Information Item

Swiss Committee on Space Research (CSR)

Xin Wu, CHIPP Observer in CSR

CHIPP Board Meeting, June 29, 2015

Background Information

- CSR is an organization within Swiss Academy of Natural Sciences (SCNAT)
  - An organization similar to CHIPP Board, but it is not a College of Professors
    - Members are nominated by CSR and elected by the SCNAT Executive Board
  - Meeting twice a year
- Mandate (from CSR profile)
  - The CSR coordinates and stimulates space research in Switzerland.
  - It maintains contact with international organisations like the European Space Agency ESA and the Committee of Space Research COSPAR. It produces a report every two years on space science activities in Switzerland.
    - http://spaceresearch.scnatweb.ch/documents/brochure2012-2014.pdf
  - A main objective of the CSR is to use the expertise of the community for scientific policy advice of federal agencies like the Swiss Space Office SSO and the Federal Department of Foreign Affairs EDA.

CSR Current Members

- Werner Schmutz (PMOD/WRC, Solar), president
- Kathrin Altwegg (UNIBE, Planetary), Sam Krucker (FHNW, Solar), Domenico Giardini (ETHZ, Geophysics), Anton Ivanov (EPFL, Space Tech), Niklaus Kaempfer (UNIBE, Atmospheric), Alexandre Refregier (ETHZ, Cosmology), Volker Gass (EPFL, Space Tech), Martin Pohl (UNIGE, Astroparticle), Didier Queloz (UNIGE, Astronomy), Nic Thomas (UNIBE, Planetary), Roland Walter (UNIGE, Astrophysics), Georges Meylan (EPFL, Cosmology), Paolo Ceppi (SUPSI, Space Tech), Thomas Schildknecht (UNIBE, Astronomy), Marcel Egli (HSLU, Space Biomedical), Stefan Wunderle (UNIBE, Climatology), Stéphane Paltani (UNIGE, Astrophysics)
- Ex Officio
  - Tristan Maillard, SNF representative
  - Andreas Werthmueller, SSO representative
  - Natália Archinard, FDFA representative
  - Peter Guggenbach, Swiss Space Industry representative
  - Klemens Hocke, Link to the Swiss Commission on Remote Sensing
  - Xin Wu, Link to CHIPP

Last Meeting at March 31th 2015

1. Welcome (and head count of lunch attendees)

2. Minutes of the CSR meeting of 13. October 2014 (W.S.)

3. Finances
   - 2015 budget (WS)

4. CSR Members
   - status (WS)
   - proposal for new members (all)

5. ESA Science program
   - Status science program (SSO: AW)

6. Report from the scnat/MAP meeting 24.3.15 (WS)

10. Discussion item
    - Strategic aim of the CSR (all)
      (Document CSR_SPACE-cost-overview-2015-2021_27.3.15.xlsx)

11. Short communications
    a) Micro Gravity - overview
    b) Earth Observations - overview (Roadmap)
    c) other (all)

12. Varia, next meeting

About 13:00 - lunch

Cost Overview 2015-2017

Space Science Projects Status and Cost 2015-2021 (in MEUR)

Institute	Mission	Status 03.15	Experiment	Agency	ESA call	Co-Op	2015	2016	2017	2018	2019	2020	2021	Sum
UGE+DPNC	PANGU	prop. eval.	PANGU	ESA	CN 2021	INFN, PMO, IHEP		0.2	0.2	1.0	1.0	1.0	2.0	5.3
UGE+DPNC	AstroGam	prop. eval.	AstroGam	ESA	M4 2025	INAF, CSNSM, INFN		0.2	0.2	1.0	1.0	1.0	1.0	4.3
DPNC	HERD	proposal	HERD	China		IHEP, INFN		0.2	0.2	0.2	1.0	1.0	2.0	4.5
UGE+DPNC	LOFT	prop. eval.	contribution	ESA	M4 2025		0.1	0.1	0.2	0.8	0.8	0.8	0.2	3.0
PMOD/WRC	FY-3E	phase A	JOIM	CMA		CIOMP	0.1	0.2	1.7	0.5				2.5
PMOD/WRC	SOLAR C/ EPIC	prop. eval.	IM	ESA	M4 2025	D, JAXA		0.2	0.2	0.2	0.2	0.5	1.0	2.3
PMOD/WRC	HiRISE	prop. eval.	PREMOS II	ESA	M4 2025	F		0.2	0.2	0.3	0.4	0.5	1.0	2.6
PMOD/WRC	SUITS/SWUSV	prop. eval.	SUPR	ESA	CN 2021	F, CAS		0.1	0.2	0.7	1.0	1.0		3.0
eSpace EPFL	CubETH	Phase B	GNSS payload	CH-SSO	tbd (GSTP)		0.1	0.5	0.3	0.1				1.0
eSpace EPFL	CADRE	Phase 0	ADR demonstration	CH-SSO	tbd (GSTP)		0.1	1.0	5.0	3.0	2.0			11.1
eSpace EPFL	CleanSpaceOne	Proposal	Deorbit SwissCube	CH-SSO	tbd		no funding profile							
UBE/MASS	IMAP	idea	ENA-Lo, ISM	NASA		SWRI, LMATC, UNH		0.2	0.4	1.0	1.0	0.4		3.0
UBE/MASS	IVO	idea	INMS	NASA		UA, APL, IRF, TUB		1.0	3.0	3.0	1.0			8.0
UBE/MASS	Chagall	idea	INMS	NASA		UMaryland, JPL, APL		1.0	3.0	3.0	1.0			8.0
UBE/MASS	Corsair	idea	INMS	NASA					2.0	2.0	2.0	2.0	2.0	9.0
UBE/MASS	Mars Lander	idea	CAMAM	CNSA				1.0	2.0	2.0	2.0	2.0	2.0	11.0
UBE/MASS	Mars Orbiter	idea	TIMS & ENA	CNSA				0.5	0.7	0.8	0.8	0.8	0.8	4.4
UBE/MASS	JUICE	Phase B2	PEP, NIM	ESA	L1 2022			1.0	2.0	3.0	3.0	3.0	2.0	14.0
UBE/REM	JUICE	Phase B2	GALA	ESA	L1 2022			0.2	0.5	0.8	0.8	1.0	0.7	4.0
UBE/IAP	JUICE	Phase B2	SWI	ESA			0.7	0.8	0.7	0.8				3.0
UBE/EXO	PLATO	Phase B	TOU Mechanical Stru	ESA	M3 2024		0.3	0.7	1.0	2.0	2.0	3.0	2.0	11.0
UGE	ATHENA			ESA	L2 2028					0.1	0.2	0.2	0.5	1.0
UZH+UGE	eLISA			ESA	L3		no funding profile							
							1.4	9.2	23.6	26.2	21.0	18.0	16.7	115.0

only projects included that are not yet funded (in particular CHEOPS and projects for M1 and M2)