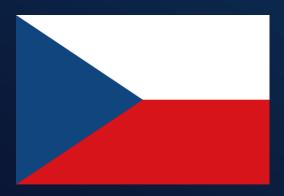


LIGHT AIRCRAFT ASSOCIATION of the Czech Republic



Jan Pařez jan.parez@fs.cvut.cz Oldřich Štumbauer stumbauer@gmail.com



LAA CR – Activities

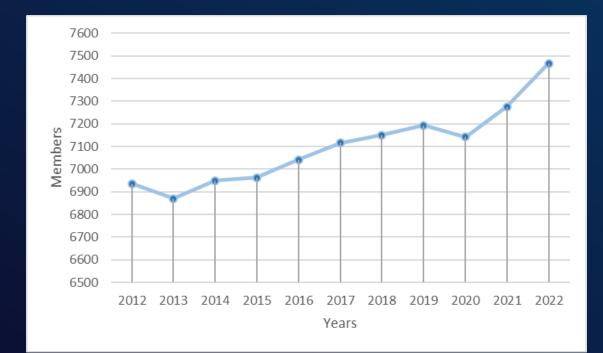
 Light Aircraft Association of the Czech Republic
 LAA CR is association of pilots, builders, designers, manufacturers and operators of light aircraft (Sport Flying Devices - SFD) with MTOM up to 600 kg.

- LAA CR is a competent authority for Certification, Licencing and Operation of microlights in the Czech Republic. This covers aerodynamically controlled microlight, paragliding, powered paragliding, hang gliding, gyroplanes, UL helicopters, UL hot air balloons.
- From this point of view it is unique in Europe.



LAA CR – Members

- It has over 7 500 members 7 900 registered aircraft and over 14 000 registered pilots.
 - The growing trend of pilots and members indicates an increasing interest in UL flying.





LAA CR – Idea

LAA CR covers 9 SFD categories:

- o UL aerodynamically controlled aeroplanes ULLa
- CG shift controlled aeroplanes ULLt
- Paragliders PK
- Hanggliders ZK
- Powered paragliders MPK
- UL helicopters ULH
- o UL powered gyroplanes– ULW
- o UL sailplanes
- o UL balloons

These are divided into 4 unions



LAA CR – Idea





LAA CR – Idea

- The idea of the LAA CR since has been established in 1990 is to provide the best environment for pilots of SFD to recreational and sport flying.
- In accordance with the technical requirements, it also ensures adequate conditions for the development, construction and sales of SFD.
- The LAA CR aims at the availability and safety in the light aircraft categories while maintaining the simplest and least costly organisational procedures.



LAA CR – Key factors

- The LAA CR has the same status as the CAA CR. This allows and authorises the creation of its own certification system.
- LAA creates a certification system offering the acceptable simplicity of certification while providing safety to aircraft design, building and operation.
- Result of being under CAA is possible to see in Slovakia and Poland – numbers of pilots and microlights in these two countries are just fractions of numbers in Czech Republic.
- The reason is simple the CAA thinks in terms of "big" aviation and JAR, CS etc. and the microlight environment needs greater flexibility.



Responsibility in Czech aviation

Position of each authorities in the CR





Responsibility in Czech aviation

Responsibility split between CAA CZ and LAA ČR based on the mass defined by Annex II of BR216/2008 paragraph e), f), g)

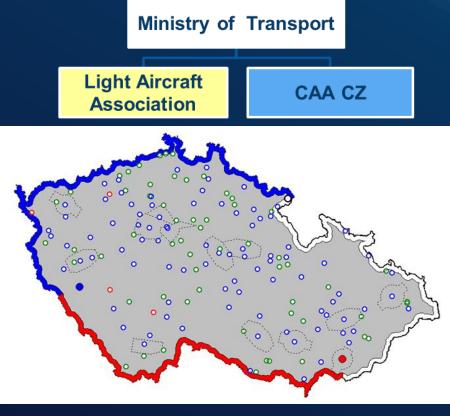
Responsibility of LAA CR - SFD -Airfields for SFD	Responsibility of the CAA All remaining aircraft - GA, commercial, aerobatic, etc. Aiports
	<image/>



Responsibility in Czech aviation

MTOM ≤ 600 kg

- 6598 microlight registered in LAA CR Register Out of that valid C of A had: • 1600 ULL
- 53 UL helicopters
- 52 UL autogyros
- 151 hang gliders
- 231 trikes
- 778 PPG



MTOM ≥ 600 kg

2660 aircraft registered in CAA CZ Register Out of that valid C of A had:

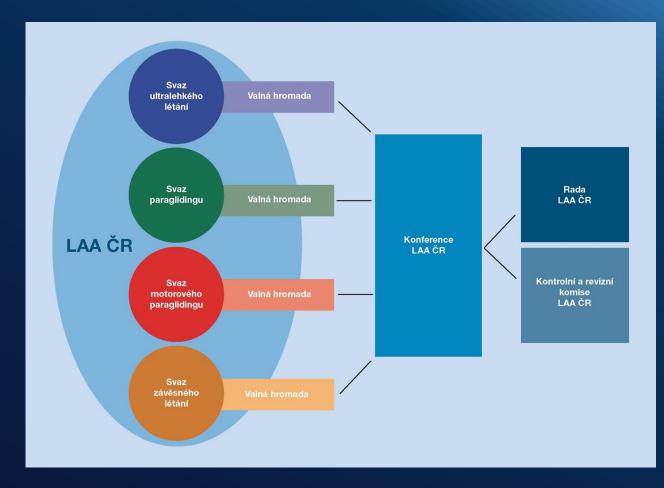
- 918 single piston engine airplanes
- 101 two engine airplanes
- 161 helicopters
- 1013 gliders
- 133 motorised gliders
- 243 baloons
- 2 airships

91 GA airports - 19 international airports 105 microlight airfields 4 Air force base Total 200 airports No restrictions at airports for microlights



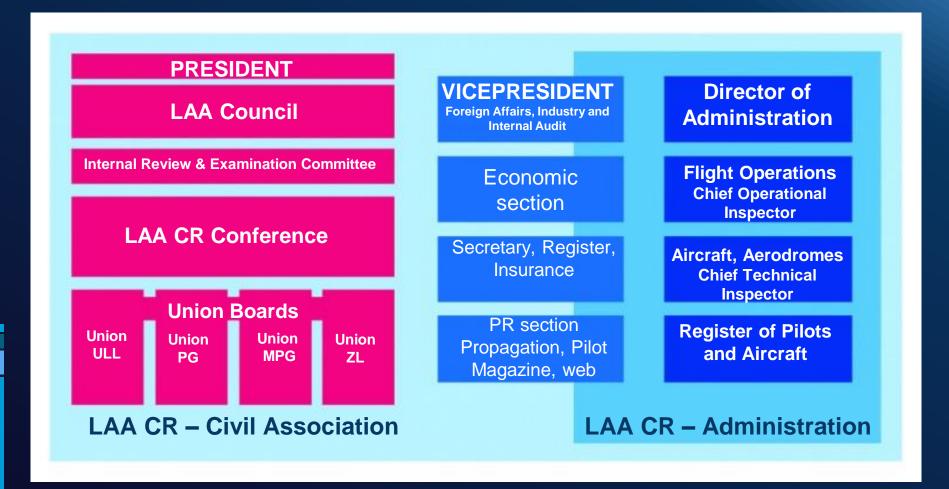
LAA CR – Organisational structure

- 4 Unions
- Microlight Fl.
- Paragliding
- Paramotors Fl.
- Hand-gliding
- LAA Conference
- LAA Council
 Audit and
 - Audit and Review Committee



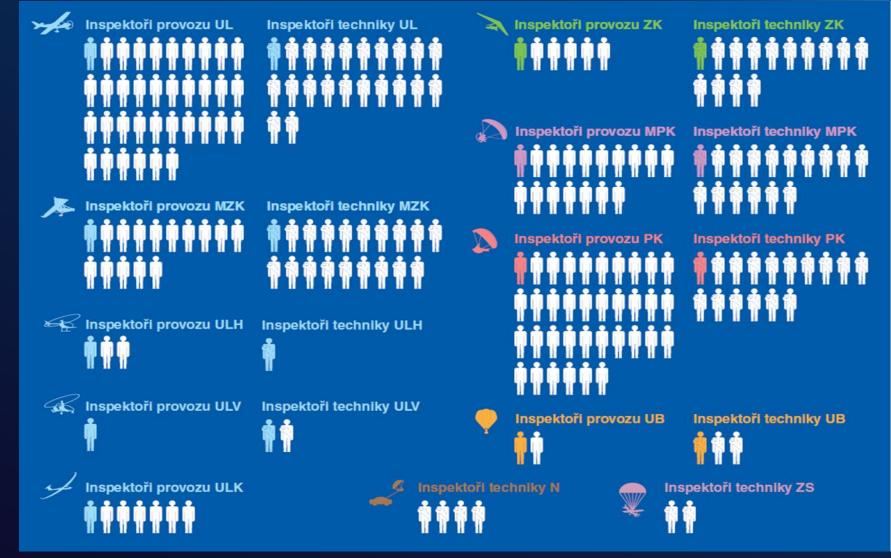


LAA CR – Organisational structure





LAA CR - Volunteer inspectors: flight operation and technics





Valid LAA rules and procedures EASA compliant:

LA 1, LA 2

- procedures for activities ensuring
- UL 1, ZL 1
 - rules for each kind of activities

UL 2/I, UL 2/II, UL 2/III, UL 2/IV, PL 2

- airworthiness requirements

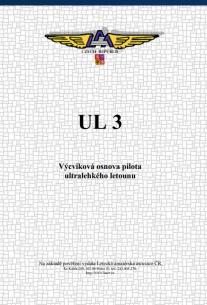
UL 3, UH 3, UV 3, ZL 3, PL 3, MPL 3

- training syllabus
- ZS
 - recovery system airworthiness requirements

SSR

 - approval procedures for operation of SSR transponders







Pilot licences, Technical licences

Licences are issued after meeting the conditions and technical rules.



This document does not conform to ICAO standards. It has been issued in compliance with the regulations valid in the Czech Republic.

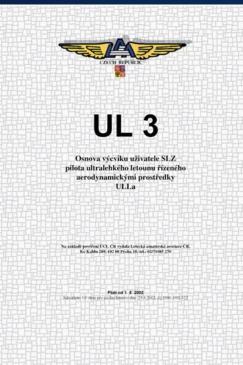
	RCRAFT ASSOCIA E CZECH REPUBI		and the			
TECHNICKÝ PRŮKA	Z / TECHNIC	AL CER	TIFICATE) / Valid to	Podpis	Razítko
Druh SLZ						
Poznávací značka		Počet členů p	osádky			
Typ / Název						
Výrobní číslo / Rok výroby						
Majitel, adresa, rodné číslo (IČ	ČO)					
				iznamy		
Datum vystavení průkazu / Da	ite of issue					
podpis		razítko				
Tento výrobek nepodléh na vlastní nebezpečí vývrtky a		trobacie, ü				



Training syllabi of the UL pilots

For each category of the UL aircraft (sports air vehicles) there is a training syllabus, that defines the minimum

requirements to obtain the piloting qualifications, training methodology and scope, its assessment etc.



Upravené znění ze. ne 1.5.2002 Osnovy výcviku ULLa – LAA ČR

StranaUL3-4 (celkem 25)

HLAVA 1 OSNOVA ZÁKLADNÍHO VÝCVIKU PILOTA ULLA.

CVIČENÍ	OBSAH CVIČENI		dvojí	sóło		
		letů	hod/min	letů	hod/mi	
1	Seznamovaci let.	1	201			
2	Přímý let, funkce řidících prvků.	3	lh			
3	Zatáčky o náklonu do 15ş.	3	1b		1.0.0	
4	Zatáčky o náklonu do 45ş.	3	1h		2008	
5	Nácvik vzletu,letu po okruhu a přistání.	30	2h50'			
6	Skluz, zábrana pádu, rychlost letu.	3	1b	1-11		
7	Opravy chybného rozpočtu a přistání.	10	lh	1997		
8	Nácvik bezpečnostního přistání.	1	lh			
9	Nácvik nouzového přistání.	15	1h30'			
10	Pfistání s bočním větrem.	3	15 '			
11	Let se zakrytými přístroji.	2	10*			
12	Přezkoušení před prvním samostatným letem.	1	15'			
13	Samostatný let po okruhu.			3	15'	
14	Kontrolni let.	1	10'			
15	Samostatný let po okruhu.			15	1h 40°	
16	Zatáčky o náklonu 15ş až 45ş.			3	Ih	
17	Zábrana pádu, skluz.			2	30'	
18	Nácvik rozpočtu.			10	1h	
19	Navigační let 200 km z mezipřistáním.	1	2h05'			
20	Navigačni let 100 km s mezipřistáním.	1	lh	12.00		
21	Navigační let 100 km samostatně s mezipřistáním.			1	1b	
Celkem		78	14h 35'	34	5h 25'	
ýcvik pil	ota ULLa celkem:	112 le	tů,	20 h	odin	



Certificates

They are issued after meeting the conditions and rules for issuance.





Register of pilots and SFD

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<u>P</u> rogram <u>F</u> ormuláře <u>D</u> o	uplňky <u>O</u> kno									<u>N</u> ápověda
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Přehled služeb	P FD 91833 Mečie Uložit 🗶 Storno 📓 Znovu načist 🎭 Nový 🕵 Vyhledat 🖂 • 🖾 • Další • 📿 •									
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Plochy		Název firmy:	Přenosná zn.	NeReg 🗆	NA 🗆	Služby Součásti Poruchj	y Vytvořil:	Šormová Iveta		
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		Narození:	Pozn. značka	OK NUR 23		17.10.2008 9 Obrázek	Typ poznámky:		•	
		Příslušnost:	Název	CLASSIC		17.10.2008 § Obrázek 17.10.2008 § Obrázek	- Stav:		•	
	2:5	Zařazení: 28.10 Vvřazení:	Výrobní číslo	X 01 Bok:		17.10.2008 9 Obrázek	Datum zpracování:	17.10.2008	-	
		Zařazení (funk		Aerospool Cz. s.r.o.		1.12.2010 6: Text En	n Poznámka:		_	
		Clen LAA Č	Hmotnosti EW		450	4.9.2010 6:4 Text En	_			
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		Inspektor p		Czech Republic	•		📜 Obsah 💆 N	Váhled 🎹 Propojení 🕌:	Strom	
		Autorizovar	Aktualizovano: Vydán dne:	30.12.2010 9:42:44 17.10.2008 Sta	av:		👌 Yložit 🛛 🕎 Zobr	razit 🤌 Ul <u>o</u> žit 🛛 Velikost 🛽	142 006 B	
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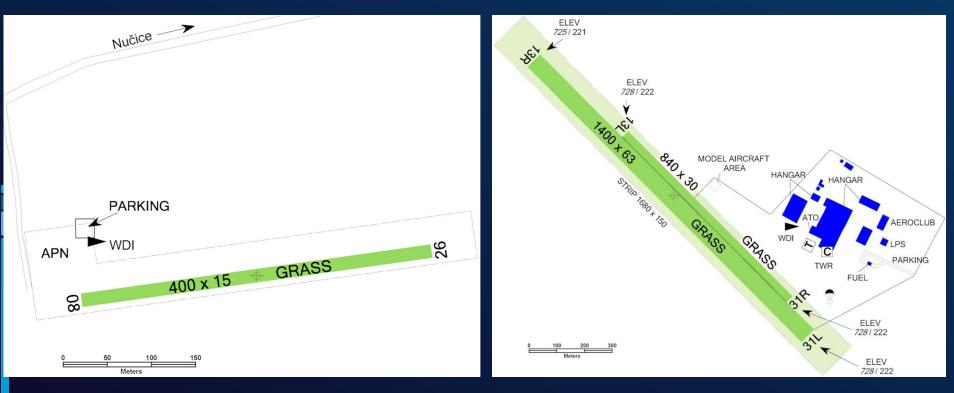
- Investigating incidents under the following conditions:
 - o No serious injury
 - No damage to 3rd parties
 - No fatal damage to the aircraft





LAA CR – ULL airfields

SFD airfields compared to GA airport





LAA CR – ULL airfields

105 SFD airfields





LAA CR – Rulemaking Process

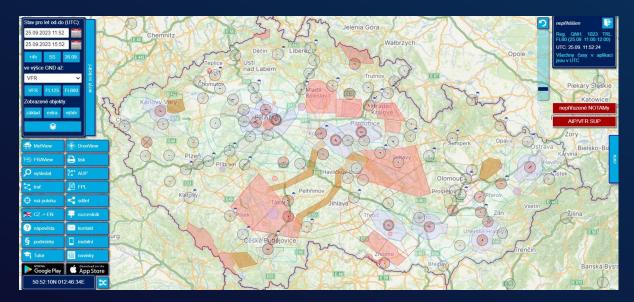
- Rulemaking Proposal is given by respective Chief Inspector
- Proposal Discussion with LAA CR voluntary inspectors
- Discussion and incorporation of comments of LAA CR unions
- Final Assessment by LAA CR Administration and Civic Association
- In case of dissagreement finding the compromise
- Final draft proposal submitted to the Ministry of Transport for final approval
- Settlement of comments from Ministry of Transport
- Publication of new Regulation



Services for SFD pilots ad LAA members

Member Services

- Magazine Pilot: Monthly published magazine with LAA CR + Bulletin
- Web: <u>www.laacr.cz</u> (actual restrictions and limitations of ATC, practical weather information, Aisview map, Notams, AUP etc...)
- Aeronautical Charts





LETECKÁ MAPA ČESKÉ REPUBLIKY / AERONA

DATAR

ČESKÁ REPUBLIKA

OVENSKÁ REPUBLIKA

LETECKY ATLAS CR

Services for SFD pilots ad LAA members

3

BULLETIN

Služby členům LAA ČR:

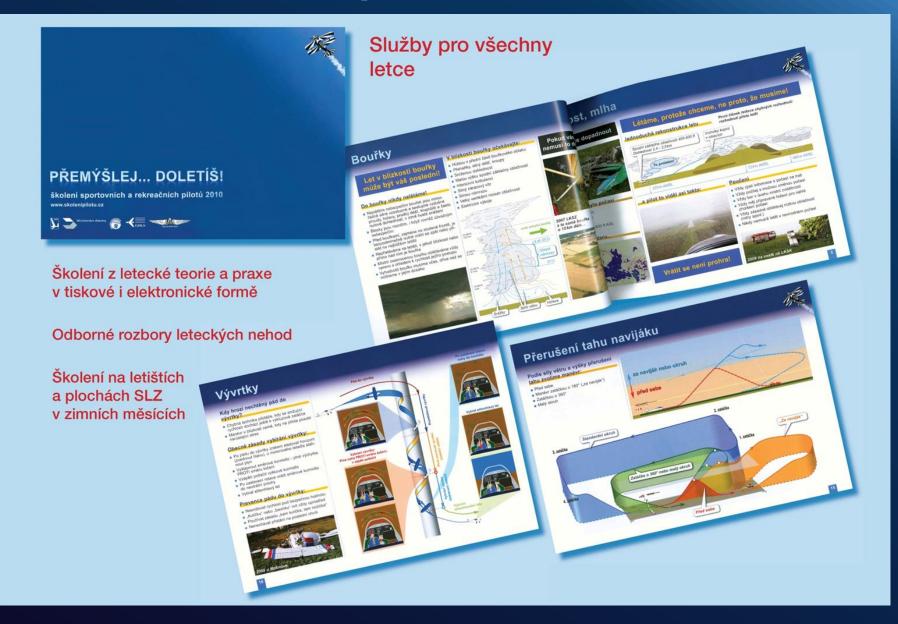
Členský časopis Pilot LAA ČR včetně odborných Bulletinů LAA ČR a speciálních příloh

Letecké mapy v měřítku 1:500 000 a 1:200 000

Různé další odborné materiály v tiskové i elektronické formě



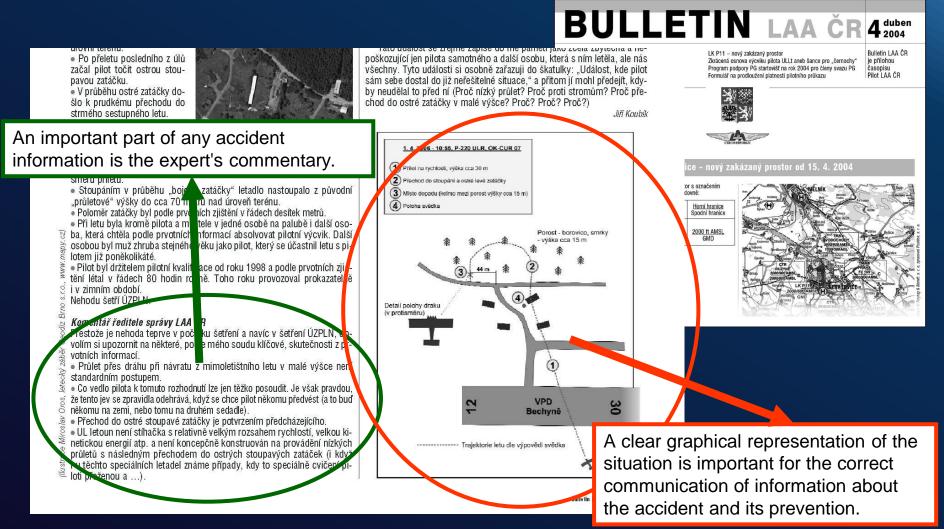
Services for SFD pilots ad LAA members





Prevention and training

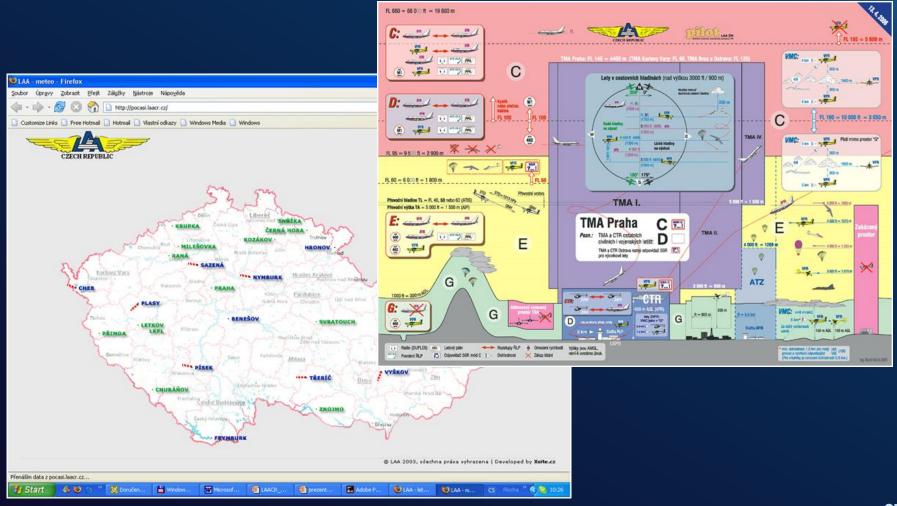
Actual, final and summary accident analyses





Prevention and training

Other safety-enhancing activities of the LAA





Related activities LAA CR

- Active membership in EMF (European Microlight Federation) Membership in several EASA working groups
- Active membership in EHPU (European Hangliding & Paragliding Union)
- Active membership in FAI committees
 - o CIMA
 - CIACA Amateur Built Aircraft Commission
- Representation of the Czech Republic abroad in cooperation with the Ministry of Defence, the CAA and other state institutions
 - o USA, Europe, GB, Asia, Middle East, Georgia, Mongolia
- Active participation in:
 - ASTM International meetings&committes
 - AERO Friedrichshafen exhibition and presentations
 - AirVenture Oshkosh
 - LAMA EUROPE

Czech Aviation Catalogue publishing: www.czechaviation.info



LAA CR pilots organize many aviation events







- Friendly meetings
- Exchange of experience
- Recreational flying



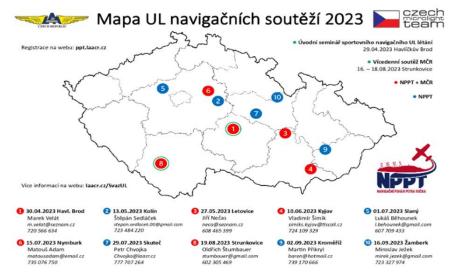
LAA CR - sport

LAA CR organizes the national championship in FAI disciplines

Ultralight flying - Microlight Championship, Air Navigation

Paragliding - Landing accuracy Powered paragliding Hang gliding

Kalendář soutěžní UL sezóny 2023 je tu!









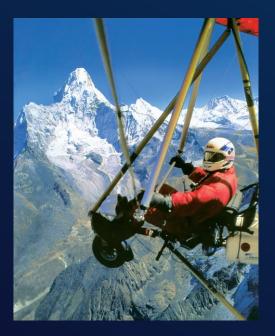
LAA CR - sport





LAA CR - Records

 The sportsman of the LAA Czech Republic have a number of national and world records and extraordinary performances



Annapurna's record-breaking flight during the expedition of LAA CR Himalaya High in 1993 World altitude record J. Béma and O. Záluská (8 188 m on 13 September 2010)











Before the national record Ing. V. Chvály and M. Dedery in the unpowered flight of UL aircraft (105,59 km on 15. 8. 2009)



LAA CR - The Sky Angels Club

- Organization of volunteers giving reports on accidents directly during the flight (fire, road accidents etc...)
- A useful tool for immediate response of emergency services. Prevention of major damage





Czech light aerospace industry

- The Czech Republic is one of the European leaders in the production of light sport aircraft (MTOM < 600kg) - together with Germany, Italy and France
- More than 20 manufacturers of complete light aircraft (UL and LSA)
- 9 manufacturers of parts and components for these aircraft
- 11 manufacturers of accessories



Czech light aerospace industry





Czech light aerospace industry

- Tradition
- Proven Experience LAA has enough qualified experts for all sectors of its activities
- Efficient system for light aircraft MTOM≤600 kg
- Very good safety record
- Excellent references



Conclusion

- LAA is a pilots association and administration authority for light aircraft under 600kg MTOM
- LAA is responsible for pilot training, aircraft and airfield certification through flight inspectors and technicians
- Manages the register and database, investigates aviation incidents
- Pilots Associations, who choose representatives in their unions



Thank you for your attention



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