

The Journal of FAI Space Modelling
The British Space Modelling Association

Editor Stuart Lodge ~ 25 Huntingdon Drive
Castle Donington ~ Derby ~ DE74 2SR ~ UK
E-mail stuart.lodge1@ntlworld.com
Volume No. 2011/5 Issue No. 75 Autumn 2011

75

..means it's the
DIAMOND JUBILEE
edition of **interspace.. !!**

Editorial One day, I'll get sick of it and cry, "Enough..." But for now, not just another interspace.. but the 75th *Diamond Jubilee* edition! It seems so long – January 1997 was the very first issue of a short newsletter intended to update UK Space Modellers on what was happening around the World. Evolution has taken it to places never even envisaged – global Space Modellers have *demand*ed to be copied into the circulation list. What used to be a 'hard copy' paper publication, sent by 'snail mail' to a very limited readership, has become an email circulation list of hundreds. And that's not all, as many in this 'list post each issue on webpages that are read worldwide, by *THOUSANDS*...I am both flattered and humbled. Contributors are both plentiful and universal and I take the opportunity to say "Thank You.." to all who have chipped in a feature. Keep it up guys!

Nothing too revolutionary in this one: 13th *European Space Modelling Championships* takes pride of place, followed by (yet more..) World Cups. News of the new UK Estes importer – *Logic RC Ltd* and USA's Tom Campbell chips in with more on the S7-Scale debate. Changes at the top of FAI too...hey, who said there's nothing revolutionary in this one?!? Sadly, we have also a couple of Obituaries...both recipients very special to the Editor. And a World Cup in Croatia... *1st Fenix Cup* comes online, at Vincovci!

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13th European Space Modelling Championships for Juniors & Seniors ~ 20-27th August 2011 - Buzau, Romania

CONGRATULATIONS to the *Modelling Federation of Romania*, for a well executed event. Poland, Russia, Romania, Slovakia, Macedonia, Slovenia, Latvia, Bulgaria, Italy & Spain made up the nations. CD Ion Guzu; FAI Jury of Srdjan Pelagic & Arnis Baca & Marius Conu + RSOs Andrija Ducak, Georgi Georgieski & Ioan Botusan did really well. Apologies for the 'bare' data shown below, the FAI Jury report not yet received:

S1A-Altitude Junior	S1A Junior - Team
1 st Radek Nemec SVK	1 st Serbia
2 nd Nica Alexandru ROM	2 nd Romania
3 rd Vesna Katanic SRB	3 rd Russia
S1B-Altitude Senior	S1B Senior - Team
=1 st Vladimir Menshikov RUS	1 st Russia
=1 st Joze Cuden SLO	2 nd Slovenia
3 rd Pavel Krasnov RUS	3 rd Romania
S3A-Parachute Junior	S3A Junior - Team
1 st Mariyana Savova BUL	1 st Spain
2 nd Jordi Lopez ESP	2 nd Bulgaria
3 rd Miroslav Petrovic SRB	3 rd Lithuania
S3A-Parachute Senior	S3A Senior - Team
1 st Sebastian Szulc POL	1 st Bulgaria
2 nd Drago Perc SLO	2 nd Poland
3 rd Angel Tz. Todorov BUL	3 rd Russia
S4A-Boost Glider Junior	S4A Junior - Team
1 st Szymon Byrtek POL	1 st Poland
2 nd Andrey Kashkin RUS	2 nd Russia
3 rd esna Katanic SRB	3 rd Serbia
S4A-Boost Glider Senior	S4A Senior - Team
1 st Krzysztof Przybytek POL	1 st Serbia
2 nd Slawomir Lasocha POL	2 nd Poland
3 rd Zoran Katanic SRB	3 rd FYR of Macedonia

S5B-Scale Altitude Junior	S5B Junior - Team
1 st Vladislav Verstov RUS	1 st Russia
2 nd Alexandru Nica ROM	2 nd Romania
3 rd Andrey Kashkin RUS	3 rd Serbia
S5C-Scale Altitude Senior	S5C Senior - Team
1 st Marcin Bielecki POL	1 st Poland
2 nd Constantinescu Gabi ROM	2 nd Romania
3 rd Nica Ovidiu ROU	3 rd Russia
S6A-Streamer Junior	S6A Junior - Team
1 st Mihajlo Petrovic SRB	1 st Russia
2 nd Luka Volarevic SRB	2 nd Serbia
3 rd Mateusz Dyba POL	3 rd Poland
S6A-Streamer Senior	S6A Senior - Team
1 st Leszek Malmyga POL	1 st Poland
2 nd Jurgis Strazdas LTU	2 nd Russia
3 rd Anatoly Zemlyanukhin RUS	3 rd Lithuania
S7-Scale Junior	S7 Junior - Team
1 st Mihalcea Radu ROM	1 st Romania
2 nd Dejan Stancevic SRB	2 nd Serbia
3 rd Constantinescu Mihai ROM	3 rd Poland
S7-Scale Senior	S7 Senior - Team
1 st Aleksandr Levykh RUS	1 st Russia
2 nd Constantinescu Gabriel ROM	2 nd Romania
3 rd Vladimir Tarasov RUS	3 rd Poland
S8D-RC R'ket Glider Junior	S8D Junior - Team
1 st Roman Svec SVK	1 st Slovakia
2 nd Eryk Jaskin POL	2 nd Poland
3 rd Patrik Ivaska SVK	3 rd Russia
S8E/P-RC R'ket Glider Senior	S8E/P Senior - Team
1 st Aleksandrs Ojavers LAT	1 st Slovakia
2 nd Pawel Janisiewicz POL	2 nd Russia
3 rd Tomaz Starin SLO	3 rd Slovenia
S9A-Gyrocopter Junior	S9A Junior - Team
1 st Vesna Katanic SRB	1 st Russia
2 nd Vladislav Verstov RUS	2 nd Serbia
3 rd Alexsei Liuty RUS	3 rd Lithuania
S9A-Gyrocopter Senior	S9A Senior - Team
1 st Maksim Timofejev LTU	1 st Lithuania
2 nd Antonio Mazzaracchio ITA	2 nd Russia
3 rd Sergey Romanyuk RUS	3 rd Bulgaria

Editor's Note.. Another year, another Major Championships! Who judged Scale then???

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Bratislava Cup.. 3-5 August 2011 ...Partizanske-SVK. A throwback to the great days!

CONGRATULATIONS to Marian Jorik and his associates for a well organised event and for getting this traditional event back into the World Cup calendar. Entries from Poland, Latvia, Russia, Czech Republic and Slovakia made this one special.

S4A-Boost Glider World Cup (14 starters)

- 1 Krzysztof PRZYBYTEK POL 132 147 155 = 434+141
- 2 Jakub JARUS POL 180 74 180 = 434 +93s
- 3 Jan SEBESTA CZE 180 156 62 = 398s

S6A-Streamer Duration World Cup (22 starters)

- 1 Jan SEBESTA CZE 180 86 134 = 400s
- 2 Konrad WIERBICKY POL 86 165 108 = 359s
- 3 Jaraomir CHALUPA POL 180 66 102 = 329s

S7-Scale World Cup (10 starters)

- 1 Wojciech KRZYWINSKI POL *Ariane 3*
668 + 107 = 775pts
- 2 Bedrich PAVKA POL *Ariane 44LP*
663 + 95 = 758pts
- 3 Jan SEBESTA CZE *Sonda S1-2*

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

- 1 Eduard WOWRY POL
1000 1000 1000+960 = 3960pts
- 2 Krzysztof PRZYBYTEK POL
980 1000 660+930 = 3570pts
- 3 Petr DUBINA CZE
780 400 810+940 = 2930pts

S9A-Gyrocopter World Cup (17 starters)

- 1 Szymon BYRTEK POL 180 155 138 = 473s
- 2 Jaroslav CHMELIK CZE 110 180 180 = 470s
- 3 Konrad WIERBICKI POL 180 157 116 = 453s

I wish also to inform you that our good friend Ing. Marian Jorik, who was Space Models World Cup Coordinator from its very beginning, to September 2007. Marian retired from his position of Secretary General of *Zvaz Modelarov Slovenska*, from 1st

August 2011. We wish him good health and to enjoy his pension for many, many years. Marian contributed very much to space modelling and especially World Cups. He started with S6, S7 and S8E this kind of competition and after more than 10 years he added to two new classes S4 and S9. During the long period of competitions duration classes have changed from B to A and S8E became S8E/P, but Space Modelling World Cups gained in popularity and participation constantly increased. Marian's greatest contribution was finding a sponsor devoted to Space Modelling - *Misiak* from Banska Bistrica (Slovakia) which donated cups for the most attractive World Cup classes for many years. These awards attracted many top space modellers to start flying World Cups.

On behalf of you all, I wish to say... "*Many thanks to you Ing. Marian Jorik, for everything you have done for space modelling in your country and in the world. We hope you shall stay with us in future too - as a volunteer..*"

Good one...and great to have Bratislava back in the fold. FAI Jury comprised Lubomir Jurek (SVK), Vera Pavkova (CZE) & Jan Meciari (SVK)...not much to do. RSO was Jan 'Mr Zero' Maixner (who'd have guessed!?) and credit must go to CD Dr Jana Jorikova who did brilliantly! This Editor posts his regret that he has never attended the Bratislava Cup series...maybe 2012!?!?

Slovak Cup.. 6-7 August 2011- Partizanske-SVK. Hot on the back of Bratislava..

SUPER! This one was good and followed hot on the heels of Bratislava. Participation mirrored the capital's World Cup...Poland, Latvia, Russia, Czech Republic and the Hosts. *Zvaz Modelarov Slovenska* and *RMK Partizanske* did superbly. ..Let's see those podiums:

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S4A-Boost Glider World Cup (23 starters)

1 Boleslav VECERA SVK 180 180 180 = 540s
2 Vaclav KRUTA CZE 163 117 120 = 400s
3 Dmitri KOROTIN RUS 0 180 180 = 360s

S6A-Streamer Duration World Cup (30 starters)

1 Antoni BIERNACKI POL 96 155 151 = 402s
2 Jozef PREKOP SVK 127 170 58 = 355s
3 Jaroslav CHMELIK CZE 169 96 78 = 343s

S7-Scale World Cup (12 starters)

1 Marek PAVKA CZE *Ariane 44LP*
737 + 90 = 827pts
2 Jan SEBESTA CZE *Sonda S1-2*
515 + 155 = 672pts
3 Wojciech KRZYWINSKI POL *Ariane 3*
658 + CE = 658pts

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

1 Stefan TURZA SVK
1000 1000 1000 + 1000 = 4000pts
2 Wojciech BOBROWSKI POL
1000 956 973 + 951 = 3880pts
3 Eduard WOWRY POL
704 1000 1000 + 905 = 3609pts

S9A-Gyrocopter World Cup (26 starters)

1 Vaclav KRUTA CZE 74 161 144 = 372s
2 Milan JAVORIK SVK 180 78 110 = 368s
3 Krzysztof PRZYBYTEK POL 57 124 180 = 361s

A little honey! Well done to all concerned in the organisation of this splendid World Cup. The Editor send his apologies to Jozef Jasso, who invited him to attend. But a vital birthday meant domestic commitments – sorry Jozef...next year!?! The FAI Jury – just like Bratislava - Lubomir Jurek (SVK), Vera Pavkova (CZE) & Jan Meciár (SVK), again...not much to do. RSO was again Jan Maixner. Credit to CD Janka Kajinova and all the others in RMK Partizanske.

OBITUARY

DARRELL MOBLEY

BY MANUEL MEJIA

DARRELL MOBLEY, EDITOR AND CHIEF OF *ROCKETRY PLANET.COM*, PASSED AWAY RATHER SUDDENLY, FOLLOWING A SHORT ILLNESS. *ROCKETRY PLANET* STAFF AND MANY OTHERS ATTENDED HIS FUNERAL, NEAR JACKSONVILLE, IN AUGUST 2011.

DARRELL MOBLEY PLAYED A MAJOR ROLE IN GETTING *ROCKETRY ONLINE* STARTED IN THE 1990S, IN ADDITION TO THE CONTEMPORARY *ROCKETRY PLANET*. DARRELL WAS A KEEN ADVOCATE OF HIGH POWERED ROCKETRY (HPR) AND COVERED THE TOPIC VERY THOROUGHLY, OVER MANY YEARS. IN ADDITION, HE WORKED WITH THE NAR'S MARK BUNDICK AND TRIP BARBER ON WEB RELATED ISSUES.

DARRELL WAS A BALANCED INDIVIDUAL, ALWAYS ENCOURAGING ME TO WRITE ARTICLES ABOUT THE LOW POWER ROCKETRY SIDE OF THINGS AND ALWAYS STRESSING THE IMPORTANCE OF RECRUITING FROM THE LOW END OF THE ECONOMIC SPECTRUM. HE WAS ALWAYS CONCERNED THAT PRICE INFLATION HAS PUSHED THE ELITE HPR ACTIVITY AWAY FROM 'COMMONERS' LIKE MYSELF.

I WILL MISS HIM. AS FOR *ROCKETRY PLANET*, THE MODERATORS HAVE BEEN BUSY, TRYING TO KEEP THE SITE AND ITS ARCHIVE UP. THEY ARE STILL PUBLISHING ARTICLES.

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OBITUARY

LAURIE BARR FSMAE

1927-2011

BY THE EDITOR

LAURIE BARR DEPARTED THIS LIFE ON THE 12TH APRIL 2011, AGED 83. HIS CONTRIBUTION TO INDOOR MODEL FLYING IN THE UK REMAINS UNPARALLELED AND HIS COMMITMENT TO CONVENTIONAL OUTDOOR FREE FLIGHT CANNOT BE OVERLOOKED EITHER. LAURIE SERVED AS CHAIRMAN OF SMAE (NOW BMFA) BETWEEN 1968-69 AND ELECTED A FELLOW IN 1976. FEW HAVE COME CLOSE TO HIS CONTRIBUTIONS TO AEROMODELLING.

IN 2004, LAURIE WAS AWARDED THE *FAI AEROMODELLING GOLD MEDAL* FOR EXEMPLARY SERVICES. THAT SAME YEAR, YOUR EDITOR WAS HONOURED BY THE *FRANK EHLING DIPLOMA*, WE TRAVELLED TO HOTEL DE VILLE IN PARIS, IN OCTOBER 2005 FOR THE FAI AWARDS. JUST AN AMAZING EVENING, WITH AN AMAZING CHARACTER.

LAURIE REPRESENTED GREAT BRITAIN IN F1B-RUBBER (WAKEFIELD) AND ON A NUMBER OF OCCASIONS AT THE INDOOR WORLD CHAMPIONSHIPS. WHEN NOT MODEL FLYING, HE ESTABLISHED A COMPANY THAT PRODUCED MODELS FOR FILMS AND TELEVISION...NOT LEAST, *THUNDERBIRDS!*

INDOOR FLYING IN HIS HOME COUNTRY COULD NOT HAVE CONTINUED AND PROGRESSED WITHOUT LAURIE. HIS COMMITMENT TO MAINTAINING THE RAF CARDINGTON HANGAR – THE WORLD'S GREATEST INDOOR ARENA - AND MORE LATTERLY OBTAINING USE OF THE MILLENNIUM DOME CANNOT GO UNMENTIONED. LAURIE IS SUCCEEDED BY WIFE BETTY AND THREE OFFSPRING, DUNCAN, DEBBIE AND ANDREW. I'LL MISS HIM, LAURIE WAS WONDERFUL.

Logic RC Ltd.. bringing Estes to the masses! by the Editor

UK HAS a new importer/distributor of Estes' products. *Logic RC Ltd* have recently taken on this key role. In recent times, SERFs' John Harvey; HART's Pete Barrett; *Rockets and Things* guru, Malcolm Jennings and your Editor attended a seminar at Logic's HQ in Hertford – UK.

..And it's overdue, Estes' products had reached record highs in recent years, with price hikes every time £ Sterling moved (in either direction..) against the US \$. Our meeting with *Logic RC* Director, Drew Nicholson, established that High Street prices will return to 2006 levels, which is fantastic news for the 'grass roots' of the activity and even better news for those considering 'having a go'. *Logic RC* is also committed to the educational use of Estes' model rockets and high profile displays.

Logic's set up in Hertford is fantastic, with other foci including RC model cars and model aircraft. Go to the website and browse...but go careful, you might buy something!

www.LogicRC.com

Great news too, for modroc traders like Malcolm Jennings – SERFs' sponsor – who can expect record sales as the summer comes to a conclusion. The aforementioned have been appointed consultants to the management to make sure Model Rocketry-Space Modelling in the UK goes from strength to strength...Bringing Estes to the masses?!? ..bringing masses of Estes to the rest of UK, more like..

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Hail and hearty... Jason Wentworth goes out in the rain!

MORE rockets that could go in the Scale 'mixer'. In countries where hailstorms destroy crops and generally reduce yields, rockets that will touch off rainstorms before they reach the 'target area' have been developed. Normally these birds will explode and release a cloud of pyrotechnic Silver Iodide over a cloud that will make it become rain. Over to Jason..

Another class of full-scale rockets that would lend themselves well to scale modeling is anti-hail rockets (also called hail-suppression rockets and rainfall-enhancement rockets). They are used to seed storm clouds with silver iodide and/or other chemical compounds that encourage the clouds to release their moisture in the form of rain rather than as hail. Many of these rockets could easily be modelled at 1:1 (100%) scale. Below are links to illustrations of and information on several different types of anti-hail rockets:

PGR PP-8 and PGR PP-6T (Serbian)

http://www.poliesterpriboj.com/protivgradne_rakete..en

Sky Clear 6 (Russian)

<http://www.cloud-seeding.eu/en/skyclear6.htm>

13 Anti-Hail Rocket Suppliers (Italian)

<http://chemistry.europages.co.uk/business-directory-europe/did-chimie07/hc-07195F/Antihail-rockets.html>

Various models (Chinese)

<http://www.wholesale-electrical-electronics.com/p-anti-hail-rocket-1380322.html>

Alazan 5 (Russian)

<http://www.attech.ru/en/alazan/>

Alazan 5 and Alazan 6 (Russian)

<http://www.chapaew.ru/default.aspx?page=../10508/10527/10540&mode=prod&type=en>

"Anti-Hail Rocket" (Chinese)...looks suspiciously like one of "Sky's" model rockets!?!

<http://www.made-in-china.com/showroom/fengwenwen818/product-detailNMqQiErcazhY/China-Anti-Hail-Rocket-WR-.html>

A6 and A8 (Serbian)

<http://www.edepro.com/ProductsAntiHailRockets.html>

Alazan 9 (Russian)

<http://www.fr.tppchr.ru/index.php?Mn=13&sMn=39>

WR Series (Chinese)

http://ensunvalorcasc.w1.xacnnic.com/products_show.aspx?classid=93

WR-98 Series and WR-1D (Chinese)

<http://www.castcc.com/en/show.php?id=77>

Alan-2 (Russian)

<http://www.attech.ru/en/alan/>

Cohete Antigranizo "A Medida" (Argentinian)

http://desarrollos-argentinos.blogspot.com/2006_12_01_archive.html

..developed by *Instituto Civil de Tecnología Espacial* (ICTE)

www.icte.com.ar

KPGR-6 (Serbian)

www.krusik.rs/CIVIL.PROG_eng/KPGS.htm also..

Shaanxi Zhongtian Rocket Technologies Co. Ltd. (an anti-hail rocket manufacturer that also produces model rockets under the "Sky" name) offers the **TK-1** and **TK-2** hail-suppression rockets, the **TY-3** sounding rocket, and the **TY-4** meteorological rocket, see:

www.wcu100.com/WeatherRocketEnglish/SoundingRocketEnglish.htm

Their **TY-3** sounding rocket is particularly interesting as a scale model subject because it has a long, gently-tapered boat-tail, which would give a **TY-3** scale model quite low drag.

I hope this information will be useful.

Editor's note.. Sure will be mate, keep the stuff coming. Scale modelling needs as much input as it can get.

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**Apollo 13... to launch, or not
to launch...that is the question!?!**

by **Tom Campbell**

ANOTHER contribution to the S7-Scale debate that grumbles on! We really do need more diversity and the example cited here – Apollo 13's Lunar Lander (LM), Command and Service Modules (CM and SM) – is really different. Let's go over to Tom..

"Tom Campbell here, from past US World Space Modelling Championships' Teams. I got your email address from Dr. Bob Kreutz whom I understand has been speaking with you".

"As you probably (hopefully) know, I'm working on a new prototype for S7-Scale, the Apollo 13 Lunar Module, Command Module & Service Module. This was the 'stack' that was used as a 'lifeboat' for the entire crew to circle round the moon and return to earth after losing power, owing to an Oxygen tank explosion which took out power to the fuel cells".

"But I digress. Although I strongly believe that this particular configuration (and flight pattern..) allows it to qualify for S7 competition, there is a concern as to what certain international judges might rule. Dr Bob suggested that I publicise the concept and get people talking, thinking and hopefully accepting it as a legitimate S7-Scale 'candidate'".

"Dr Bob tells me that you produce a rocketry newsletter that has a diverse subscription list - and also suggested that I appeal to you to include a feature on the model to whet the appetite of International Spacemodelers". [it's called **interspace..** – Ed]

"So I'm doing that. This model is just a 'proof of concept', 1/39 scale build. I didn't put a lot of time into the details, but did include an 'open' Service

Module bay, to see what effect, if any, such a dent would have on a flight. Some things: The fins are clear and integrated into the Lunar Module landing gear. A clear plastic nose cone has topped the Service Module engine nozzle for better aerodynamics. It has been launched from a double-rod system using an Aerotech E30-4 engine. The single-staged flight was a complete success". All flight-related pictures and videos are courtesy of Chris Taylor... www.naramlive.com

"Also, if yourself or any of your team mates would be interested in flying this model at a European World Cup event, let me know and I'll box it up. It's just gathering dust right now and I'm working on a larger 1/24 scale prototype".

"About the Apollo 13 'stack' we've been tossing back and forth. It's my contention that when the SM lost power and the LM became the only source of thrust, it became a whole new 'spacecraft' and therefore falls within the rules of S7. Sure, it needed a whole Saturn 5 to get it into space...but it still qualifies as a unique 'spacecraft' on its own. Does that make sense? I'm actually in communication with several Apollo experts, including Andrew Chaikin and Jeffrey Kluger, who co-wrote 'Apollo 13' with James Lovell. (I'll get Lovell yet, just you wait!). Anyway, Kluger related to me that Lovell always thought that it was a brand new 'spacecraft'...not only did they have to draw on the thrust of the LM descent engine to get them back to earth, but they also had to use the LM RCS system to steer...and Lovell related to Kluger that this combination had a whole new CG and he had to learn to fly it during the mission itself".

"Finally, is your newsletter electronic or snail mail? Regardless, please send me info on how to sign up to receive it. Many thanks in advance and cheers to you and your teammates". I can be got on..

Tcampbel4@neo.rr.com

[virtual, electronic...quick, quick, snail!?! - Ed]

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Jean-Marc Badan... is now heading up the FAI!

by Faustine Carrera ~ FAI Communications Manager

JEAN-MARC BADAN the previous FAI Sports Director and Deputy to the Secretary General, has been appointed as the new Secretary General of the FAI – the International Air Sports Federation. He will formally take up his appointment in Lausanne, Switzerland, on 1st October 2011.

Following the announcement in July of the resignation of Stephane Desprez, the FAI Executive Board started a comprehensive recruitment process, and evaluated a number of highly qualified applicants. During the last Executive Board meeting which took place this weekend in Arcinazzo, Italy, the FAI Executive Directors unanimously decided to select Jean-Marc Badan as the new FAI Secretary General.

Jean-Marc Badan, 47..joined FAI more than 9 years ago, after having flown as an airline pilot for more than 10 years with the former Swissair Airlines. Amongst his activities as a volunteer, he has been a member of the Board and Vice President of the Aero Club of Switzerland, as well as Chairman of the Gruyere Airfield (SUI). Therefore he has an extensive knowledge of the aviation industry, the Air Sports environment and more particularly of the FAI infrastructure and governance.

Dr. John Grubbström, FAI President, commented: "Over the past few months the FAI has been engaged in a new management and change process. With the appointment of Jean-Marc Badan, we are very confident that the FAI is now ready to take another major step in bringing the FAI forward."

On learning of his appointment, Jean-Marc Badan said: "I am very pleased and proud to be taking over this challenging position at the FAI. The FAI and Air Sports not only have a glorious history, but still have a lot of potential for developing new and exciting events in the future. I hope that the experience I have

gathered over the past years, especially during the preparation of the 2009 FAI World Air Games, will be of value to all our air sports and members worldwide. I am looking forward to continuing to work with the FAI Family and really believe that, by joining our efforts, we are ready for take-off !"

The FAI Executive Board is convinced that Jean-Marc Badan will contribute promoting air sports throughout the world and further strengthen the FAI's public profile in the sporting and aviation communities.

Editor's note.. *Change, dynamic, forward thinking. Not always the words that flag up in the same sentence as Federation Aeronautique Internationale! But Jean-Marc Badan is all of those things and I know that from personal experience. He will help us take Space Modelling into the Space Age and may also make it more spectator and media-friendly at the same time.*

SCUDs B & C... another day, another S7-Scud entry..!

by Geoff Seabrook

YET ANOTHER contribution to the S7-Scale! Geoff Seabrook has found something else worthy of consideration. SCUD...always loved that designation! Over to Geoff...

"I've found a cracking model of the Scud C..

<http://www.dpileggispicks.com/erictruax%27sindex.html>

"...which I'm starting to build, Scale data is sketchy to say the least. The designer of the model quotes information from Vladimir Minakov and I know you have said in the past that he has fantastic data on Russian rockets. If I email him do you think he will provide me with data? As I said before I'm not trying to enter World Championships, but if the models are any good I'd consider World Cups".

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"I'm also working on an improved version of the Black Knight 1. The first version was amazingly stable in Flight which makes me want to make a moulded nose cone and perhaps improve the smoke generators. In reality I'd quite like to get some momentum behind S5 and S7 scale in the UK. John Jacomb is still building models and of course you are the master. Trevor tells me you are working on a scale model of the Skylark, which is on our list as well. We've got some photos of the version in Leicester if they'd be useful to you".

"I've done quite a lot more of research recently and know a bit more. The Scud C was built by the Russians but never deployed. It was really just a Scud B with an extended range. However, the North Koreans did build their own version and sold quite a few to Libya, Iraq, Iran and other dubious Middle Eastern countries. The issue with the B marquee, was it only had a 250km range...not enough for the Iranians to hit Baghdad, or Iraq to hit Tehran. That's why the Korean Scud C was deployed. Bad news was the Korean Scud C accuracy was to the nearest 2,000 metres.."

"The Scud C is probably the wrong choice for a competition S7-Scale model. Scud B might be a better choice as there were thousands of those built and deployed. I even have plans for a Scud B modified to carry a nuclear warhead. Scale data is apparently hard to come by and of course Peter Alway does not include them in his book. Once more, Vladimir Minakov is always quoted as the information source".

"So I've decided to limit this project. I'm going to finish the Scud C I've started, then probably build a Scud B with the nuclear warhead. I am trying to find plans for the launcher as well. These will just be fun projects that would fly in UK competitions if we ever have them. My real project is to get together information on the Black Knight and Skylark. I'd like to make quality flying models of both these rockets to enter into World Cups. After all I am British".

Editor's note.. Let's go guys. Does anyone out there have some more data on SCUDs B & C???

Sava River Tour part 2 ~ Vincovci.. 1st Fenix Cup Vincovci – CRO. 10-11 September 2011 by The Editor

SAVA CRUISE...Vincovci is in eastern Croatia, midway between the Sava's source in Slovenia and its confluence with the Danube, in Serbia's Belgrade. Vincovci was also where the train broke down, in 'Murder on the Orient Express'.. 1st Fenix Cup...Croatia's first attempt at an international Space Models World Cup attracted entrants from Slovenia, Serbia, Macedonia, Russia, Romania, Bulgaria, Poland, Slovakia, Germany and the hosts...pretty amazing! Aero Klub 'Fenix' at nearby Ceric took up the challenge with vigour and this, plus consultancy from Andrija Ducak of MK Sirmium - 'over the border' - synergised a stellar World Cup. Your scribe had been instrumental in getting the Aeroclub of Croatia to recognise Space Modelling, some five years ago. His 'reward' was to be named president of the S7-Scale Judges, so partying would have to wait. Podiums:

S4A-Boost Glider World Cup

The startlist was amazing, with Gennady Poltavets (RUS), Zika Josipovic, Vladimir & Miodrag Cipic (all SRB); Michael Helmert (GER); Boris Lekov; Angel Todorov & Plamen Jordanov (both BUL) and Croats, Romano Suti, Sara & Branka Gelencer, Tin Gurcevic, Maria Forijan, Tomislav & Marko Krajinovic, to name but a few of the contenders. The air was just a little choppy, resulting in some sub-standard scoring, with many cursing their luck, getting a duff flight when it really mattered. The star of 2011 has been Zika Josipovic and his consistency – the only flyer getting 3 rounds of 3-number scores – proved instrumental in yet another Gold. Romano Suti managed 4th with a first

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round Zero, but well done, Marjan 'the Papa' Jenko and Michael Helmert, holding it together just long enough:

1 Zika JOSIPOVIC	SRB	180	103	180	= 463s
2 Marjan JENKO	SLO	180	95	118	= 393s
3 Michael HELMERT	GER	155	98	83	= 336s

S6A-Streamer Duration World Cup

Massive! Over 50 went to the rampa to slug out this classic. Big players looking like, Zoran Antanasoski (MKD); Henning Lose & Jonas Buechl (GER); Boris 'the Conqueror' & Papa Jenko, plus Rok Spandl (all SLO) and hosts Tomislav Cvitic, Jozo Ivancic, Mislav Gaspert and more. This one was good, with the world in the mixer until the final round of flights were counted. Just brilliant to see Jozo Ivancic score better and better for Gold, with junior Miodrag Cipcic and 'the Papa' on the sidesteps...super:

1 Jozo IVANCIC	CRO	96	172	180	= 448s
2 Miodrag CIPCIC	SRB	107	180	150	= 437s
3 Marjan JENKO	SLO	180	76	180	= 436s

S7-Scale World Cup

A World Class hall, with many of the 'usual suspects' looking to fly the sky once more. Saturn 1Bs featured prominently, featuring Miroslav & Dejan Stancevic and Zika Josipovic (all SRB), plus a massive example by Wojciech Borrowski (POL). The fleet of Arianes was flown by Florica Sercaianu (ROM); Vladimir 'chirpy' Cipcic (SRB) and Wojciech Krzywinski (POL) – the latter featuring an electronic flight control system. But there was lots more for Judges, Nimka Cvjeticanin (SRB), Damir Kuterovac (CRO), Stanisa Petrovic (MKD), your reporter, plus 'apprentice', Igor Ujakovic to run their rules over. A popular prototype flown by juniors in Serbia is the MIM-104 Patriot, with four of these on the table with the stars.

Static scoring produced a tight top-5 and the qualification flights would surely prove decisive. And they did, for all the wrong reasons...the standard of flying was appalling, with DQ numbers matching scoring flights! A big loser was Wojciech Krzywinski, his super Ariane 3 V17, with clever electronics counting for nothing, when a motor exploded a second after launch; the resulting crash and damage ruined

the second attempt too. Florica Sercaianu made a simple flight with her Ariane 3; Vladimir Cipcic got an identical low score with his Ariane 1L-01. But the mega-winner in all this carnage was junior, Miodrag Cipcic, flying a super Bumper WAC-B7 on a two staged boost which just whiskered ahead of Dad and Florica...and Gold! A surprising fact was how more than one entrant got timed-out at the climax, Josip Zupanic (CRO) losing out big time with his marvellous Black Brant 8. Podium posers were just a little unexpected, but very good, nonetheless.

1 Miodrag CIPCIC	SRB	<i>Bumper WAC-B7</i>	681 + 125 = 806pt
2 Florica SERCAIANU	ROM	<i>Ariane 3</i>	708 + 70 = 778pt
3 Vladimir CIPCIC	SRB	<i>Ariane 1L-01</i>	700 + 70 = 770pt

S9A-Gyrocopter Duration World Cup

Another one that read like a 'Who's Who' of Space Modelling! S9A-Gyrocopter is always hard to pick at the start, with ante post favourites looking like Zika Josipovic and Goran Timotijevic (both SRB), Angel Todorov, Boris Lekov and Plamen Jordanov (all BUL), Michael Helmert, Jonas Buechl and Daniel Dietrich (all GER) and Florica Sercaianu (ROM). But plenty more in the mixer to spoil the fun. A fairly high scoring event in the top-10, with Boris Lekov (BUL) underlining Bulgaria's renaissance for Gold; Jonas Buechl flew a good one for Silver and Zika Josipovic yet another podium for Bronze, despite a poor last flight.

1 Boris LEKOV	BUL	180	155	165	= 500s
2 Jonas BUECHL	GER	139	180	152	= 471s
3 Zika JOSIPOVIC	SRB	180	162	80	= 422s

S8E/P-RC Rocket Glider Spot Landing World Cup

A dozen went to the rampa in a class that has ebbed and flowed in 2011. And we had some superstars in Mitija & Matjan Zgajner, plus Kristijan Crnoja (all SLO); Angel Todorov and Nikolai Peychev (both BUL); Stefan Turza (SVK) and Vlada 'chirpy' Cipcic (SRB)...where would it go?!? Mitija Zgajner and Vlada Cipcic flew a perfect opening series, followed closely by Wojciech Borrowski (POL), Stefan Turza and Angel Todorov. Conditions were perfect and the spectators gathered

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for the showdown at noon. Slovenian Mitija Zgajner has enjoyed a stellar season and nailed Gold, followed marginally by Vlada Cipcic; Stefan Turza glad to break Slovakia's duck at the meeting.

1 Mitija ZGAJNER	SLO				
		1000	1000	1000 + 1000 =	4000pt
2 Vladimir CIPCIC	SRB				
		1000	1000	1000 + 987 =	3978pt
3 Stefan TURZA	SVK				
		1000	914	1000 + 980 =	3894pt

S3A-Parachute Duration

Too much performance; too many losses; too much of a lottery...that's what they say about S3A-Parachute Duration, one of the classic events in Space Modelling. Doesn't explain why it's popular every time it's contested! Another massive startlist, even without World Cup status and tough to pick the winners. Maja Juric, Denis Stvanic, Marko Krajnovic, Romano Suti, Ivana Miskovic and Zdarvo Ivancok looked the likely big players for the hosts; Janka & Miha Rupnik, plus the 'Jenko mafia' (all SLO); Michael Helmert, Daniel Dietrich and Henning Lose (all GER) and Florica Sercacainu (ROM). But this one is always a random mixer, with good luck and legs absolutely vital too. Three 300s maximums is the normal minimum requirement and we were left with a flyoff lineup of Zdravko Ivancok, junior Rok Spandl (SLO) and Daniel Dietrich. Ivancok fouled out, with young Spandl prevailing over Dani Dietrich in Silver...good podium actually..

1 Rok SPANDL	SLO	300	300	300 + 240s
2 Daniel DIETRICH	GER	300	300	300 + 188s
3 Zdravko IVANCOK	CRO	300	300	300 + 0s

Soujourn from Vincovci-on-Sava... Brilliant, utterly brilliant! First attempt at a World Cup, you would never have known, the huge startlist from ten nations enjoyed what might be the best World Cup of 2011. Thanks are offered to Contest Director, Darko Krajinovic and all the team at Aero Klub 'Fenix' Ceric. Well done too, Andrija Ducak and his fellow consultants at MK Sirmium, for an exemplary contribution. The FAI Jury of Joze Cuden (SLO),

Andrija Ducak (SRB) & Lucian Sercaianu (ROM) had little to rule on and RSOs Marjan Cuden (SLO) & Georgi Georgieski (MKD) got all the calls right. Even more thanks are due to sponsors Karlovacko brewery, who provided free beer for the whole weekend..

Your reporter offers sincere thank to Romano Suti and Ivana Miscovic for driving him from/to Zagreb. Two days were spent in Zagreb seeing the sights and the Sava, before getting the train westwards to Ljubljana, in Slovenia, on the 'From Russia, With Love' route.. Ljubljana?!? ..oh yes, that's Sava River Tour part 3!

A report resembling the above will feature in *Aviation Modeller International* in the near future.

That's all Folks!
interspace.. just gets bigger & bigger!

YET ANOTHER huge issue! But I've written those words many times before!?! We'll stop here, Star Billing next time around is likely to be a little event in Slovenia...33rd Ljubljana Cup..

JUBILEE + DIAMOND =75!?!

...Nope, I can't believe it either!!

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