

The Journal of FAI Space Modelling

The British Space Modelling Association

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Space Modellers win **BIG** in 2011 FAI Awards by Srdjan Pelagic

LATEST news from the FAI Office, regarding 2011's FAI Awards...to be presented in 2012, is **STELLAR!** These prestigious honours will be presented this year for achievements in Airsports. The 106th FAI General Conference, is to be held in Antalya, Turkey, on Thursday 18th October 2012. The *WOW Topkapi Palace Hotel*, Antalya, is the venue and the presentations to be performed by FAI President, Dr John Grubbstrom.

I am happy and honoured to tell you that two of our clubs and two individuals have received five prestigious awards for their achievements and contribution to the development of Space Modelling.

Paul Tissandier Diplomas

Aeroklub Franjo Kluz ~ Serbia

Klub Kozmických Modelárov Košice ~ Slovakia

Paul Tissandier Diploma

Antonio MAZZARACCHIO ~ Italy

Jordi ROURA FONT ~ Spain

Alphonse Penaud Aeromodelling Diploma

Antonio MAZZARACCHIO ~ Italy

I extend my congratulations to all concerned and wish them even more successes in the future. I am especially happy for Antonio and Jordi, as these two are members of our Space Models sub-Committee. It will be great if our awardees are able to go to Antalya and to represent Space Modelling in the best possible way.

Editorial 2012 has been notable for just about everything...just about *Everything POSITIVE!* London has performed a stellar role hosting the Olympic and also the Paralympic Games. The overall effect here has been to cheer and enthuse the British public in these times of economic trauma. Similarly, the run-up to the World Championships in Slovakia – reported in these pages - has shown very encouraging trends, Space Modelling is doing its best to resist the effects of recession.

The 19th World Space Modelling Championships ~ Seniors + 10th World Space Modelling Championships ~ Juniors, has done the same for Space Models and all involved. A fantastic event and a credit to all concerned. Results naturally reported below. Also, some great World Cup action from Zielona Gora ~ Poland, plus Shostka and Dnepropetrovsk ~ Ukraine too.

2012 is proving special...and it's nowhere near over yet. The World Cup classes are coming down to the wire, in what promises to be the closest set of results ever. Naturally interspace.. will feature the climax next time.

The interspace.. Book of Space Travels, by the Editor, will be available very soon now. Full details of content and price will be available soon. So you

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thought you knew about the recent history of Space Modelling?!?

19th World Space Modelling Champs ~ *Seniors, plus..*

10th World Space Modelling Champs ~ *Juniors..*

*1-8 September 2012 ~Liptovsky
Mikulas, Slovakia*

by the Editor (with a lot of help from a guy in
Serbia's Second City)

CONGRATULATIONS to all who contributed to make this huge event successful. Special praise is due to Director of the Championships Lubomir Jurek; Sports Director Dusan Meciar; Logistic Director Jozef Jasso; organising club in Liptovsky Mikulas; Zvaz Modelarov Slovenska; all winners; all competitors; all judges and timekeepers....

This was massive, with about 400 participants from 21 countries in Asia, America and Europe. All were accommodated in Tatralandia - a spa near Liptovsky Mikulas. Most of the participants were placed in bungalows and the breakfasts & dinners were in the Tatralandia restaurant.

Weather sunny, warm and clear most of the time, except a thunderstorm in the evening and some clouding over in the final days. Wind began gentle, but a problem during the S8D competition, but the Juniors were good enough to come through.

The large lake at Liptovska Mara was an ever present threat, but fortunately the wind was not in that direction, most of the time. But boats needed to come to the rescue in several cases!

There were two guests of honour - Czech kosmonaut, Vladimir Remek and Slovak contemporary, Ivan Bella, who visited the flying field and awarded some prizes at the Closing Ceremony.

Best overall team of the Championships was Serbia with an awesome 17 medals! Serbia was also the best Seniors' team, but the best Juniors' team was Ukraine. Best Senior was Zoran Katanic - Serbia with 4 medals...2 Gold: best Junior was Toni Stanev - Bulgaria. Podiums..

S1B-Altitude ~ *Seniors*

1 Maksim Timofeev	LTU
2 Mykolas Treikauskas	LTU
3 Zoran Katanic	SRB

Teams

Serbia
Slovenia
Russia

S3A-Parachute ~ *Seniors*

1 Zoran Katanic	SRB
2 Igor Ibragimov	UZB
3 Zivan Josipovic	SRB

Teams

Serbia
Russia
Poland

S4A-Boost Glider ~ *Seniors*

1 Zoran Katanic	SRB
2 Vladimir Menshikov	RUS
3 Fu Wen Mei	CHN

Teams

Russia
Slovenia
Serbia

S5C-Scale Altitude *Seniors*

1 Vladimir Cipic	SRB
2 Bedrich Pavka	CZE
3 Marcin Bielecky	POL

Teams

Poland
Slovenia
Czech Republic

S6A-Streamer ~ *Seniors*

1 Slawomir Lasocha	POL
2 Zoran Katanic	SRB
3 Sergei Romanuk	RUS

Teams

Poland
Serbia
Russia

S7-Scale *Seniors*

1 Aleksandr Levikh	RUS
2 Bedrich Pavka	CZE
3 Martin Pavka	CZE

Teams

Czech Republic
Russia
Romania

S8E/P-RC Rocket Glider Spot ~ *Snr Teams*

1 Li Shiqi	CHN
2 Lu Zeng	CHN
3 Lauris Pumpurs	LAT

China
Russia
USA

S9A-Gyrocopter ~ *Seniors*

1 Leszek Malmzyga	POL
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Teams

Czech Republic

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2 Mykolas Treikauskas	LTU	Lithuania
3 Martin Pavka	CZE	Bulgaria

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S1A-Altitude ~ Juniors

1 Tomislav Stanev	BUL	Ukraine
2 Kiril Protsenko	UKR	Bulgaria
3 Borys Oliferov	UKR	Serbia

S3A-Parachute ~ Juniors

1 Aleksandr Volokhov	RUS	Ukraine
2 Andrei Kashkin	RUS	Russia
3 Kiril Protsenko	UKR	Romania

S4A-Boost Glider ~ Juniors

1 Roman Svec	SVK	Ukraine
2 Vesna Katanic	SRB	Slovakia
3 Roman Taran	UKR	Serbia

S5B-Scale Altitude Juniors

1 Miodrag Cipicic	SRB	Romania
2 Vladislav Verstov	RUS	Czech Republic
3 Andrei Nitu	ROM	Russia

S6A-Streamer ~ Juniors

1 Toni Perales	ESP	Spain
2 Konrad Wierbicki	POL	Serbia
3 Luka Volarovic	SRB	Russia

S7-Scale Juniors

1 Jan Sebesta	CZE	Czech Republic
2 Katerina Vanikova	RUS	Russia
3 Juliusz Benak	CZE	Romania

S8D-RC Rocket Glider ~ Juniors

1 Szymon Byrtek	POL	Russia
2 Andrei Kashkin	RUS	Poland
3 Zakary Stenberg	USA	China

S9A-Gyrocopter ~ Juniors

1 Vesna Katanic	SRB	Poland
2 Frantisek Kontra	CZE	Serbia
3 Szymon Byrtek	POL	Bulgaria

Utterly superb...a stunning World Space Modelling Championships. FAI Jury of Srdjan Pelagic (SRB), Oleg Krasnov (RUS) & Miroslav Sulc (SVK), did brilliantly. Scale Judges, Vladimir Minakov (RUS), Arnis Baca (LAT), Miodrag Cipicic (SRB) & Marin Georgiev (BUL), were on overtime! Marvellous...RSOs Andrija Ducak & Ewa Dudziak-Przybytek (POL) did

superbly under immense pressure. And who took part?!? The United States of America, Germany, Czech Republic, Japan, Belarus, Latvia, Spain, Poland, Ukraine, Canada, United Kingdom, Lithuania, Bulgaria, Russia, Romania, Serbia, Slovakia, Croatia, China, India, Uzbekistan and Slovenia...not bad then!

Zielona Gora Cup 2012 ~

Zielona Gora-POL : 20-22 July '12...Superb!

POLAND isn't in the business of hosting second-rate World Cups and this one no exception. Held at *Aeroklub Lubuskie Land Airport, Przylep*, this event attracted a big entry from Czech Republic, Slovenia, Slovakia, Lithuania, Croatia, plus the hosts, Poland. Event Manager, Leszek Malmyga & Contest Director, Jerzy Boniecky can be very pleased with the outcome. Podiums:

S4A-Boost Glider World Cup (34 starters)

1 Jaroslav CHMELIK	CZE 130 180 145 = 455s
2 Antoni BIENIACKI	POL 180 141 100 = 421s
3 Marjan JENKO	SLO 180 142 82 = 404s

S6A-Streamer Duration World Cup (43 starters)

1 Wladislav STAROBAT	POL 180 97 135 = 412s
2 Sebastien SZULC	POL 117 180 95 = 392s
3 Krzysztof PRZYBYTEK	POL 145 93 145 = 383s

S9A-Gyrocopter Duration World Cup (40 starters)

1 Gintaras JUCEVICIUS	LTU 152 180 180 = 512s
2 Leszek MALMYGA	POL 180 139 180 = 499s
3 Pavel BRONY	CZE 180 136 180 = 496s

S7-Scale World Cup (15 starters)

1 Zdenek KOLAR	CZE	<i>Ariane 44LP V-99</i> 789+247 = 1036pt
2 Antoni KARCH	POL	<i>Saturn 1B SA205</i> 788+200 = 988pt
3 Hubert PRZEDWOLSKI	POL	<i>Saturn 1B SA205</i> 733+160 = 893pt

S8D- Rocket Glider Juniors (8 starters)

1 Szymon BYRTEK	POL 360 359 360 = 1079s
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2 Mateusz DYBA POL 283 309 257 = 849s
3 Aurimas PETKEVICIUS LTU 145 260 269 = 674s

S8E/P-RC Rocket Glider World Cup (21 starters!!)

1 Artur SZWED POL 957 982 1000+ 976 = 3915pt
2 Tomasz KARCH POL 786 997 1000+ 965 = 3748pt
3 Bedrich PAVKA CZE 949 988 792+ 860 = 3589pt

The FAI Jury comprised Jerzy Siatkowski (POL), Lubomir Jurek (SVK) & Vera Pavkova (CZE) and RSO Jan 'Mr Zero' Maixner (SVK) ...Brilliant! The S7-Scale hall was well run by Andrzej Sawicky (POL), Tibor Gira (SVK) & Ryzard Smolinski (POL). Really good S7-Scale hall, with a very varied content. CRACKER!!

Impulse Cup 2012 ~ Shostka-UKR : 23-26 July '12...big is not a 'BIG' enough word!!

BIGGEST of 2012 so far and the most easterly, thus far. Sponsors, *Shostka State Plant "Impulse"* and the *Model Rocket Federation of Ukraine*. Contest Director, Hanna Hapon could not have envisaged anything this good. Czech Republic, Kazakhstan, Moldova, Russia, Uzbekistan, Belarus & Ukraine contributed to an all-time great World Cup. See these podiums...check out the numbers..

S4A-Boost Glider World Cup (41 starters)

1 Vitali MAYBORODA RUS 180 180 180 = 540s
2 Irina MAYBORODA RUS 180 147 177 = 504s
3 Vlada IVANOVA RUS 180 155 161 = 496s

S6A-Streamer Duration World Cup (42 starters)

1 Sergey ZAPIVAKININ UKR 68 172 161 = 401s
2 Vladimir KHOKHLOV RUS 118 180 91 = 389s
3 Shamsiddinjan DUSIEV UZB 177 116 132 = 366s

S9A-Gyrocopter Duration World Cup (40 starters)

1 Vladimir MINKEVICH BLR 180 180 180 + 173 = 713s
2 Gennady POLTAVETS RUS 180 180 180 + 140 = 680s
3 Vladimir KHOKHLOV RUS 177 180 180 = 537s

S7-Scale World Cup (29!! starters)

1 Irina MAYBORODA RUS *Cyklon-3* 735+190 = 925pt
2 Dmitri TROKHIMENKO UKR *Saturn 1B SA205* 706+162 = 868pt
3 Valentina ROMANJUK UKR *Saturn 1B SA205* 667+151 = 818pt

S8E/P-RC Rocket Glider World Cup (23!! starters)

1 Grigory SERGIENKO RUS 1000 981 1000+ 997 = 3978pt
2 Denis TKACHENKO RUS 904 1000 765+1000 = 3669pt
3 Mikail BELOUSOV KAZ 942 1000 1000+ 700 = 3642pt

FAI Jury comprised Alexei Koriapin (RUS), Oleksandr Heresymancko (UKR), Ion Mateichuk (MLD) and Vladimir Minakov (RUS)...S8E/P only. RSO was Yuroy Hapon who had a busy time, as did the S7-Scale Judges, Vladimir Minakov (RUS), plus locals Oleksandr Pobrebniak and Viktor Kovalov deserve a medal for working like slaves! Whilst on the subject of S7-Scale, the hall was packed with diversity – about the most varied your Editor has ever seen. Last words, the best things in life are done on *Impulse*...and this superlative World Cup proved it!

Yangel Cup 2012 ~

Dniepropetrovsk-UKR : 28-31 July '12...Go even further east my boy, this was GOOD!

HOT on the heels of Shostka and the *most Easterly by far*...Ukrainians don't like coming second! The *Model Rocket Federation of Ukraine* must be pretty happy with these two

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World Cups. Nations coming to the shores of the river Dneiper were Belarus, Germany, Kazakhstan, Russia, Uzbekistan and the hosts, Ukraine. Let's have look at some podiums..

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

1 Bogdan RAPALYK	UKR 180 180 86 = 446s
2 Nazar SUHCARNCHUK	UKR 135 150 87 = 372s
3 Igor IBRAGIMOV	UZB 90 97 180 = 367s

S6A-Streamer Duration *World Cup* (20 starters)

1 Andrey SHEDROV	UKR 171 78 87 = 336s
2 Igor RAPALYK	UKR 72 180 66 = 318s
3 Daniel DIETRICH	GER 99 126 92 = 317s

S9A-Gyrocopter Duration *World Cup* (19 starters)

1 Borys OLIFEROV	UKR 165 180 132 = 477s
2 Oleksandr GOLOVIN	UKR 110 180 134 = 424s
3 Shamsiddinjan DUSIEV	UZB 126 180 110 = 416s

S7-Scale *World Cup* (9 starters)

1 Denis PRYDANNIKOV	UKR		
	<i>Trailblazer-1F</i>	606+132 = 738pt	
2 Aliaksandr LIPAI	BLR		
	<i>Jupiter-C</i>	538+ 58 = 596pt	
3 Vladimir MINKEVICH	BLR		
	<i>Nike Tomahawk</i>	496+ 53 = 548pt	

S8E/P-RC Rocket Glider *World Cup* (13 starters)

1 Oleg GAKHOV	UKR		
		985 1000 980+ 769 = 3734pt	
2 Pavel VYSOTSKIY	UKR		
		1000 1000 1000+ 322 = 3322pt	
3 Mikael BELOUSOV	KAZ		
		1000 954 0 + 1000 = 2954pt	

Alexei Koriapin, Vladimir Minakov (both RUS), Igor Volkanov and Igor Ibragimov (both UKR) did a competent job on the FAI Jury. S7-Scale judges Oleksandr Pogrebnyak, Rostislav Pokrovskiy (both UKR) and Oleksandr Zagorodny (RUS) managed a varied hall very well. RSO was Vladimir Panakhno making good calls in – at times - challenging conditions. Sports Director, Sergey Bondarenko and Contest Director,

Ludmilla Volkova must be pretty pleased, this was a good World Cup.

Space Travels with a difference... *Jason Wentworth cuts the mustard*

The *Bussard* interstellar ramjet - a theoretical starship design that would have unlimited range and could approach *c* [the *Speed of Light*] very closely - may be feasible, thanks to an experiment that was conducted on July 5 at the Lawrence Livermore National Laboratory's National Ignition Facility (NIF).

For the first time, the conditions that exist deep inside stars were replicated, which means that proton-proton nuclear fusion (which the *Bussard* interstellar ramjet would utilize, using the diffuse hydrogen atoms in interstellar space as fuel) is possible. The Centuri Dreams article "*Interstellar Flight Goes Mainstream*" see: www.centuri-dreams.org/?p=23611#comments ..covers the Bussard interstellar ramjet, and the third comment under the article is a reprint of the Phys.org news story on the NIF's experiment.

Now UK people, someone you may have heard of.. Eclectic entrepreneur and unicorn magnate, Sir Richard Branson has started yet another space venture, one that will use *Virgin Galactic's WhiteKnightTwo* (the twin-fuselage launch aircraft for their *SpaceShipTwo* suborbital tourism spaceplanes) to air-launch a new expendable, small-satellite launch vehicle called *LauncherOne*. This two-stage SLV will use liquid oxygen (LOX) and kerosene in both stages, and its second stage will be restartable.

There are already sufficient illustrations (as well as a video) of *LauncherOne*, as well as partial

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dimensions of the vehicle, to permit Sport Scale documentation of the vehicle (web site links to this scale material are provided below). As the Virgin Galactic web site says:

"As a general rule, *LauncherOne* in its most typical configuration will be capable of delivering on the order of 500 lb (225 kg) to low inclination Low Earth Orbit, and 225 lb (100 kg) to a higher altitude, Sun-Synchronous Low Earth Orbit. Other configurations may offer significantly greater performance." And:

"The maximum allowable payload volume is quite large for a launch vehicle of this class. Payloads will be accommodated within a fairing approximately 40 inches (1 meter) in diameter, with a cylindrical shape for the first 30 inches (77 cm) and a conical section above." Below are the web site links.

LauncherOne Introduction:

www.virgingalactic.com/launcherone

LauncherOne Concept of Operations:

www.virgingalactic.com/launcherone/concept-of-operations/

Virgin Galactic *LauncherOne* news:

www.virgingalactic.com/news/

LauncherOne video:

www.space.com/16529-launcherone-virgin-galactic-reveals-orbital-rocket-video.html

SpaceFlightNow *LauncherOne* article:

www.spaceflightnow.com/news/n1207/11virgin/

Link to more *LauncherOne* articles:

www.google.com/#sclient=psy-ab&hl=en&site=&source=hp&q=launcherone+virgin&oq=LauncherOne+&gs_l=hp.1.1.0i10i30j0i30j0i10i30.2173.9323.1.16113.12.12.0.0.1.1973.17175.6-1j6j5.12.0...0.0.dbOqDDzRMdg&bav=on.2.or.r_gc.r_pw..cf.osb&fp=961ee5d9b4372d3a&biw=792&bih=377 And now to...

South East Asia.. South Korea's NARO satellite launch vehicle (models of which you received from Asem Hobby) will make its third attempt to orbit a satellite in October see:

www.channelnewsasia.com/stories/afp_asiapacific/vi/1214470/1.html

... Its first two launches failed to reach orbit - a payload fairing half failed to jettison, during the first flight and the second NARO vehicle exploded a little over two minutes after liftoff. The third time will -hopefully- be the lucky charm!

Great Kit Rocket SpaceX's www.spacex.com Falcon 9/Dragon scale model rocket kit is available again! Here is the link:

<http://www.amazon.com/gp/product/B006GX14R8>

Round up.. Stuart...recalling your *Vertikal 1* scale model - with its unusual spherical "nose cone" - I thought you might be interested in other rockets with "big balls"... :-) [big t*ts are more my line - Ed]. Three rounds of the British *Black Knight* re-entry test vehicle launched spherical re-entry bodies; at least one round carried a 36" copper sphere (the same diameter as the rocket), see:

www.spaceuk.org/bk/bk_pics/10.htm

...vehicle resembled the *Vertikal 1*. And:

Below are several links to scale data - and historical information - on *Black Knight*. It is also covered in "*Rockets of the World: 4th Edition*" by Peter Alway, which is available from NAR Technical Services (NARTS) See:

<https://blastzone.org/nar/narts/store.asp?groupid=1080035015601>

..It is also covered in "*A Vertical Empire: The History of the British Rocketry Programme 1950 - 1971*" by Nicholas Hill see: www.spaceuk.org/

.. which is available cheap (both the first and second editions) from AbeBooks.com, go to..

www.abebooks.com

I just received a copy of it that I recently ordered this morning! But first:

There is a downloadable *Black Knight* cardstock model that can be flown as a model rocket see:

www.nielspapermodels.com/BK.htm

[they also have cardstock models of other rockets!]). 110 pound (199 grams per square meter) cardstock - available in A4 and 8.5" X 11" sheet sizes - works well for such models. If one wanted to depict *Black Knight 15* (the round that carried the 36" copper sphere re-entry body), a Ping Pong (table tennis) ball

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could be used to depict the re-entry body (copper colored Ping Pong balls are available here:

<http://pingpongballs.net/products/Copper-2-Color-Custom-Printed-Blingin-Ping-Pong-Balls.html>

In addition, before printing it on a computer printer, the downloadable cardstock *Black Knight* model could be re-scaled if necessary so that its diameter would match the diameter of the Ping Pong ball (40 mm, in the case of the above-linked copper colored balls). For additional realism (flight points!), the copper colored Ping Pong ball could be allowed to separate and fall separately from the parachute-recovered rocket body; in fact, the timed descents of rocket-lofted Ping Pong balls are used for altitude determination in educational model rocketry experiments - please see the last page of this issue of *interspace..* here:

www.europerocketry.com/uploads/media/interspace-63.doc?PHPSESSID=8jeirr6m7b2b8sriconcmsuoq1

..Below are seven links to scale data and historical information on the *Black Knight* vehicles: Black Knight history pages (they have links to photos and dimensioned drawings):

www.spaceuk.org/bk/bk_pics/bk-pics.htm and
www.spaceuk.org/bk/bk.htm

Black Knight 15 with 36" copper sphere re-entry vehicle:

www.spaceuk.org/bk/bk_pics/10.htm

Black Knight article (it also contains links to more information):

[http://en.wikipedia.org/wiki/Black_Knight_\(rocket\)](http://en.wikipedia.org/wiki/Black_Knight_(rocket))

[NOTE: If this direct link does not work, go to the main Wikipedia page www.wikipedia.org and type in "Black Knight"]. Black Knight Astronautix.com article:

www.astronautix.com/fam/blanight.htm

Brief Black Knight article:

www.britain-in-space.co.uk/1950/blackknight.html

Various Black Knight images:

[www.google.com/search?](http://www.google.com/search?q=Black+Knight+rocket&hl=en&prmd=imvns&tbm=isch&tbo=u&source=univ&sa=X&ei=y40pUKz4FseWiQK5i4GoCg&ved=0CEkQsAQ&biw=792&bih=377)

[q=Black+Knight+rocket&hl=en&prmd=imvns&tbm=isch&tbo=u&source=univ&sa=X&ei=y40pUKz4FseWiQK5i4GoCg&ved=0CEkQsAQ&biw=792&bih=377](http://www.google.com/search?q=Black+Knight+rocket&hl=en&prmd=imvns&tbm=isch&tbo=u&source=univ&sa=X&ei=y40pUKz4FseWiQK5i4GoCg&ved=0CEkQsAQ&biw=792&bih=377)

I hope this information is useful to many readers of

interspace.. There is just so much out there when you start looking.

OTAKAR SAFFEK is 80!

MONDAY 27th August '12, saw this legend of *Československá socialistická republika ČSSR; Československá federativní republika ČSFR* and *Česká republika*, celebrate eight decades!

We offer many thanks for all you have done for the development of Space Modelling in your own county(s) and in the wider World, as one of the first pioneers of our sport. We hope you will continue to stimulate young enthusiasts with your knowledge and enthusiasm for many years to come. On the occasion of this jubilee, let us remember just some of Ota's achievements:

- a. Space models' World Champion in Class S7 - twice - in 1972 and 1974
- b. FOUR times Space Models' World Record holder, in classes S1D, S2B, S4A & S4C, in 1970
- c. CIAM 3rd Vice-President from 1992 to 1995
- d. CIAM Space Models Sub-Committee Chair, from 1973 to 1978 and also 1996
- e. Awarded the FAI Aeromodelling Gold Medal, in 1994, for his outstanding organisational abilities
- f. Awarded in April 2012's CIAM Plenary Meeting, with 50th Anniversary of FAI Space Modelling 1962 - 2012 Diploma, for his significant contribution to the development of Space Modelling, as one of 11 individuals and 9 organisations throughout the whole world

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g. Author of one of the first books on Space Modelling - "*Raketove modelarstvi*", published in Prague in 1975

Editor's note May Ota Saffek continue in good health, happiness and all the best for many years to come. Thanks are offered to Messrs Vladimir Hadač and Srdjan Pelagic for providing all these details.

ACME Italia says... *"Come to our Annual Rocketry Meeting ~ MIR 2012" ...12th, 13th, 14th October '12"* by Stefano Figini

MIR 2012 will take place on our launch field in *Fiorentina di Medicina* (close to Bologna, Italy), during the weekend of 12, 13 & 14 October. For 13 years, MIR is a meeting where modellers from many countries meet to share experiences and launch their rockets in a unique environment. Our launch field is one of the largest in Europe - 400 hectares, flat and free from any crops or trees and fully equipped, with secure storage facilities on-site.

Every flyer can participate, with any rocket of any size, which complies with NAR and Tripoli regulations. Timetable:

Friday 12 October: Experimental Day

Two free reloads for certification Level 2 attempts offered by ACME (please apply before at.. info@acmeitalia.org)

Saturday 13 October: Rocket Dinner

(typical Italian specialities!)

Spectacular High Power launches

Flyers from different countries, then...Dinner in a super new restaurant!

Come fly with us, or just to enjoy the sight of beautiful launches. **Come to MIR 2012!**

Registration is required to launch; no registration needed for spectators. Information, regulations, online registration on.. www.acmeitalia.org

Almost there...but not quite!
The interspace.. Book of Space Travels by the Editor

TRAPLET PUBLICATIONS have been in touch to tell me that the book at the heading is currently at the printers and that delivery is imminent.

Time to give a brief resume of the contents, which date back to the 1980s – which was when your Editor started. In addition, the genesis of Space Modelling in the United States is also given extensive coverage. Notable events are listed and naturally, lots and lots of notable personalities! Chapter headings are..

The Intro...2005, the year of the Frank Ehling Diploma *Where we are now and where we came from, over 50 years ago.*

1988-89-90 St Leonhard Modellraketen Festivals *Where we found a united Europe, in a continent of quantum change.*

Swiss RAK Cups *Into the 1990s and a resume of the second oldest Space Models' event.*

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World Champs in Florida 1992 *Where we saw Space Shuttle Endeavour launch from the Cape! Couple more World Champs from Poland and Slovenia too.*

Ljubljana.. *Into the Dragons' den! Where it is; what it is; why we all go there. Also, the legendary ARK Komarov...wot?!?*

WAGs and World Champs. *1st World Air Games in Turkey, plus World Champs in Romania and Slovakia.*

World Cups UK... *The Millenium signalled the Canterbury Cup series 2000-4.*

Another Day, another podium *Millenium medals, wherever your Editor travelled! Report of British juniors at the 2003 European Champs too.*

2005 and onward *Yet more World Cups. Lots and lots of them!*

The End of the Beginning *Catalunya Cups and a grand tour of the Balkans! 2009 European Space Modelling Champs report too.*

The Outro...at last! *Running up to 2012, including the 2010 World Champs. And..that's about it!*

The interspace.. *Book of Space Travels contains a real gallery of images taken from all over the World. Not just of Space Models, but people, buildings and sights. Not just about the Editor, but about real people who have contributed to the growth of our obsession. You'll love it.*

Now, what's that word again..

The Outro...

THAT'S all folks. The next issue will round off 2012 in style, with reports from the *Baikonur Cup*, *2nd Fenix Cup* and *34th Ljubljana Cup*. Also, the interspace.. *Space*

Modeller of 2012 will be announced! Now, where's that map!?!

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interspace..