

The Journal of *FAI Space Modelling*

The British Space Modelling Association

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Editorial PLENTY in this one...no surprises there! We've got the 18th World Space Modelling Champs - Seniors + 9th WSMC - Juniors...S7-Scale & S5-Scale Altitude - fantastic! ..and more (and yet more..) World Cups!! More stuff of general interest too, if classic *Estes* and *Centuri* model kits are your bag, regular columnist, Jason Wentworth comes up with the goods. Jason came to England recently and we were able to meet up...at the *Northcote Heavy Horse Centre*, in Lincolnshire - nags are Jason's other buzz. Incredible, were are now in Autumn, where did the summer go?!? Plenty more too and I guess, enough from me, so into the issue proper..

2010 Cup of Zielona Gora- POL ~ 16-18 July ..Big, Brash & Beautiful!?! ..over to Srdjan Pelagic

CONGRATULATIONS to Leszek Malmyga and all his associates for organising this very, very successful event! 2010 Zielona Gora Cup is a great example for other organizers how to set up such events:

- Six participating countries - *Slovenia, Poland, Slovakia, Germany, Czech Republic & Latvia*
- 40 or more participants in duration classes.
- 20 or more participants in S7 and S8/P.
- No zeros in S6A and S8E/P and only 2 DQs in S7.
- Awards for best juniors,

- Results and Jury reports prepared exactly according to the instructions and sent to my goodself the very next day.

Very close in participation per classes and some other aspects to the *Antanas Gustaitis Cup*. We've seen some super World Cups in 2010, but Zielona Gora seems to be the best in all respects, so far. I believe the organisers and participants of the forthcoming 'Cups shall do their best to make even better events. Let it be a challenge for them.

S4A-Boost Glider World Cup (45 starters)

1 Vaclav KRUTA	CZE	150 180 180 = 510s
2 Szymon BYRTEK	POL	162 180 167 = 509s
3 Jaroslav CHMELIK	CZE	180 180 129 = 489s

S6A-Streamer Duration World Cup (57 starters)

1 Krzysztof PRZYBYTEK	POL	180 100 122 = 402s
2 Wladislaw STAROBAT	POL	123 180 92 = 395s
3 Jan SEBESTA	CZE	79 155 180 = 387s

S9A-Gyrocopter D'tion World Cup (42 starters)

1 Jaroslav CHMELIK	CZE	180 167 129 = 476s
2 Marek ARASIMOWICZ	POL	180 102 180 = 461s
3 Sebastian SZULC	POL	82 155 180 = 417s

S7-Scale World Cup (23 starters)

1 Bedrich PAVKA	CZE	<i>Ariane 44LP V-99</i> 789 + 238 = 1027pts
2 Wojciech KRZYWINSKI	POL	<i>Ariane 3 V17</i> 770 + 244 = 1014pts
3 Antoni KARCH	POL	<i>Saturn 1B</i> 785 + 132 = 917pts

S8E/P-RC Rocket Glider Spot World Cup (25 starters)

1 Mitija ZGAJNER	SLO	1000 1000 972 + 978 = 3950pts
2 Lauris PUMPURS	LAT	1000 941 998 + 1000 = 3939pts
3 Tomaz KARCH	POL	982 956 1000 + 993 = 3931pts

This was a honey and overseen by the FAI Jury of Jerzy Siatkowski (POL), Vera Pavkova (CZE) & Lubomir Jurek (SVK). S7-Scale Judges kept very busy! ..well done, Arnis Baca, Tibor Gira, Andrizi Sawicky, Andrizi Pikosz, Marcin Bielecky & Jacek Kobzda. RSO Jan Maixner was...BRILLIANT! ..and finally Contest Director, Jacek Kobzda must take the real plaudits - WELL DONE!

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**Shostka Cup-UKR ~ 22-25
July ..Magic!! ..justMAGIC!!**

YURIY HAPON...Well Done! ..and a big Thank You to the Shoska Impulse Energy Company, who sponsored this amazing World Cup. Super startlist, big numbers, fantastic S7-Scale hall...what more do you want?!? Podiums..

S4A-Boost Glider World Cup (34 starters)

1 Nikolai TSIGONOV	RUS	180 180 180 = 540+192s
2 Vladimir MENSHIKOV	RUS	180 180 180 = 540+128s
3 Kiril STROKOV	RUS	180 180 180 = 540+75s

S6A-Streamer Duration World Cup (44 starters)

1 Olga IBRAGIMOVA	UZB	180 69 180 = 429s
2 Alexei EZHOV	RUS	180 58 180 = 418s
3 Nikolay SERGEEV	UKR	56 180 180 = 416s

S7-Scale World Cup (20 starters)

1 Vladimir MENSHIKOV	RUS	<i>Soyuz TM-5</i> 780 + 180 = 960pts
2 Maksym LAVYRENKO	UKR	<i>Trailblazer-1</i> 542 + 180 = 722[ts
3 Vitali BATALOV	RUS	<i>Taurus Tomahawk</i> 594 + 104 = 698pts

Soyuz TM, Trailblazer, Taurus Tomahawk, Mercury Redstone, Meteor 3, Nike Apache, Jupiter-C, Eridan, Alazan, Interkosmos, M-3511-1, Cyklon.....what a line up for the judges!!

S9A-Gyrocopter D'tion World Cup (41 starters)

1 Vladimir MINKEVICH	BLR	119 180 180 = 479s
2= Vitali MAYBORODA	RUS	120 180 176 = 476s
2= Sergui ROMANIOUK	RUS	116 180 180 = 476s

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

1 Vitali MAYBORODA	RUS	979 1000 801 + 1000 = 3780pts
2 Sergei BOLSHAKOV	RUS	948 1000 1000 + 3708pts
3 Vitaliy SMOLIANKO	UKR	1000 901 849 + 551 = 3301pts

FAI Jury of Vladimir Minakov (RUS), Oleksandr Lipetskiy (UKR), Eduard Romanov (BLR) & Alexei Koriapin (RUS) oversaw a good one and S7-Scale Judges, Eduard Romanov, Oleksandr Pohrebniak & Vladimir Kovalev were on overtime!. Well done, CD Yuriy Hapon & RSOs Vladimir Panakhno & Andrey Baushov. A bit good then..

**Dniepropetrovsk Cup 2010-
UKR ~ 27-30 July ..More from
the magic land of Ukraine!!**

MANY of the former Soviet Union's superstar Space Modellers hailed from Ukraine. Brilliant events too and Dniepropetrovsk deep in the east. **CD, Ludmila Volkova & RSO, Vladimir Panochko laid on a beauty for Russia, Uzbekistan, Belarus & hosts Ukraine! Podiums:**

S4A-Boost Glider World Cup (26 starters)

1 Vladimir MINKEVICH	BLR	180 180 180 = 540s
2 Alexei EGOV	RUS	180 180 177 = 537s
3 Dmitri TROHIMENKO	UKR	180 171 181 = 531s

S6A-Streamer Duration World Cup (25 starters)

1 Vladimir MINKEVICH	BLR	154 170 98 = 422s
2 Vladimir KISILEV	RUS	180 145 90 = 415s
3 Valentina ROMANIOUK	UKR	180 174 174 = 405s

S7-Scale World Cup (16 starters)

1 Aleksandr LASHKO	UKR	<i>Zenit 3SL</i> 728 + 230 = 958pts
2 Dmitri TROHIMENKO	UKR	<i>Saturn 1B</i> 720 + 188 = 908pts
3 Sergey SHULAK	UKR	<i>Saturn 1B</i> 716 + 169 = 885pts

Zenit, Saturn 1B, Trailblazer, Mercury Redstone, Eridan, Alazan, Dragon III, Jupiter C.....yet another magic hall!

S9A-Gyrocopter D'tion World Cup (23 starters)

1 Aleksandr LIPAI	BLR	180 167 180 = 527s
2 Vladimir MINKEVICH	BLR	153 180 157 = 490s
3 Sergey ZOLOTARYOV	UKR	146 138 168 = 452s

S8E/P RC Rocket Glider World Cup (12 starters)

1 Vitaliy SMOLIANKO	UKR	924 1000 1000 + 755 = 3679pts
2 Alexei EGOV	UKR	1000 633 981 + 1000 = 3614pts
3 Sergei BOLSHAKOV	RUS	1000 879 792 + 822 = 3493pts

FAI Jury comprised, Vladimir Minakov (RUS), Igor Volkanov (UKR) & Alexei Koriapin (RUS. S7 Judges, Olga Ibragimova, Aleksandr Lipetskiy & Aleksandr Zagorodny. All did well in searing heat of ~40deg C!

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Classic Estes and Centuri kits

..a lot are still available

by Jason Wentworth

“SINCE *Centuri's* model rocket kits never did, as far as I know, reach the UK, as Estes' did, I thought I'd send you links (please see below) to scans of catalog entries for several popular Centuri kits. It is my listing of old favorite Centuri kits for re-issue that I sent to Rick Piester, plus several others. (Centuri's 1:100 scale Apollo Saturn 1B, Apollo Saturn 5, and Apollo Little Joe II kits were better than Estes', as their plastic detail parts and body wraps were more detailed. Centuri also offered a large, exquisitely-detailed 1:45 Scale Apollo Little Joe II.) Here is the list..”

Space Shuttle #KC-6

<http://www.ninfinger.org/rockets/nostalgia/72cen044.html> (scale-like dual boost-glider)

SST Shuttle-1 #KC-17

<http://www.ninfinger.org/rockets/nostalgia/72cen042.html> (scale-like boost-glider)

Long Tom #KC-4

<http://www.ninfinger.org/rockets/nostalgia/72cen030.html> (two-stage)

Micron #KA-5

<http://www.ninfinger.org/rockets/nostalgia/72cen018.html> (sport model)

Vector-V #KB-2

<http://www.ninfinger.org/rockets/nostalgia/72cen014.html> (science fiction)

Taurus Fleet Ship KB-3

<http://www.ninfinger.org/rockets/nostalgia/72cen046.html> (science fiction)

MX-774 #KA-3 (scale) and Nike-Smoke #KS-15

<http://www.ninfinger.org/rockets/nostalgia/72cen028.html> (scale)

Sky-Lab #KB-4

<http://www.ninfinger.org/rockets/nostalgia/72cen070.html> (futuristic)

Swift #KBG-3

<http://www.ninfinger.org/rockets/nostalgia/72cen044.html> (boost-glider)

X-24 Bug #KA-12

<http://www.ninfinger.org/rockets/nostalgia/72cen018.html> (boost-glider)

The Mini-Line: Fireflash #KM-5 (scale), Star Trooper #KM-3 (a planned Estes re-release [contest rocket]), Two-Bitz #KM-1 (featherweight recovery), and Mini-Dactyl #KM-6 (boost-glider)

<http://www.ninfinger.org/rockets/nostalgia/73cen00c.html>

Hummingbird #KF-2 (boost-glider), Jayhawk #KF-1 (semi-scale), Nomad #KB-5 (scale-like), Excalibur 2 #KF-5 (two-stage), and Arrow 300 #KB-7 (three-stage)

<http://www.ninfinger.org/rockets/nostalgia/73cen70e.html>

Starfire #KC-12

<http://www.ninfinger.org/rockets/nostalgia/72cen022.html> (parachute duration contest model)

Orion #KC-8

<http://www.ninfinger.org/rockets/nostalgia/73cen036.html> (scale-like)

Vulcan #KA-10

<http://www.ninfinger.org/rockets/nostalgia/72cen016.html> (science fiction)

Fighter Fleet kits (various Cat. Nos.)

<http://www.ninfinger.org/rockets/nostalgia/79cen026.html> (semi-scale)

Strike Force missile kits (various Cat. Nos.)

<http://www.ninfinger.org/rockets/nostalgia/79cen016.html> (semi-scale)

"KWIK-KITS" Argus #5039 (scale-like), Screaming Eagle #5173 (sport model), Phoenix Bird #5407 (large sport model)

<http://www.ninfinger.org/rockets/nostalgia/79cen010.html>

Super Kits (various Cat. Nos.)

<http://www.ninfinger.org/rockets/nostalgia/79cen024.html> (futuristic)

Lancer #KD-1 (scale-like), Lance Corporal #KD-11 (two-stage, scale-like) <http://www.ninfinger.org/rockets/catalogs/centuriRT75-76Winter/7576WcenRT6.html>

Viking #5440 (educational and sport model)

<http://www.ninfinger.org/rockets/catalogs/centuri81/81cen34.html>

Apollo Little Joe II #KS-9 (1:100 scale)

<http://www.ninfinger.org/rockets/nostalgia/72cen032.html>

Apollo Saturn 5 #KS-12 (scale)

<http://www.ninfinger.org/rockets/nostalgia/72cen038.html>

Apollo Saturn 1B #KS-10 and Apollo Little Joe II #KS-8 (1:45 scale) <http://www.ninfinger.org/rockets/nostalgia/72cen040.html>

Estes has owned Centuri for decades, and they have the tooling to re-create Centuri kits. In fact, some Estes kits such as the Maniac and Eliminator use Centuri parts.

...and now, the bit you've all been waiting for...

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18th World Space Modelling

Champs ~ Seniors, plus..

9th World Space Modelling

Champs ~ Juniors..

21-28 August 2010 ~ Irig, Srbija

by the Editor

FIRST UP, this is not a report of the whole 'Championships – the Editor spent most of the week in a steamy room at Hotel Termal, in Vrdnik, judging S5-Scale Altitude and S7-Scale Models. Consequently, the event as a whole was not observed. This report focuses on the Scale models' events, for Seniors and Juniors, off we go..

SEVENTY SIX Trombones make a Big Parade...ONE HUNDRED Scale rockets make a lotta work!! This was a big World Space Modelling Champs in every way; 25 nations, 400 competitors and similar numbers of camp followers...massive. Organisers MK Sirmium, under the motivation of Andrija Ducak had their work cut out. This features S7-Scale for Seniors & Juniors, plus S5C-Scale Altitude ~ Seniors & S5B-Scale Altitude ~ Juniors. This report focuses on the models and the players in the World Game.

Once more, your scribe got the call to judge at this event. The FAI Scale Judges comprised M. le chef, Oleg Khorosh (RUS); Jan Kot'uha (SVK); Nikola Cvjeticanin (SRB); Ion Guzu (ROM), plus Stuart Lodge (GBR). Allied to these and key to the process, was the Measuring Team of Jiri Kaspar (CZE), Tibor Pap & Stojan Mrdjanov (both SRB), who slaved rigorously with rulers, callipers and micrometers, before the judges got started. Four scale classes then and there follows a brief resume of what FAI scale is all about. Scale models are what the public likes to see and popular amongst sports flyers. World level FAI Space is uncompromising and two generics exist in the FAI Sporting Code, S5-Scale Altitude and S7-Scale..

S5-Scale Altitude .. Easy, *Static Scale points +*

Altitude/metres = competitor's score. Two rounds of flying and the biggest number wins. Seniors' prototypes have a minimum body diameter of 40mm and maximum Specific Impulse of 10 Newton seconds (Ns) - termed S5C. Juniors' models are 30mm diameter, maximum impulse of 5Ns - called S5B. Two-staged sounding rocket prototypes normally the rule, higher degree of difficulty, meaning bigger numbers in the hall and more efficient on the range. An innovation for 2010 was that these birds were to feature *electronic Altimeters* (eAltimeters), for the first time ever.

S7-Scale ..Just amazing! Complex prototypes are normally chosen and researched until the entrant could discuss the finer points with the designers. Brilliantly built and finished, with special effects like multi-staging, satellite launching, discarding boosters layered in the boost the flight score. The class is unrestricted dimensionally and 160Ns Specific Impulse allowed, normally spread out between up to nine rocket motors...all of which score points. Static score added to the flight points with the biggest number winning.

100...yup, ONE HUNDRED scale models confronted the judging panel as we entered the hall on Day 1! Priority 1 was to complete the static scores for the 23 S5B-Scale Altitude and 31 S5C-Scale Altitude birds that were due to be flown on the Wednesday of the 'Champs...only two days away!?! A downside is that very few prototypes are perfectly suited to this class and diversity very limited – there were 9 *Taurus Tomahawks* & 6 *Nike Cajun* birds in the Juniors' class and 18 *Taurus Tomahawks* & 6 *Nike Cajuns* in the Seniors. *Bumper WACs* made up the balance.

S5B & S5B-Scale Altitude Seniors + Juniors.. In S5B-Scale Altitude static, the best points went to juniors, Alexandru Nica + Constantin Radu (both ROM) with *Bumper WAC*, Vladislav Verstov & Alexei Liuty (both RUS) with *Bumper 7* prototypes and Miodrag Cipic & Tomislav Erdeg (both SRB) with *Taurus Tomahawk*. Seniors' S5C-Scale Altitude was a real mixer, with Evgeny Korobeinikov's (RUS) *Bumper WAC*, Tomasz & Antoni Karch's (both POL) *Taurus Tomahawks* and Florica & Lucian Sercaianau (both ROM) with *Bumper WACs* looking great...but lots more from the Czech Republic and Slovakia, in particular, well capable of upsetting the apple cart. USA had George Reynolds, Cassidy & Kaitlyn Steele with models of...Model Rockets! Actually, *Space Grant* and *Space Grant 1* HPR models – OK though. And at this point, the Scale Altitude models left us to complete their performance regime at the site at nearby Irig. Leaving Messrs Khorosh, Cvjeticanin, Kot'uha, Guzu and Lodge to focus on the best rocket models on the planet...class S7-Scale!

S7-Scale ~ Seniors + Juniors.. First up, all the *Soyuz* models – 4; *Arianes* – 18; *Saturn 1B* – 14, were lined up together for comparison. Other prototypes, such as, *Interkosmos*, *Nike Hercules*, *Jupiter-C*, *Little Joe* and *Bumper WAC* grouped together for more individual scrutiny. Only sixteen in Juniors' S7-Scale and thirty in Seniors to rank then!?! At this point, previous

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experience – the judges had seen many of these models at the 2009 European Champs – played a major role. The models' documentation was examined and if unchanged from the previous 'Champs, the same scores were recorded. Degree of Difficulty attracted the same numbers and we were well into the process. Newcomers were then directly compared and scored accordingly. Jiri Kaspar's measuring team had already finished their vital work and Scale Adherence points noted down.

Aleksandr Levikh (RUS) with *Soyuz TM-12*, has long been the beast to beat in the hall; no better replica in the history of Space Modelling. This the bird that lofted the UK's Helen Sharman into Space; an amazing example to model. Documented like nothing else, the photos even showing where technicians working on the hatches had stuck white insulating tape over the covers to flag their completion of a task. This is reproduced on the model in near-microscopic form! All rivets are shown, colour detail is super and the TM-12 is set up with a myriad of special effects (SFX). Scored 831 points in static...but still not perfect (quite).. Great to see Bulgarians Stojan Vranchev, Pavel Tilev and Dimitar Vachkov back after many years, with super *Soyuz 33* prototypes in the hall.

Saturn 1Bs from all over looked like the major opposition. Higher Degree of Difficulty than the Arianes on show Big players in the Seniors' event looked to be, Mikulas Szabo & Peter Wagner (both SVK), Tomasz & Antoni Karch (both POL), the home trio of Zika Josipovic, Miroslav Stancevic & Vladimir 'chirpy' Cipic – all *Saturn 1B* and Zdenek Kolar, Bedrich & Martin Pavka (all CZE), Gabi & Geeks Constantinescu (both ROM) – all *Arianes*. But sure to be big surprises out on the range when the flying began. The Juniors' event more complex still, the Serbs Dejan Stancevic, Miodrag Cipic, & Milos Jovicovic, seemed favourites, all with *Saturn 1Bs*. But lots more like Andi & Mihai Contantinescu (both ROM), Maxim Demidov, Dmitri Korsakov & Yan Zhuk (all RUS) with *Arianes + Interkosmos*.

The Flying.. Great news was, the use of eAltimeters in S5B & S5C-Scale Altitude had delivered a much more consistent level of scoring than we had become accustomed to over the decades. Not perfect, but the decision to implement these devices absolutely justified...Well Done Andrija Ducak and MK Sirmium.

S7-Scale.. We took the Juniors first, on Thursday morning. Poland first to go and they went with a BANG!! Tomasz Czaplicky and Mateusz Kormanski's *Ariane 40* and *Ariane 1* suffered motor explosions when the button was pushed!! The third Pole, Piotr Sulkowski suffered a DQ for flight irregularities...not a good start then. Half the entry suffered the same fate in Round 1. It was a dogged battle that really only approached sanity towards the end of Round 2, when home players, Dejan Stancevic, Miodrag Cipic and Milos Jovicovic nailed successful qualification flights one after another and a 1, 2 & 3 result, plus the Team Gold!

Post-prandial saw Seniors' S7-Scale. This got put to bed at an early stage when Aleksandr Levikh (RUS) boosted the *Soyuz TM-12*, with SFX like discarding boosters, staging and space

capsule launching all recovered successfully under lots of parachutes and streamers...831 + 218 = 1049pts; very big target. Big losers in this drama were first of all the Slovaks, Peter Magner, Zoran Pelagic and Miki Szabo... their *Saturn 1Bs* all delivered DQs in the flights. Serbia – hot favourites after European Champs Team Gold in 2009 – fared little better, with Zika Josipovic and Vlada Cipic fouling out, leaving only Miroslav Stancevic to nail a good 6th...but not what they came for. The Czechs and Poles can normally be relied upon and Bedrich Pavka, Zdenek Kolar for the former and Tomasz & Antoni Karch, backed up by the veteran Wojciech Krzywinski delivered the goods on the rampa. The flying standard was good, 'though again, too many DQs asked the question whether the best space modellers on the planet were really on show. Russian Levikh got the Gold, Bedrich Pavka Silver and Antoni Karch Bronze. Teams – 1 Czech Republic, 2 Poland, 3 Russia.

Scaling down.. It's hard to describe how good Scale was at this 'Champs. Revolution was the use of eAltimeters in S5B & S5C-Scale Altitude - overdue, but surely risky to inaugurate at the biggest space modelling event on earth. But these two events had much more credibility at the 12th & 9th World Space Modelling Champs as a result.

Often overlooked is the historical significance of S5-Scale Altitude and S7-Scale. So much research is undertaken by the competitors, plus both peer & judges' scrutiny, that the models really do resemble the 'Real Thing', much more so than typical museum replicas. However, there is still one shortcoming – *Colour*. *Taurus Tomahawk* was a very popular choice in both classes of S5-Scale Altitude, the bottom booster stage a 'matt camouflage green'. No problems then...except that the spectrum of greens on show in the hall was astonishing! And also, documented colour photographs of the '*Tomahawks* not helpful, with a similar spectrum on display; how matt too. Seriously, this very simple issue needs addressing, this 'matt green' surely carded in the PPG paint colour index?!? Other inexplicable colour variations in the hall too.

The 'Champs.. Just magic! A huge event that tested organisers MK Sirmium to the limit, with Andrija Ducak, Dragana Spasojevic, Milica Petrovic, Ivana Gvoka and Marina & Vladimir Pauljiev taking most of the plaudits. The FAI Jury of Srdjan Pelagic (SRB), Gerhard Woebbeking (GER) and Tadeusz Kasprzycki (POL) had little to preside over. Oh boy, this one was good...very, very good indeed. About time for some podiums featuring the whole event...but first S5-Scale Altitude and S7-Scale..

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S5B-Scale Altitude Juniors

1 Alexandru Nica	<i>Bumper WAC</i>
2 Vladislav Verstov	<i>Bumper WAC 7</i>
3 Luka Volarevic	<i>Taurus Tomahawk</i>

S5B Junior - Team

1 Czech Republic 2 Poland 3 Romania

S5C-Scale Altitude Seniors

1 Evgeny Korobeinikov	<i>Bumper WAC</i>
2 Lucian Sercaianu	<i>Bumper WAC</i>
3 Florica Sercaianu	<i>Bumper WAC</i>

S5C Seniors - Team

1 Russia 2 Romania 3 Czech Republic

S7-Scale Seniors

1 Aleksandr Levikh	<i>Soyuz TM-12</i>
2 Bedrich Pavka	<i>Ariane 44LP</i>
3 Antoni Karch	<i>Saturn 1B 205</i>

S7-Scale Seniors - Team

1 Czech Republic 2 Poland 3 Russia

S7-Scale Juniors

1 Dejan Stancevic	<i>Saturn 1B 205</i>
2 Miodrag Cipicic	<i>Saturn 1B 205</i>
3 Milos Jovicic	<i>Saturn 1B 205</i>

S7-Scale Juniors - Team

1 Serbia 2 Romania 3 Poland *and now the rest..*

S1B-Altitude ~ Seniors

1 Joze Cuden	SLO	Slovenia
2 Miha Cuden	SLO	Russia
3 Pavel Krasnov	RUS	Serbia

S3A-Parachute ~ Seniors

1 Toni Mazzaracchio	ITA	Serbia
2 Pavel Krasnov	RUS	Poland
3 Branislav Krcecinac	SRB	Macedonia

S4A-Boost Glider ~ Seniors

1 Gintaras Juzevicius	LTU	Russia
2 Vladimir Menshikov	RUS	Slovenia
3 Miha Kozjek	SLO	Poland

S6A-Streamer ~ Seniors

1 Stefanie Uhlig	GER	Serbia
2 Zoran Katanic	SRB	Poland
3 Goce Josifovski	MKD	Macedonia

S8E/P-RC Rocket Glider Spot ~ Snr Teams

11 Petar Matuska	SVK	China
12 Stefan Turza	SVK	Slovakia
13 Zhaonian Zhang	CHN	Poland

S9A-Gyrocopter ~ Seniors

1 Toni Mazzaracchio	ITA	Russia
2 Slawomir Lasocha	POL	Belarus
13 Leszek Malmyga	POL	Poland

S1A-Altitude ~ Juniors

11 Denis Gaganov	RUS	Romania
2 Vitali Batalov	RUS	Serbia
3 Milan Petkovic	SRB	Czech Republic

S3A-Parachute ~ Juniors

11 Dmitri Korsakov	RUS	Russia
12 Mitar Petkovic	SRB	Spain
13 Zeren Jin	CHN	Serbia

S4A-Boost Glider ~ Juniors

1 Alexei Liuty	RUS	Russia
2 Vladislav Verstov	RUS	Serbia
13 Mitija Zgajner	SLO	Poland

S6A-Streamer ~ Juniors

1 Jakub Fialkowski	POL	Poland
2 Samo Perc	SLO	Slovenia
3 Vesna Katanic	SRB	Ukraine

S8D-RC Rocket Glider ~ Juniors

1 Alexei Liuty	RUS	United States
2 Alyssa Stenberg	USA	Czech Republic
3 Jan Chmelik	CZE	China

S9A-Gyrocopter ~ Juniors

1 Frantisek Kontra	CZE	Ukraine
2 Roman Taran	UKR	Czech Republic
3 Beina Li	CHN	Poland

Folks...that was one helluva World Space Modelling Championships. FAI Jury of Srdjan Pelagic (SRB), Gerhard Woebeking (GER) & Tadeusz Kaprzyki (POL), well done (again..) had little to do. Brilliant...RSOs Marjan Cuden, Slobodan Maksic & Georgi Georgieski and well done Andrija Ducak and all at MK Sirmum. MAGIC!

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And who took part then?!? The United States of America, Germany, Czech Republic, Japan, Belarus, Latvia, Italy, Spain, Poland, Ukraine, Canada, United Kingdom, Lithuania, Bulgaria, Russia, Romania, Serbia, Slovakia, Turkey, Croatia, China, Macedonia, Uzbekistan and Slovenia...phew!! And then...

9th Belgrade Cup...28-29

August 2010 ~ Aero klub Lisiciji Jarak-SRB...another 'Showdown in Serbia' !?! by the Editor

SERBIA'S second World Cup of the season, following hard in the footsteps of Sremska Mitrovica's *Sirmium Cup*. For your reporter, two more working days...the previous week had seen your scribe judge S7-Scale at S5 Scale Altitude models – ONE HUNDRED in total at the 18th WSMC - Seniors & 9th WSMC – Juniors. No time for chilling out...time for yet more judging with valued colleagues, Oleg Khorosh (RUS) and Nikola Cveticanin (SRB): Mind blowing (numbing?!?). Belgrade is always a special World Cup, with Balkan talent from all over in the startlist. Smaller than the World Champs, but with Croatia – now officially recognised, Slovenia, Romania, Latvia, Poland, United Kingdom and hosts Serbia, still much to write home about. Poland dominated in 2009...could they be so influential this time?!?

S4A-Boost Glider World Cup

Very gusty weather, fringing on FAI's limit caused this event to be truncated to two rounds only. Poles. Szymon Byrtek and Krystof Przybytek looked to have the podium lined up from an early stage. The very small entry might

have reflected the losses during the World champs, when S4A-Boost Glider was also carded on a very windy day! Good podium though..

1 Szymon BYRTEK	POL	180	180	=	360s
2 Krystof PRZYBYTEK	POL	150	158	=	338s
3 Fridau ZAN	SLO	180	128	=	303s

S6A-Streamer Duration World Cup

But this one owed us nothing, with some of the World's best going to the rampa. Leszek Malmyga, Jerzy Boniecki and Krystof Przybytek probably started favourites. Miodrag Cipicic, Svetlana Vakic and Stojan Mrdjanov led the home charge. UK's John, Jonathan & Catherine Jacomb indulged a family outing in the Serbian countryside, aided and abetted by Nige Bathe and Mike Francies. The level of competition in this one was brilliant and got better still through the rounds. In improving conditions with the wind declining and the sun beating down there was an upset, with an unknown Serb winning, chased home by Croatia's Romano Suti – paying dearly for a poor round 3 effort - and Konrad Wierzbicky (POL) claiming his first World Cup podium..

1 Slavko SAVIC	SRB	163	115	121	=	400s
2 Romano SUTI	CRO	138	147	90	=	375s
3 Konrad WIERZBICKI	POL	150	92	125	=	367s

S8E/P-RC Rocket Glider Spot World Cup

A dozen went to the rampa, a number being the World's best – specifically, Poland's Eduard 'wow wow' Wowry looked to build on his 2009 World Cup triumph and ably paired with Pawel Janisiewicz and Wojciech Bobrowski. The Baltic States have started to stake a claim on S8E/P-RC Rocket Glider, with Aleksandrs Ojavers and Maris Brakovskis (both LAT) two of their major players. Mike Francies, Jef Ott and Nige Bathe (GRB) would have felt confident of getting something too. But it was the Latvian junior, Lauris Pumpurs who delivered Big Time, with a maximum score in the rounds and a competent flyoff display, leaving even Eduard Wowry chasing shadows, with lesser-known Pole Wojciech Bobrowski grateful in Bronze. Not the biggest all year, but Belgrade delivered a very high standard of competition.

1 Lauris PUMPURS	LAT	1000	1000	1000	+	986	=	3986pt
2 Eduard WOWRY	POL	976	1000	997	+	1000	=	3973pt
3 Wojciech BOBROWSKI	POL	925	956	973	+	964	=	3818pt

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S7-Scale World Cup

A bit of a letdown with only six entries. S7-Scale has been super at Belgrade over many years, but this year lacked a bit of panache. It was very good to see Serb juniors, Delorian Dehelian, Marko Vlajkovic and Lazar Djuric all presenting identical and very smart, *MIM Patriot* missiles. In addition, Dejan Stancevic came to the table with an *Ariane 12*, which none of us were totally convinced he'd built! The flying was good for Pole Wojciech Krzywinski and a time-honoured *Ariane 3 V17*, following up a competent performance at the World Champs. A brilliant qualification flight, leaving bits nestling in the corn, gave him Gold. Miro Stancevic played safer with his *Saturn 1B*, flying single-staged, to notch Silver, leaving offspring Dejan, to take the Bronze..

1 Wojciech KRZYWINSKI	POL	<i>Ariane 3 V17</i>	714 + 133 = 887pt
2 Miroslav STANCEVIC	SRB	<i>Saturn 1B 205</i>	756 + 105 = 816pt
3 Dejan STANCEVIC	SRB	<i>Ariane 12</i>	704 + 86 = 790pt

S9A-Gyrocopter Duration World Cup

Another good one in prospect, but on the day, didn't quite come up to expectations with inconsistent scoring. Poles Leszek Malmyga and Jerzy Boniecki looked to notch some World Cup points. But once more, Latvian Junior Lauris Pumpurs showed just how he has developed in the past year for a spectacular victory, chased by locals, Viktor Cuvik and Marko Vlajkovic. Patchy podium..

1 Lauris PUMPURS	LAT	106 103 89 = 289s
2 Viktor CUVIK	SRB	118 144 - = 261s
3 Marko VLAJKOVIC	SRB	105 94 0 = 199s

Singidunum Soujourn... To have a Showdown, you need to Show Up!?! But a lotta fun all round, even with the lower than normal entry. Time to introduce the major names in the organisation team, from *Vazduhoplovni savez Beograda* - Aeronautical Union of Belgrade. Biggest player of all was Contest Director, Labud Bulatovic – former Mayor of Belgrade...Serbia's equivalent of Boris Johnson! His team included Event Director, Rudi Hodzic and Vojislav Ivanovic, Goran & Stanislava Timotijevic... 'Stash' serving brilliantly as Contest Secretary.

Range Safety Officer was Slobodan Maksic. Brilliant then, *Vazduhoplovni savez Srbije* lucky to have this level of support on the ground. Thanks were forthcoming from all the entry.

Just super to share the airspace with other airsport activities over the weekend. gliding, parascending, parachuting/skydiving and general light aviation; superb. Cooperation throughout the weekend just brilliant. The FAI Jury of Ion Guzu (ROM) – Scale Judge at the World Champs, Joze Cuden (SLO) – World S1B-Altitude Champion and Srdjan Pelagic (SRB), really had little to preside over. In fact, it is hard to think of another World Cup, which could boast a higher level of Officials. When all was safely gathered in, we were housed in *Hostel Zeleznice* (Railway..), in Belgrade which provided relief and succour.

For your reporter, the end of a very demanding ten days. First, as FAI Scale judge at the 18th World Space Modelling Championships ~ Seniors & 9th World Space Modelling Championships ~ Juniors, followed up by a transit to the 9th Belgrade Cup to do yet more! '*Loggi the Judge*' won some plaudits for finding Wojciech Krzywinski's *Ariane* main body, 'lost' in the corn, after Team Poland had rummaged for some thirty minutes – I have my uses..

The chill out could begin! But first, *Singidunum* was the Roman settlement upon which Belgrade now stands. You reporter hales from *Aquea Sulis* – Bath – and always playing at home in the Balkans! A brief browse round Belgrade, supping *kafa i vinjak* whilst watching *OFK Beograd* play *Partizan*. And then down to *Zeleznica stanica*, to catch the train to Krsko, in Slovenija to stay with some friends. Some trip, Thank You, Labud Bulatovic..

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Editor's note.. Builder of the Model?!? But there's just one downside, a real concern. Juniors are juniors and less capable than their senior counterparts...obvious. The standard of models in S5B-Scale Altitude and more specifically juniors' S7-Scale, both in terms of degree of difficulty and construction and finish was astonishing. As judge, it was impossible to imagine entrants – one or two sub-teens – putting together such projects. Some juniors had parents in the senior ranks at the 'Champs and the question must be asked, "how much input did these kids really have?!?" Bluntly, it's strategic cheating and without proof, judges can do nothing...but it deters novices taking up these classes. The results reflected these worries; I felt culpable. Possibly a first step would be to have the junior entrants prepare their own scale models for flight - without adult supervision - under the eye of a judge. If unable to do this, then they were surely unable to have constructed the model in the first place...and DQ!

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OBITUARY

MIKE DORFFLER

ESTES' GREATEST INNOVATOR

THIS is a tribute to one of the finest brains Model Rocketry-Space Modelling has ever produced. Mike Dorffler was responsible for so much – notably the *Cineroc* rocket-boosted movie camera – but his influence touched virtually everything else Estes produced. Mike also spent some time with Apogee Rockets, making similar contributions. In recent times, Mike has been

diagnosed with malignant pancreatic cancer and departed this life on 7th September 2010.

Just twenty one years old when he was hired to work at Estes Industries. He went on to become a valued employee and loyal friend for about 40 years. On behalf of the National Association of Rocketry, Estes Industries co-founder Vern Estes, recently presented the first *Lifetime Achievement Award for Rocket Design* to Mike Dorffler, who was hired to design products for Estes in the mid-1960s. Estes are indebted to Dorffler for his contributions, "*noting that his work ethic and unique approach to product creation allowed him to make a lasting imprint on the model rocketry hobby,*" a press release said.

Dorffler leaves a legacy of his knowledge and skills, which ranged from photography, electronics, rocket design, drafting, scale modelling, package layout and design, rocket propellants, motor design, radio control model airplanes and much more. "*I want to recognize and thank you for your extraordinary contributions to our hobby through your work as the longest-serving and most prolific rocket designer at the world's largest model rocket company..*" , said NAR President Trip Barber in a recent press release. "*..Your creative design skills and your ability to translate this creativity into more than 250 successful mass-produced kits, plus a wide range of other products have shaped our hobby for more than 42 years. When those of us who have been in the hobby for many years reflect on the greatest products ever introduced, the names of your creations are always at the top of the list — from the Cineroc to the Astrocam to the Alpha III. America likes to fly what you have designed.*"

His involvement with Estes Industries came about after he had an idea to develop a product called *Cineroc*, said Estes, who co-founded *Estes Industries* along with wife, Gleda. "*The*

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Cineroc was a Super 8 format movie camera, which [filmed the] launching of the rockets”, he said. Recently, Estes reminisced about the initial job interview with Dorffler, who had written about it in Ye Olde Rocket Forum. “My first interview with Vern nearly did not happen..”, Dorffler wrote. “After Vern had asked me to speak with him about developing my camera for Estes, my wife and I made the drive from Nebraska over one afternoon”. Arriving at the plant the next morning at 9am, as per the agreement, he sat in the lobby for an hour, waiting for Estes to get off the phone. “I was 10 minutes from getting up and leaving”, Dorffler wrote. “I told the wife maybe we should just go on down to Phoenix instead.”. Even though he was irritated, he couldn’t help but notice that “Vern was a gentleman”, Dorffler said. “I think I was probably already hired before I showed up at the interview because he asked if I could move my family and start work in about two weeks”. After filling a questionnaire out with such questions as how much beer he drank per week, that was the end of the interview.

From then on, Dorffler worked closely with Estes and later with the new owners after Estes Industries was sold. Dorffler, who now is 64, had planned to retire so he could go fishing when he was diagnosed with advanced pancreatic cancer. Mike's one great love, besides rocketry, was wife, Vickie. Our thoughts and prayers are with her.

Editor’s note.. *I met Mike Dorffler whilst in the United States in 1992. At the time, I had virtually no knowledge of his mega-contribution to Model Rocketry. The Obituary puts all this into perspective. We have lost an all-time Great.*

That’s enough! ...time to go!
SOME ISSUE!?! The 18th WSMC ~ Seniors and 9th WSMC ~ Juniors, really epitomised the kind of year 2010 has been...BRILLIANT!

Before we wind up, a mini-gem arrived from *Southern England Rocket Flyers* (SERFs). Not so much the land of make believe, as the continent of reality...what us fellas know. Here we go:

Once upon a time, a Prince asked a beautiful Princess... "Will you marry me?"

The Princess said.. "NO!"

..And the Prince lived happily ever after and rode motorcycles and went fishing and hunting and played golf and dated women half his age and drank beer and whisky and had tons of money in the bank and left the toilet seat up..

The End

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One vital thing before we go..

32nd Ljubljana Cup ~ Kamniska Polygon, Slovenija.

8-10th October 2010-09-21 !!

Go to www.komarov.vesolje.net for contact details. This promises to be a truly great World Cup Finale. Remember, interspace.. *Space Modeller of the Year* is still up for grabs and the World Cup rankings in a state of flux. See the Christmas issue for full details. Best wishes.

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