan Pelagic

Dr JOHN GRUBBSTROM, the FAI President, at the CIAM Plenary Meeting in Lausanne, on 14th April, 2011, pointed out that just eight FAI Airsports are spectator & media friendly. But then stressed that all our activities should be combined so to contribute to progress and better financing of Airsports generally. This will require changes in our habits, work, organisation of our events and...Rules. It is likely that World/Continental Championships of two or more Airsports will be combined, so to make our activity more attractive and profitable. In any case, our events must become more dynamic, less time consuming and understandable to the public.

The idea of the FAI Sporting Code, Section 4, Volume SPACE MODELS general revision was thoroughly discussed at the 16th World Spacemodelling Championships (WSMCh) in Baikonur in 2006, based on the *Minakov Project* – Vladimir Minakov's vision of the future. We have seen two official changes of the rules since then, but a total revision should be prepared for 2012.

At the 18th WSMCh 2010 held in Irig (Serbia), proposals were made to make the rules shorter, easier to understand and supported by more drawings that are more informative than verbal descriptions. Numerous proposals were received by space modellers from different countries from January to March 2011, but because of the intensive competition season, further work was impeded and now we must restart this initiative in four discrete phases:

Phase 1 – What should be deleted from the present rule book?

Phase 2 - What should be changed in the present rule book?

Phase 3 – What should be added in the present rule book?

After detailed discussions these should be completed mid-August 2011. Then the final phase:

Phase 4 – How to group space modelling classes and how to designate them?

A document finalised in this way shall be discussed at the CIAM Space Models Subcommittee meeting to be held in Buzau (Romania) during the European SM Championships ~ 20th - 27th August 2011.

We will decide a detailed description - with examples - to clarify the term "general revision". This revision must be *fundamental* – not just editing specific paragraphs. Here is why we should do:

a. The essence of the rule book originates from Harry Stine's rules from 1962, which is OK. But there were only three classes in these rules and new classes came in late. So, there are ten official and three provisional classes S6A/P, S11/P, S12/P that are practically not flown at all (except occasionally S12/P in BLR, RUS and UKR). If we look at the FAI SC 4 Volume SM Table 1 – Space Models "S" Classification of Records we shall notice more than 40 records, but in WChs/CChs we fly only 8 classes and in World Cup – 5 classes. The rest of more than 30 subclasses nobody either flies or models for these classes even exist. It is necessary first to reduce number of subclasses that are not flown at all and then the rest of the classes to group, like it is the case with aero models. That is also the FAI/CIAM request for all aero/space modelling branches.

b. When we speak about the classes' grouping the basic example was Aeromodelling. There classes are grouped into categories: F1 – Free Flight; F2 – Control Line; F3 – RC models; F4 – Scale; F5 –Electric; F6 – Promotional Classes; F7 – Aerostats. There are many classes in each category. We can group SM classes in a similar way: a) Free-flight duration (S3, S6, S9), b) Free-flight gliders (S4 and S10), c) Altitude (S1 and S2) d) RC (S8, S8E/P and S11/P) e) Scale Models (S5 and S7). V. Minakov's proposal is little different: a) S1 – Free flight duration models, b) S2 – Altitude models c)S3 - RC models d) S4 - Scale models e)S5 - Free flight duration and precision launch models. More details shall be given in the next email.

c. There were discussions about technical characteristics of SM models in last 15 years. The Sapphire (SM Development program launched in 1997) established some guidelines for further development of our models. They had to be: a) Safe; b) Attractive; c) Public Promotional; d)...to apply High-Tech developments and Inventions; e)because of the Space Modelling (Model Rocketry) enhancement. All this required us to build bigger, good looking models with excellent flyability, safe, flyable many times and attractive to the spectators and media. These objectives are only partly fulfilled.

d. Much more can be achieved with good development and technical support. They were present in early days of SM, but recently competitions are of the greatest importance and future development went "backstage", with some exceptions. What

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must be reconsidered soon are... a) dimensions of all models per classes and their minimum and maximum weights; b) wing span of RC and Ff gliders and changeable configuration; c) payloads and electronic equipment for retrieval of the models; d) software for different measurements (engine testing, altitude measurements etc)...and for organization of the events and elaboration of results. Talking of weights – in Table 1 of the SC4 Volume SM, maximum weight for S1A is 30 grams and for S3A is 100 grams! Absurd!! ...and not the only one. All similar things must be corrected.

e. Class S2 was flown only ONCE in WSMCh 1980 in Lakehurst (USA) and was flown never again in the FAI international events. Problem was with the unsafe lead payloads that were supposed to become “smart” and/or “operational” – but they did not.

f. Electronic altitude measurement was introduced, but conditions for it given for the CIAM Plenary Meeting 2008 that are published in the FAI SC4 Volume SM (Edition Jan 1, 2010) were already outdated when published and had to be improved by the Local Rules approved by the CIAM Bureau for the WSMCh 2010, in Serbia. These Local Rules shall be used for EuSMCh 2011, in Romania, again. It is very important to obtain the official rules for electronic altitude measurements.

g. There is in the FAI SC 4 Volume SM par. **4.9.3 Minimum Horizontal Distance Method (S1X Method)** that is theoretically developed and practically tested in the USA and Germany, but which was never applied in the FAI international events. It requires at least three tracking stations and is expensive and slow in relation to electronic altitude measurements. Therefore it should be deleted from the rule book as obsolete.

h. There are also some contradictions in static judging of scale models, which scale judges try to remove in practice, but the rules still stay unchanged. Namely, there are a great number of non-carrier rockets with excellent “flyability”, but because a “static judging fashion”, carrier rockets are awarded with enormously high points. So, total static points for “carriers” (Saturn 1B, Soyuz, Ariane) go over 700 points, while sounding rockets with perfect workmanship and flyability rarely achieve 600 points. Since building of a carrier is very demanding and expensive, the number of participants in S7 (Scale models), that most attractive class for public and media, rapidly declines.

i. Special attention must be paid to the FAI SC 4 Volume SM par 4.4.3 – “Builder of the model” when we speak about scale models. 1) Because of high technological demands for building carriers only limited number of persons is able to produce such scale models. So, either only several persons are “qualified” for top placings or in case of ambitious newcomers a new kind of “business” is being developed. Judges do not have an appropriate answer how to stop this; 2) Problem in 1). continues with the junior scale models competitors. It is evident that a 10 to 12 years old boy/girl cannot be the “builder of the model”, if this

model is very complex and technically sophisticated Saturn 1B or Ariane. We must change the rules so to encourage youngsters to enter contests with the models they can build, prepare for flight, launch and retrieve.

j. It is clear that A and B engines are too small for altitude competition models. Because of low velocity at the end of launcher when a model becomes airborne, airflow/aerodynamics is insufficient and number of DQs for unstable flights, approaches 30%. Some predictions were that electronic altitude measurements would improve this figure, but the conclusion was – electronics cannot improve bad flyability! Solution may be in bigger models with more powerful motors and improved flyability.

k. Annex 2 – Guide for judges and organizers certainly should be divided into two guides – one for judges and the second for the organizers. Guide for organizers should be completed with many new items relating electronic altitude measurements. Also, Annex 5 – General Organization of a World Championships should be more Space Modelling orientated.

l. Someone’s pleasure might be to get up at 5.30 AM and to come back from the flying field at 9.00 PM. It looks really unusual ordinary people to award cups and diplomas in light of car headlights. If we wish to be treated as a real sport we must attract spectators and media to our events. Do you know any other sport with similar practice? Do we need it really or we should change our practice and habits!?

m. Space Modelling was a part of the 1st *World Air Games* in Turkey 1997, the greatest and the most ambitious FAI project. Then in 2003 we were deleted from the WAG program for 2nd WAG in Spain, because the organiser evaluated our activity as “boring to tears”. We tried since then to rejoin WAG and now it seems possible for 2013. Guy Revel, CIAM WAG coordinator, suggested us a new class acceptable for WAG: Space Race – with two teams of two members competing simultaneously. It should be a very dynamic event. We shall give you details in the next email. [see last **interspace..** too – Ed]

n. Our present rule book requires at first a very careful proof reading. It was “uniform” and “smooth” in early days of SM, but many changes caused it to look like an old coat full of patches, because some changes were made, without seeing contradictions in other parts of the rules. These relates to some quotations in a few paragraphs from the ABR volume, which are not correct because of changes in this part of the rules too. Therefore some of the rules are not practically applicable or require clarifications.

The draft of the new rule book, after discussions, should be completed before August 15, 2011 and shall be discussed at the CIAM Space Models S/C meeting in Buzau (Romania) within EuSMCh 2011. All proposals shall be reconsidered during September and October 2011 and after being approved by the CIAM Space Models S/C (after voting) shall be forwarded to the

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FAI Office before November 15, 2011 for consideration and approval by the CIAM Plenary Meeting in April 2012. If and when approved the new rules shall become effective from January 1, 2013. *Looking forward to your comments and suggestions.*

- FAI Sporting Code, Section 4, Volume Space Models can be downloaded from:
http://www.fai.org/aeromodelling/system/files/SC4_Vol_SM_Space_11.pdf
- Similarly, FAI SC 4, Volume ABR:
http://www.fai.org/aeromodelling/system/files/SC4_Vol_ABR_11.pdf.

Editor's note.. One Sporting Code, under siege. Here are just a few of the things G. Harry Stine did not know about when he penned his magical words of Genesis, back in 1962...

The European Union. Break up of the Communist Bloc. Led Zeppelin. Sexting. Colateralized debt obligations. Computers. Won't Get Fooled Again (wot...Who?!?). The IMF. Lady Gaga. Margaret Thatcher and Ronald Reagan (tho' he'd seen the latter in the movies..). The Space Shuttle and International Space Station. Phone hacking. Sex, drugs and rock & roll at the Ljubljana Cup..

Acknowledgements (apologies..) to TIME magazine, who recently did something similar to front up a discussion on the U.S. Constitution.

Ringpiece... *that's all folks, more than enough!*

THERE'S always a time to stop and we've reached it?! We've seen lots of super World Cups in 2011, thus far. Let's hope the next lot are just as inspiring; let's hope the European Space Modelling Championships in Romania, this August, is stellar.

One thing's for sure...you'll be reading all about it in **interspace..** The Editor takes the opportunity to thank contributors, Jason Wentworth, Srdjan Pelagic and Geoff Seabrook for their significant contributions in this issue.

Time to be serious in the sign off. We need to be proactive in order to ensure that FAI's remit to make Space Modelling more media & spectator friendly is not the Goose that *breaks* the Golden Egg. FAI is talking about layering Space Modelling major Champs with other disciplines – we mustn't be left the 'poor relations' in any such merger. We mustn't let 'shop window' classes migrate and be lost. We must take charge; We must take the decisions: We must NOT LET OTHER PEOPLE TAKE THEM FOR US. I can see many more column inches (centimetres..) in **interspace..** coming up!

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