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Editorial Just gets better and better!! Check out the massive World Cup array below, the size of entry and the standard of flying and it all adds up to Cloud 9! Significant too, another country entered the World Cup roster – MOLDOVA! Congratulations to *Ion Matveichuc*, who became the first competitor to represent his homeland, at Murmansk's Polar Cup.

Crucially though – and for the first time – we have the International Rocketry Challenge (IRC) Finals from the Farnborough International Airshow. Teenagers from the USA, France and the UK lofted eggs to prescribed altitudes and flight durations. Just like the novel S2/P-Payload rules for FAI Space Modelling. It is very healthy to be able to record that in the USA alone, the Team America Rocketry Challenge has attracted some 60,000 young people in event all over the North American continent. Plenty of evidence to suggest that this is being mirrored in other countries too – some 65 school in the UK participated in the UKAYRoC series this year alone. It was a shame that only three Teams contested the IRC this time, Canada lost their sponsorship and Japan couldn't come as it was at a difficult time in the school year. This payload class is really catching imagination...lots of different shapes of airframe seem to work equally well. Lots of different propellant selections too and nice that many of these come from the High Street.

Plenty more in this issue too, but it's really about World Cups, World Cups and yet more World Cups!! No need for me to write any more words here, over to the real world!

Aerospace Industries Association (AIA), GFAS and ADS Group Ltd proudly present..

International Rocketry
Challenge 2012 ~ Farnborough
International Airshow: 12-14
July '12...MAGIC!!

FARNBOROUGH was going to be BIG for your Editor this year. In the wake of the UKAYRoC Finals in June, he was called to be Range Safety Officer at the International Rocketry Challenge (IRC), featuring teams from the United States of America, France and the United Kingdom. Sponsored generously by Aviation Industries Association (AIA), ADS Group Ltd and GFAS, this event has proven to a stellar success over the last few years. There were to have been teams from Canada and Japan, but lack of sponsorship on the one hand and a difficult time in the school year sadly ruled this out.

IRC...what's it all about? Objectives:

Boosting a fragile payload – 2 hen's eggs

Target Altitude – 244m / 800 feet

Target Duration – 43 to 47 seconds

Simply, if you are higher or lower than 800 feet, you

Simply, if you are higher or lower than 800 feet, you lose points; early or late on arrival, you lose points, Zero is the optimum score. Break the egg(s) and it's a DQ..

Conditions would be challenging, with the weather we'd endured in the UK for many weeks. Your Editor

was working with Elizabeth Donnelly of *ADS Group Ltd*, John Hochheimer of the NAR and Anne Ward of *AIA*. Some disappointment was expressed when the decision was taken to relocate to nearby Queen's Parade sports ground, from 'airside' at the show...tho' as RSO, I was much happier! All teams set up and flew competently in gusty conditions, Team UK not quite right, a turbulent boost and the egg capsule hitting a fence on the way back. Team France performed admirably, as did Team USA...and the tension was building as the officials punched calculators and checked the Eggs. 2012's result is shown... expect more in the next issue:

1 Team France
2 Team USA
3 Team UK

Lycee Desmetiers Louis Bleriot
Madison West, Wisconsin
The Perse School, Cambridge

...Team UK broke an egg on the fence! The top two were close and plaudits to *Lycee Desmetiers Louis Bleriot* ..Vive la France!!

Naturally too, the IRC was yet another trial of the proposed S2/P-Payload rules. Well Done to all concerned.

Buzau Cup 2012 ~ *Buzau-ROM* : 25-27 May '12...Cool!

ROMANIA is never slow at coming forward and their latest World Cup was magic. Russia, Serbia, Bulgaria and the hosts came to the rampa and performed brilliantly in conditions far from perfect. Podiums:

S4A-Boost Glider World Cup (24 starters)

1 Daniel MANOLACHE
2 Valentin SAVOV
3 Gennady POLTAVETS

S6A-Streamer Duration
1 Zoran KATANIC
2 Marian KRAUSE
3 Nikolae RADU

ROM 135 160 180 = 475s
BUL 180 150 140 = 470s
RUS 180 97 180 = 457s
RUS 180 111 166 = 457s
ROM 92 180 180 = 452s
ROM 67 135 180 = 382s

S9A-Gyrocopter Duration World Cup (30 starters)

1 Gennady POLTAVETS RUS 180 180 180 = 540+228s 2 Valentin SAVOV BUL 180 180 180 = 540+146s 3 Dorin TODOROV POL 180 157 180 = 515s

S7-Scale World Cup (7 starters)

1 Zivan JOSIPOVIC SRB *Saturn 1B* 780+91 = 871pt 2 Gika CONS'ESCU ROM *Ariane* 3 743+101 = 844pt 3 Gabi CONS'ESCU ROM *Ariane* 44LP 449+67 = 655pt

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

1 Victor PRICOP ROM

1000 1000 1000+ 961 =3961pt

2 Vladimir CIPCIC SRB

971 1000 962+1000 =3933pt

3 Angel TODOROV ROM

955 965 989+ 978 = 3887pt

The FAI Jury comprised Ion Guzu (ROM), Rumiana Lekova (BUL) & Nicolae Maxim (ROM). CD was Lucian Sercaianu (ROM) who did just brilliantly, as did Ionuf Brianza aas RSO. S7-Scale was competently judged by Dan Popa, Florica Sercaianu & Dragos Otelia (all ROM). This one was a real corker!! Well Done!

Cup of Krakow 2012 ~

Krakow-POL: 2-3 June '12...Massive!

SO MANY World Cups are in the mixer, vying to be the biggest and best! Poland has fantastic traditions and this year's event at the *Sports Airfield Aero Klub Krakow* was a beauty. Organisers, *MTSR Sowiniec Krakow* deserve great credit for laying on yet another 'leviathon'. Let's have some podiums:

S4A-Boost Glider World Cup (38 starters)

1 Konrad WIERBICKI POL 151 180 180 = 511s 2 Konrad ZYGMUNT POL 124 145 180 = 449s 3 Jaromir CHALUPA CZE 157 132 135 = 424s

S6A-Streamer Duration World Cup (56 starters)

1 Szymon BYRTEK POL 180 64 175 = 419s 2 Wladislav STAROBAT POL 100 135 180 = 415s 3 Sebastian SZULC POL 103 111 180 = 394s

S9A-Gyrocopter Duration World Cup (44 starters)

1 Sebastian SZULC POL 180 154 157 = 491s 2 Anton BIERNACKI POL 169 163 149 = 481s 3 Mateusz DYBA POL 85 171 180 = 436s

S7-Scale World Cup (11 starters)

1 Michal BORROWSKI POL *Meteor-1* 565+61 = 626pt 2 Grzegorz GORYCZKA POL *Meteor-1* 551+63 = 614pt 3 Mateusz KORMANSI POL *Meteor-1* 561+30= 591pt

S8D-R Rocket Glider *Juniors* (11 starters)

1 Boris CESNEK SVK 360 307 360 = 1027s 2 Szymon BYRTEK POL 340 360 325 = 1025s 3 Maciej PODOLSKI POL 212 360 360 = 931s

S8E/P-RC Rocket Glider World Cup (16 starters)

1 Peter MATUSKA SVK

998 1000 1000+ 966 =3964pt

2 Eduard WOWRY POL

1000 925 923+1000 =3848pt

3 Wojciech BORROWSKI POL

958 928 929+ 778 = 3593pt

The FAI Jury comprised Jan 'Mr Zero' Maixner (SVK), Lubomir Jurek (CZE) & Jerzy Kolodziej (POL) and CD Tadeusz Kaprzycki (ROM)...Magic! The sweet & succulent Ewa Dudziak-Przybytek was RSO and got all the calls right. The S7-Scale hall was managed by Andrzej Sawicky, Antoni Opoczka & Michal Filas (all POL). Some nice models...being saved for the World Champs?!? But this event was magical and Well Done to all concerned.

Polar Cup 2012 ~ *Murmansk-RUS* : *31 May* – *3 June '12*

by **Srdjan Pelagic**

CONGRATULATIONS to Valentina Burgiy and her associates for the successful organisation of this event in the Arctic Circle and for distributing documentation, in good time and correctly prepared. Valentina was the *Event Director* [also called, Contest Director – Ed] for the Polar Cup. Here

is just one more *Lady* in a vital and responsible position in our activity.

Well Done to all winners and participants for their sports successes. Great participation, we had teams from Kazahkstan, Ukraine, Russia, Uzbekistan and *Moldova*. I will take the opportunity to welcome Moldova's *Ion Matveichuc*, who became the first entrant from his country at a World Cup. We hope there will be many more competitors from Moldova in forthcoming events.

S4A-Boost Glider World Cup (17 starters)

S6A-Streamer Duration World Cup (33 starters)

1 Igor VOLKANOV RUS 150 161 153 = 464s 2 Oleg VORONOV UKR 176 91 114 = 381s 3 Dmitri ZOLIN RUS 180 96 98 = 374s

S7-Scale World Cup (6 starters)

1 Anastasia IBRAGIMOVA UZB

Nike Cajun 423 + 109 = 532pt

2 Alexandr LASHKO UKR

Taurus Tomahawk 411+104 = 515pt

3 Olexandr ZAGORODNY UKR

Black Brant 452 + CE= 452pt

S8E/P-RC Rocket Glider World Cup (10 starters)

1 Anatoly ZEMLYANUKIN RUS

984 1000 1000 + 993 = 3977pt

2 Grigory SERGIENKO RUS

884 969 1000 +1000 = 3853pt

3 Sergei BOLSHAKOV RUS

 $1000\ 1000\ 746 + 775 = 3521$ pt

Cracker! Well Done, Murmansk Region Sports Federation for setting up a marvellous World Cup on the Arctic Circle. Key players included, CD Valentina Bugriy, Sports Director, Andrey Bausev and RSO Oleg Gubrik. The FAI Jury of Igor Volkanov (UKR), Vladimir Minakov, Alexei Koriapin & Oleg Krasnov (all RUS) had little to rule on. Lovely weather, never got dark, just a bit cold in the mornings...probably those icebergs!

Stip Cup 2012 ~ *Stip-MKD* : 9-10 *June '12...Magic!*

MACEDONIA is becoming one the best venues for Space Modelling competition in Europe. Stip is a magical venue because of its predictable climate and consistent wind direction. The recent World Cup was a cracker, attracting teams from Bulgaria, Russia, Russia, Serbia and the hosts. Your editor was invited to Stip for this event – Thank You to the organisers, but work and domestic issues proved just too much. Let's have some podiums:

S4A-Boost Glider World Cup (20 starters)

1 Zoka KATANIC SRB 165 176 155 = 496s 2 Zika JOSIPOVIC SRB 172 169 159 = 492s 3 Plamen JORDANOV BUL 73 180 170 = 423s

S6A-Streamer Duration *World Cup* (34 starters)

1 Zoran ATANASOSKI MKD 88 144 180 = 412s 2 Zoka KATANIC SRB 112 106 156 = 374s 3 Vlada CIPCIC SRB 86 151 122 = 359s

S9A-Gyrocopter Duration World Cup (20 starters)

1 Nikolce JANSKI MKD 180 173 123 = 476s 2 Boris LEKOV BUL 180 180 112 =472s 3 Mihailo PETROVIC SRB 140 136 180 = 456s

S7-Scale World Cup (10 starters)

1 Zivan JOSIPOVIC SRB Saturn 1B 725+110 = 835pt 2 Miro STANCEVIC SRB Saturn 1B 640+170 = 810pt 3 Vlada CIPCIC SRB Ariane 1 618 + 80 = 698pt

S8E/P-RC Rocket Glider World Cup (7 starters)

1 Angel CONEV BUL

989 944 776 + 972 = 3681pt

2 Vladimir CIPCIC SRB

1000 795 1000 + 784 = 3579pt

3 Nikolai PEYCHEV BUL

726 1000 991 + 522 = 3239pt

The FAI Jury comprised Srdjan Pelagic (SRB), Anton Karakolev & Todor Manev (both MKD). CD was Stanisa Petrovic and RSO the legendary Georgi Geogievski (both MKD), both of whom played it superbly. S7-Scale judges were Nikola Cvjeticanin, Miodrag Cipcic (both SRB) and Stanisa Petkovic. Just super across the board.

12th Sirmium Cup ~ *Sremska Mitrovica-SRB* : 16-17 June '12...Seven up and SUPER!

AEROKLUB Sremska Mitrovica and Vazduhoplavni savez Srbije combined to put together a little beauty at Veliki Radinci. Seven countries — Serbia, Croatia, Slovenia, Russia, Romania, Italy and Bulgaria - came on line to produce a super event and CD Branislav Krcedinac is to be congratulated for his efforts. Enough...podiums:

S4A-Boost Glider World Cup (15 starters)

1 Radojica KATANIC SRB 180 180 180 = 540s 2 Plamen JORDANOV BUL 102 140 180 = 422s 3 Florica SERCAIANU ROM 120 120 180 = 420s

S6A-Streamer Duration World Cup (21 starters)

1 Zoran KATANIC SRB 107 180 180 = 467s 2 Gennady POLTAVETS RUS 180 97 31 = 308s 3 Luka VOLAROVIC SRB 150 80 66 = 302s

S9A-Gyrocopter Duration World Cup (17 starters)

1 Andrej NITU ROM 174 180 180 = 534s 2 Milan PETKOVIC SRB 150 145 159 =454s 3 Gennady POLTAVETS RUS 147 107 180 = 434s

S7-Scale World Cup (8 starters)

1 Vladimir CIPCIC SRB *Ariane* 1 610+ 80 = 690pt 2 Zivan JOSIPOVIC SRB *Bumper WAC* 555+ 96 = 650pt 3 Nikola BOROVAC SRB *T-Tomahawk* 520 +115 = 635pt

S8E/P-RC Rocket Glider World Cup (3 starters)

1 Angel TODOROV BUL

1000 1000 1000 + 946 =3948pt

2 Vladimir CIPCIC SRB

772 597 805 + 1000 = 3174pt

3 Zoran KATANIC SRB

362 570 318 + 458 = 1708pt

Srdjan Pelagic, Dragan Jevtic (both SRB) and Lucian Sercaianu (ROM) presided over one of the better World Cup events of 2012. CD Branislav Krcedinac was overjoyed with the two days and ably backed by RSO Slobodan 'Max' Maksic and assistant Branislav Krcedinac. The S7-Scale hall was managed by Nikola Cvjeticanin, ably assisted by Miodrag Cipcic (both SRB) & Angel Todorov (BUL). Super, this one was a classic example of how to set up, run and report a World Cup event.

Great Lakes Cup ~ Oswego, Illinois-USA: 23-24 June '12. Good one..

WELL DONE Pat Butler, for yet another super Great Lakes. Entries from India, Canada, Bulgaria and USA came together to produce a super compact World Cup event. Enough...podiums:

S4A-Boost Glider World Cup (16 starters)

1 George GASSAWAY USA 91 180 180 = 452s 2 Keith VINYARD USA 106 180 59 = 345s 3 Chris FLANIGAN USA 67 171 78 = 316s

S6A-Streamer Duration World Cup (12 starters)

1 Steve KRISTAL USA 57 72 56 = 185s 2 Emma KRISTAL USA 69 63 45 = 177s 3 Peter COOK CAN 46 42 88 = 176s

S9A-Gyrocopter Duration World Cup (11 starters)

1 Keith VINYARD USA 123 175 180 = 478s 2 George GASSAWAY USA 65 164 45 =274s 3 Rod SCHAFER USA 109 143 0 = 252s

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

1 Keith VINYARD USA

1000 959 936 + 978 = 3873pt

2 Ryan WOEBKENBERG USA

842 1000 1000 + 905 = 3807pt

3 George RIEBESHL USA

995 1000 785 + 1000 = 3780pt

S1A-Altitude *Juniors* (3 starters)

1 Jenna BUTLER	USA 27	1 374 = 374m
2 Steve KRISTAL	USA	369 = 369 m
3 Emma KRISTAL	USA	8 361 = 361m

S3A-Parachute (9 starters)

1 Chris KIDWELL USA 283 154 293 = 730s 2 Trip BARBER USA 180 77 180 = 677s 3 Keith VINYARD USA 100 239 72 = 411s

FAI Jury comprised Trip Barber, John Langford (both USA), plus Taras Tataryn (CAN). CD Pat Butler, RSOs Jim Filler, Matt Steele and Chris Kidwell oversaw a good one, near the Canadian border.

Gustaitis Cup ~ *Mariampole-LTU* : 29 *June* – 1 *July* '12. *A*

Baltic classic!

BALTIC Space Modelling is always pretty special...and this one was pretty big too. A startlist from Estonia, Latvia, Lithuania, Poland, Belarus, Slovakia and Russia guaranteed a really classic World Cup. Some good Juniors' action too. Congratulations to Maksim Timofejev and his associates for a successfully conducted event and to all winners and participants for their achievements and sportsmanship. Let's have some podiums:

S4A-Boost Glider World Cup (32 starters)

1 Aliaksandr LIPAI BLR 92 180 171 = 443s 2 Kiril STROKOV RUS 132 130 180 = 442s 3 Slavomir LASOCHA POL 105 120 180 = 405s

S6A-Streamer Duration World Cup (30 starters)

1 Maksim TIMOFEJEV LTU 180 131 94 = 405s 2 Mykolas TREIKAUSKAS LTU 162 101 89 = 352s 3 Slavomir LASOCHA POL 144 160 103 = 314s

S9A-Gyrocopter Duration World Cup (29 starters)

1 Maksim TIMOFEJEV LTU 167 180 180 = 527s 2 Mykolas TREIKAUSKAS LTU 180 130 180 = 490s 3 Slavomir LASOCHA POL 144 160 156 = 460s

S7-Scale World Cup (16 starters)

1 Jurgis STRAZDAS LTU Little Joe 640+ 70 = 710pt

2 Kristian SALUMAE EST Meteor-1 564+ 70 = 634pt

3 Egils VASARAUDZIS LAT Meteor-3 491 +115 = 606pt

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

1 Vladimir MINKEVICH BLR

1000 945 1000 + 1000 = 3945pt

2 Aurimas PETKEVICIUS LTU

852 972 983 + 848 = 3655pt

3 Aleksandrs OJAVERS LAT

789 1000 952 + 874 = 3615pt

The Junior classes were flown in parallel with the World Cup, with results as below:

S4A-Boost Glider: 1 Kiril STROKOV RUS); 2 Aurimas

PETKEVICIUS LTU; 3 Kyril ZHABRAVVES BLR **S6A-Streamer:** 1 Myko TREIKAUSKAS LTU: 2 Kiril

STROKOV (RUS: 3 Aleks LAVRUKIN RUS

S9A-Gyrocopter: 1 Myko TREIKAUSKAS LTU: 2 Dmitri

KONCHYK BLR: 3 Damil SHABRONSKY BLR

S8D-RC Rocket Glider: 1 Aurimas PETKEVICIUS LTU: 2 Maris BRAKOVSKIS LAT: 3 Oskars RAUDINS LAT Well run, this contest was seriously good and a credit to, CD Janina Karciauskiene (LTU), leaving the FAI Jury of Lubomir Jurek (SVK), Andrius Bukauskas ((LTU) and Gunas Putra (LAT), with but one protest to manage.

Brilliant Balkan Boogie ~

Dupnitsa-BUL.. 1st BALKAN CUP 30th June - 1 July '12 by The Editor

SPACE MODELLING in the Balkans has long been a culture, with Bulgaria traditionally one of the strongest players. Your scribe got the call to judge at this one early in 2012 and relished the opportunity to travel to Dupnitsa – the former Stanke Dimitrov, in Communist days – to join with old friends and adversaries from Klub IKAR. My first encounters with IKAR was at the *St Leonhard Modellraketen Festivals* in the late 1980s, in what was still West Germany. Travels were

Wizz Air from Luton into Sofia – arriving in the small hours – and whisked to Hotel 'Rila', in Dupnica, by Sotir Lazarkov...as easy as it reads.

There to judge S7-Scale with Kiril Kostadinov and Marin Georgiev (both-BUL), but soon found himself made FAI Jury President! ...linked with Georgi Katsarov and Vladimir Bachev (both-BUL). Georgi Georgieski (MKD) deserves thanks for being the alternate S7-Scale Judge, to keep FAI sweet! Weather prospects wonderful, so how did it all go...

S4A-Boost Glider World Cup

First up on Saturday morning, individuals from Bulgaria and Macedonia got ready to slug it out in the opening class of this novel World Cup. Major players looked like Georgi Georgieski, Stanisa Petrovic and Zoran Atanasoski (all-MKD), with Valentin Savov, Teodor Todorev and Plamen Jordanov fronting it for the hosts. A great series saw Zoran Atanasoski win by miles, leaving Plamen Jordanov and Boris Lekov scrapping for Silver and Bronze.

1 Zoran ATANASOSKI MKD 180 180 113 = 473s 2 Plamen JORDANOV BUL 160 131 92 = 383s 3 Boris LEKOV BUL 85 131 92 = 383s

S6A-Streamer Duration *World Cup*

A compact set – albeit containing a number of the World's best – went to the rampa to contest this classic. Form player undoubtedly Zoran Atanasoski (MKD), after his super victory in S4A-Boost Glider moments before. Quite the simplest class in Space Modelling, a superlight bird recovered under a pleated streamer, but quite the most fiercely contested. Contenders were sure to include Marijana Savova, Plamen Jordanov and Marija Somleva (all-BUL), chased hard by Macedonians Stanisa Petrovic and Georgi Georgieski...backed by the surprise package of Turks, Berk Ender Ozogren and Celil Atik. Scoring ebbed and flowed, with the temperature starting to sear...Zoran Atanasoski (MKD) relishing a second Gold, chased by Nikolay Peychev and Marija Somleva (both BUL). Well done.

1 Zoran ATANASOSKI MKD 112 125 125 = 362s 2 Nikolay PEYCHEV BUL 67 180 90 = 337s 3 Marija SOMLEVA BUL 59 69 173 = 301s

S9A-Gyrocopter Duration World Cup

This one just a bit tame by comparison, featuring but seven starters. Hard luck stories abounded, but no one could argue with Boris Levov's (BUL) sledgehammer performance. Compatriots, Marijana Savova and Plamen Jordanov could only stop and stare!

1 Boris LEKOV BUL 180 148 180 = 508s 2 Marijana SAVOVA BUL 0 148 180 = 328s 3 Plamen JORDANOV BUL 94 100 105 = 299s

S7-Scale World Cup

Different...nobody could remember a World Cup S7-Scale hall without an *Ariane*! A positive was that this event featured Juniors, flying models they'd researched and built themselves. Prototypes included, *GSLU-Mk1* – India's Satellite launcher – by Tomislav Skandaliev (BUL); *M3-MM* Satellite carrier, by father Hristofer. Dimitar Moralisky (BUL) entered a *Scud BS*, which looked sinister! ...and Teodor Todorov (BUL) featured a very attractive *Meteor-2* sounding rocket. Great to see the 'young Turk', Celil Atik, with a fairly swish *AGM-12B Bullpup* air-to-ground missile.

The Editor was Chief Judge, ably supported by locals, Marin Georgiev and Kiril Kostadinov. Static scrutiny was challenging, as none us had judged these prototypes previously and the scoring was close. The flights were all simple single-stagers, with Teodor Todorev paying dearly for a misfire, though his subsequent boost was good enough for the Bronze step. Father and son, Hristofer & Tomislav Skandaliev boosted their M3-MM and GSLU-Mk1 birds virtually identically, for the top-2 podium steps. Observation...none of us could remember an S7-Scale event where there were no DQs in the flights! Well done, Tomislav.

1 Tomislav SKANDALIEV BUL GSLU-Mk 1 544 + 60 = 604pt 2 Hristofer SKANDALIEV BUL M3-MM 536 + 54 = 590pt 3 Teodor TODOROV BUL Meteor-2 516 + 55 = 571pt

S8E/P-RC Rocket Glider Spot World Cup

Championship of Bulgaria?!? ...seemed that way, with no other nations coming to the rampa. Objective – to boost and fly for a prescribed time, followed by a spot landing on a tape. Points lost for being early or late and for missing the target. This should have been a good World Cup round, with the scoring ebbing and flowing throughout. Konstantin Ranov paid dearly for a mediocre opening shot, despite 'winning' the flyoff round. In the end, Angel Todorov, Nikolay Peychev and Kancho Kanev did enough for the podium.

1 Angel TODO	DROV		BUL	
-	979	1000	1000 +	783 = 3762pt
2 Nikolay PEY	/CHEV		BUL	
	1000	839	807 +	789 = 3435pt
3 Kancho KAI	ΝEV		BUL	
	527	729	955 +	954 = 3165pt

S3A-Parachute Duration

Funny, it's often only after the 'serious' World Cup business is over, do the flyers relax and really deliver! The startlist mimicked S6A-Streamer, but the scoring much higher, with the massive 300s max dominating proceedings. Once more, Hristofer and Tomislav Skandaliev, Teodor Todorov and Marijana Savova (all-BUL) found themselves in the mixer with Berk Ender Ozogren and Celil Atik (both-TUR). Very close podium...it squeaked!

1 Hristofer SKANDALIEV BUL 280 300 191 = 771s 2 Valentin SAVOV BUL 300 300 170 = 770s 3 Berk Ender OZOGREN TUR 130 300 300 = 730s Action Replay...Good, if a tad small. Maybe there are just too many World Cup events in nearby countries at this time of the season. Plaudits must go to Klub IKAR at Dupnitsa, with Konstantin Ranov, Hristo Lazarkov and Plamen Vasilev running the show. Range Safety Officer, Sotir Lazarkov got all the calls right and wins thanks for transporting your scribe to and from the event. It was great to judge S7-Scale with Marin Georgiev and Kiril Kostadinov, in a class that was really competitive. And it was Hot...very, very Hot, compared to conditions in England. Super then...

Vega Cup ~ Krsko - Zadovinek-SLO: 6-7July '12. Hot one in every way!

GOOD WORLD CUP...a credit to Contest Director, Marjan Jenko and the Jenko Mafia! Competitors from Slovenia, Craotia, Serbia and Great Britain...our own John Jacomb braved the 35 degree temperatures. Lots and lots of good flying in this one. Podiums:

S4A-Boost Glider World Cup (10 starters)

S6A-Streamer Duration	World Cup (19starters)
3 Marjan JENKO	SLO 123 110 120 = 353s
2 Vladimir CIPCIC	SRB 143 49 180 = 372s
1 Miodrag CIPCIC	SRB 93 143 154 = 390s

1 Miodrag CIPCIC SRB 180 104 117 = 401s 2 Vladimir CIPCIC SRB 129 79 172 = 379s 3 Zoran KATANIC SRB 107 0 113 = 220s

S9A-Gyrocopter Duration World Cup (8 starters)

1 Marjan JENKO	SLO 180 180 - = 360s
2 Radojica KATANIC	SRB 180 86 0 = 266s
3 Zoran KATANIC	SRB 107 0 113 = 220s

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

1 Mitja ZGAJNER SLO

829 1000 1000 + 1000 =3829pt

2 Tomaz STARIN SLO

1000 952 763 + 1000 = 3715pt

3 Matjan ZGAJNER SLO

329 0 0 + 502 = 831pt

S3A-Parachute Duration (8 starters)

1 Samo PERC	SLO 300 300 300 = 900s
2 Simon URBAS	SLO 300 300 117 = 717s
3= Drago PERC	SLO 0 300 300 = 600 + 360s
3= Matjan ZGAJNER	SLO 0 300 300 = 600 + s

FAI Jury made up of Andrija Ducak (SRB), Joze Cuden & Tone Sijanec (both SLO). CD was Marjan Jenko (SLO) and RS) Marjan Cuden. This was a good one.

Liepaja Cup ~ *Liepaja-LAT* : 7 -8 July '12. ABC!

ABC = ANOTHER BALTIC CLASSIC! Startlist from Estonia, Latvia, Lithuania, Slovakia and Russia set up a super World Cup. Congratulations to CD Indra 'where's my sand wedge' Bunka and the team from the Latvian Spacemodellers Sport Union and Liepaja Youth Technical Art Centre Podiums:

S4A-Boost Glider World Cup (21 starters)

	- · · r · · · · · · · · · · · · · · · · · · ·
1 Gennady POLTAVETS	RUS 180 149 180 = 509s
2 Jurgis STRAZDAS	LTU 180 148 160 = 488s
3 Dainis IGNATOVICS	LAT 128 180 116 = 426s

S6A-Streamer Duration World Cup (27 starters)

1 Mykolas TREIKAUSKAS	LTU 126 106 177 =	409s
2 Jurgis STRAZDAS	LTU 113 107 118 =	338s
3 Dmitri KOROTIN	RUS 86 118 110 =	314s

S9A-Gyrocopter Duration World Cup (26 starters)

1 Gintarus JUCEVICIUS LTU 180 180 180 = 540s 2 Gennady POLTAVETS RUS 180 180 146 = 506s 3 Mykolas TREIKAUSKAS LTU 180 152 164 = 496s

S7-Scale World Cup (5 starters)

1 Jurgis STRAZDAS LTU *Little Joe* 646+ 85 = 731pt 2 Kaspars ROZE LAT *Nike Cajun* 579+ 83 = 662pt 3 Dainis IGNATOVICS LAT *Meteor-3* 4761 + 68 = 544pt **S8E/P-RC Rocket Glider** *World Cup* (**14 starters**)

1 Roberts BRIVNIEKS LAT

716 877 1000 + 926 =3519pt

2 Viesturs BERZINS LAT

1000 1000 573 + 905 = 3478pt

3 Kirill STROKOV RUS

727 751 803 + 1000 = 3281pt

Really good and a credit to all concerned. FAI Jury consisted of of Lubomir Jurek (SVK), Andrius Bukauskas ((LTU) and Arnis Baca (LAT). No protests, so easy as ABC...

11th Belgrade Cup ~ Lisicji Jarak-SRB : 14-15 July

AEROKLUB Franjo Kluz is well practiced at setting up good World Cups and this one was no exception. Vazduhoplavni savez Srbije chipped in generously and yet another Belgarde Cup was born. Countries competing were Serbia, Slovenia, Macedonia and Romania. Some good podiums:

S4A-Boost Glider World Cup (20 starters)

1 Tomislav ERDEG	SRB 178 180 160 = 518s
2 Vladimir CIPCIC	SRB 180 84 180 = 444s
3 Vesna KATANIC	SRB 128 134 173 = 435s

S6A-Streamer Duration World Cup (45 starters)

1 Zoran KATANIC	SRB 180 88 180 = 448s
2 Zoran ATANASOSKI	MKD 73 180 180 = 433s
3 Zivan JOSIPOVIC	SRB 180 104 127 = 411s

S9A-Gyrocopter Duration World Cup (12 starters)

- J I	
1 Zoran KATANIC	SRB 126 180 180 = 486s
2 Mihailo PETROVIC	SRB 180 140 132 =452s
3 Branislav KRCEDINAC	SRB 180 180 - = 360s

S7-Scale World Cup (17 starters)

1 Zivan JOSIPOVIC SRB *Saturn* 1B 765+ 68 = 833pt 2 Vladimir CIPCIC SRB *Ariane* 1 695+ 70 = 765pt 3 Luka VOLAROVIC SRB *Bumper no* 7 620+73 = 693pt

S8E/P-RC Rocket Glider World Cup (3 starters)

1 Vladimir CIPCIC SRB

1000 977 1000 + 982 = 3959pt

2 Mitja ZGAJNER SLO

655 1000 904 + 1000 = 3559pt

3 Matjan ZGAJNER SLO

445 CE + - = 445 pt

Srdjan Pelagic, Andrija Ducakc (both SRB) and Lucian Sercaianu (ROM) presided over a super World Cup in conditions of high temperature and low wind. RSO Slobodan 'Max' Maksic did well throughout and S7-Scale was judged by Nikola Cvjeticanin, Miodrag Cipcic (both SRB) & Lazo Djeordjievski (SRB). Good one.

World Cup ~ latest placings... following the 11th Belgrade Cup!! by Srdjan Pelagic

SEVERAL changes in the leading positions. A very pleasent surprise is Zoran Atanasoski from FYR Macedonia who sits in 1st position in S6A. Zoran rejoins Space Modelling after many years, but becomes dominant in three classes, S4A, S6A and S7...cool! Now he is a 'torch of Space Modelling' in his country and Southern Europe. He unseated Zoran Katanic (SRB) from the leader's position in S6A and is leading 355 competitors, from 25 countries.

Another "surprise" is the well-known Vladimir Cipcic (SRB), breaking through into the top-3 places in three classes...S4A, S7 and S8E/P. Prof Gennady Poltavets (RUS) holds his positions in S4A (2) and S9A (1). He is a competitor with the greatest participation in World Cup events this year - entering successfully, EIGHT events in three classes S4A, S6A and S9A...and he does everything with no assistance of other people.

Big surprise in S7, is Wojciech Krzywinski (POL), a top S7-Scale modeller, entering but one event in 2012 and has not reappeared; just like Bedrich Pavka (CZE). Friends, we are looking for more successful flights.

In S8E/P a new power are Angel Tsonev Todorov (BUL) and Vladimir Minkevich (BLR), with Vladimir Cipcic competing for top positions. Mitja Zgajner (SLO) who was practically with no competition since last year, is quickly trying to rejoin the leading players.

An additional comment is - we are missing many well known competitors in S7 and S8E/P,

but there are seven more competitions to the end of the season and probably they will reappear. In general, 2012's events are not so well attended as last years. Let's improve it.

S4A-Boost Glider

1 Zoran Katanic	SRB	326pt
2 Gennady Poltavets	RUS	310pt
3 Vladimir Cipcic	SRB	298pt
4 Zivan Josipovic	SRB	296pt
5 Slawomir Lasoscha	POL	279pt
S6A-Streamer Duration		-
1 Zoran Atanasoski	MKD	335pt
2 Zoran Katanic	SRB	332pt
3 Aleksandr Koslov	CZE	320pt
4 Vladimir Cipcic	SRB	316pt
5 Zivan Josipovic	SRB	289pt
S7-Scale		
1 Kiril Strokov	RUS	156pt
2 Vasil Pavljuk	SVK	152pt
3 Danil Shabronsky	BLR	151pt
4 Andrei Surhinevich	BLR	143pt
5 Michal Borrowski	POL	110pt
S8E/P-RC Rocket Glider		
1 Vladimir Cipcic	SRB	314pt
2 Andrej Todorov	BUL	313pt
3 Vladimir Minkevich	BLR	290pt
4 Eryk Jaszkim	POL	274pt
5 Mitja Zgajner	SLO	271pt
S9A-Gyrocopter Duration		
1 Gennady Poltavets	RUS	325pt
2 Gintorus Jucevicius	LTU	319pt
3 Mykolas Treikauskas	LTU	304pt
4 = Boris Lekov	BUL	294pt
4 = Maksin Timofejev	LTU	294pt

Editor's note.. This is looking pretty juicy and sure to get even better once the results of the next set of World Cups comes in. Then there's the World Champs and the run-in to Ljubljana...wow!

Jason on Scale.. just another one from our regular columnist by Jason Wentworth

ANOTHER super piece and some unusual stuff featured. Even with global communications at an all-time high, we still seem to know little about Korea, be it North or South, Off we go:

South Korean-made 1/144th scale plastic model kits of the KARI - Korea Aerospace Research Institute - *Naro-1* satellite launch vehicle see:

http://en.wikipedia.org/wiki/Naro-1

...are available on eBay. see:

http://www.ebay.com/itm/Asem-Hobby-Korea-Space-satellite-Rocket-NARO-Aero-Military-Plastic-Model-

/180800661348?pt=LH_DefaultDomain_0&hash =item2a188f2764

...for \$15.99 each, which includes 'free' shipping to the USA - similar rates may be available to Canada and the UK. This model might make a good PMC - Plastic Model Conversion - model rocket contest entry. At 1/144th scale, it is approximately 9" (250mm) long and 0.825" (20mm) in diameter. It has two opposing fins - or fin-like appendages - perhaps for venting excess propellants? Add two additional clear plastic fins at 90 degrees to the existing ones to make the model aerodynamically stable.

In addition, I found scale data on several South Korean sounding rockets (as well as their *Naro-1* satellite launch vehicle). Here it is:

The rocket next to the South Korean *Naro-1* SLV in this *Naro-1* article photograph see: http://en.wikipedia.org/wiki/Naro-1

...is a KSR-III see:

www.globalsecurity.org/space/world/rok/ksr.htm
...This simple, pressure-fed LOX/kerosene
rocket - which was successfully test flown in

rocket - which was successfully test flown in 2002 - was intended to be a common rocket module for a microsatellite launch vehicle, called KSR-IV, that would have resembled a miniature Titan IIIC see:

www.astronautix.com/country/korsouth.htm ...Here is a video see:

http://www.youtube.com/watch?v=wFuIMy9Tub ...of the KSR-III being launched. Unusually for a liquid propellant rocket, it was launched from an inclined, sounding rocket-like rail launcher! Also:

Before the KSR-III was built and flown, South Korea's space agency, called KARI (Korea Aerospace Research Institute, see:

www.kari.re.kr/eng/index.asp

...developed several smaller, solid propellant sounding rockets. The single stage *KSR-I* see: http://www.astronautix.com/lvs/ksri.htm

...could lift a 150 kg payload to an altitude of 75 km. *Rocketarium* see: www.rocketarium.com ...produces a scale model of the *KSR-420S* sounding rocket see:

http://www.globalsecurity.org/space/world/rok/ksr.htm

...and http://www.rocketarium.com/ksr420s.html
... which could carry a 30 kg payload to 75 km. The two-stage KSR-II, which used two KSR-I rocket motors in tandem, could boost the same 150 kg payload of the KSR-I to 160 km see: http://www.astronautix.com/lvs/ksrii.htm

...This "Space Program Republic of Korea" report see:

http://www.aprsaf.org/data/aprsaf12_data/day1/1 3_kari_ap12.pdf

...contains more information on South Korea's space program, including their sounding rockets.

Another day, another miss.. Having missed out on getting one of SpaceX's Falcon 9/Dragon scale model rocket kits that they sold through Amazon.com see: www.amazon.com/SpaceX-Falcon-Dragon-Flying-rocket/dp/B006GX14R8/ref=cm_cr_pr_product_t

...today I called SpaceX see: www.spacex.com ... to ask when the kits would be available again. The lady I spoke with told me that they have placed an order for another production run of the kits. She also added that she couldn't give me an estimate of when the kits will be available, but she said that while SpaceX will sell this new run of kits through Amazon.com - having sold my book through Amazon.com, I understand why, as Amazon.com handles all of the ordering & shipping process. SpaceX will eventually sell the Falcon 9/Dragon kits directly. When I suggested to her that the Falcon Heavy would also make a good scale model rocket kit, she confirmed that they are also thinking along those lines. Needless to say, all of this news made my day! In addition...I e-mailed a link - included below - to Gus' photographillustrated "Applying Sticky-Paper Body Tube Wraps" tutorial see:

http://forums.rocketshoppe.com/showthread.php ?t=10456

...to SpaceX. If they posted the link on their web site to help the builders of their kits, it would be great Public Relations for SpaceX, Gus, model rocketry in general, *and* our humble little "Ye Olde Rocket Forum."

I hope this information will be helpful.

Enough!! ..is enough and into the wind up

by the Editor

WOW...Yet another Big Issue, but in Space Modelling, there is just so much happening. We fronted up this issue with an account of the *International Rocketry Challenge*, from the Farnborough International Airshow, on 13th July 2012. Expect a bit more — the TV crew in attendance shot some good footage and the finished article was not ready when I decided to publish. Probably next time.

Now, the Editor must declare an interest in the final item.. Very soon, another 'historical book' on Space Modelling will become available. Full details not available yet, but the title is:

The **interspace..**Book of Space
Travels

By Stuart Lodge
Publisher ~ Traplet Publiscations

...it is to be hoped that many of you will want to buy a copy. The Editor's latest book contains many previously unrecorded facts about Space Modelling, dating from the early 1980s. This book is more about the people who have featured in FAI Space Modelling, than just rockets. It's about travels to unusual places, memorable experiences and how Space Modelling is rapidly evolving. Trust me...much more on this in the next issue. Oh yes, lots and lots of you feature in the pages! Time to go...happy reading