FINAL PROGRAMME

Programme at a glance

Wednesday 12 June 2013				Thursday 13 June 2013				Friday 14 June 2013	
08h30	h30 Welcome			08h30 Welcome				09h00	Welcome
	Opening				Launch range facilities	Launch complex	Test facilities		
09h00	Welcome addresses			09h00 10h30	Session 2 - Environment - regulations - safety	Session 2 - Exploitation - Operations	Session 2 - Maintenance and exploitation	09h30 10h30	Plenary session 2
10h30	Plenary session 1								
	Coffee break			Coffee break				Coffee break	
11h00 12h00	Plenary session 1			11h00 En	Session 2 - Environment - regulations - safety	Session 2 - Exploitation - Operations	Session 2 - Maintenance and exploitation	11h00 12h00	Plenary session 2
								12h00 12h30	Closing
	Lunch			Lunch					
	Launch range facilities	Launch complex	Test facilities		Launch range facilities	Launch complex	Test facilities		
14h00 15h30	Session 1 - Space port architecture - operations	Session 1 - Design and concepts	Session 1 - Description and general characteristics	15h30	Session 3 - Communications - tracking stations	Session 3 - Specific technical aspects	Session 3 - Sub systems and techniques		
Coffee break				Coffee break					
16h00 17h30	Session 1 - Space port architecture - operations	Session 1 - Design and concepts	Session 1 - Description and general characteristics	16h00 17h30	Session 3 - Communications - tracking stations	Session 3 - Specific technical aspects	Session 3 - Sub systems and techniques		
				201	20h Dining cocktail			S	

Wednesday 12 June 2013

8h30-9h30 Opening

Welcome addresses: Michel EYMARD, CNES, Paris, France

9h30-10h30 Plenary session 1

Chairs: Michel Eymard and Bernard Brandt

001 - Baikonur Proton Launch Operations

James Youdale ILS, Belcastel, France

002 - Soyuz in French Guiana: summary of a success story

Jean-Marc Astorg CNES, Paris, France

10h30-11h00 The coffee breaks are sponsored by TSAT.

11h00-12h00 Plenary session 1

Chairs: Michel Eymard and Bernard Brandt

003 - To be confirmed - Alcantara Space Launch

Mauricio Lima, Devanir Pinheiro Correa, Marco Antonio Vieira de Rezende *CLBI, Alcantara, Brazil*

O04 - The Present and Trend of China's Long March Vehicles Ground and Launch Systems Processing

Xirong Yang

China Academy of Launch Vehicle Technology, Beijing, China

12h00-14h00 The lunch is sponsored by APCO.

14h00-17h30 Launch Range Facilities (Room Ariane) - Session 1 - Space port

architecture - operations

Chairs: Michel Starozinski and Jacques Gigou

14h00 O05 - From one shot EGSE to generic EGSE

Simon Klingler

CLEMESSY, Mulhouse, France

14h30 O06 - Withdrawn

15h00 O07 - Spaceport design for safety

Jean-Pierre Trinchero CNES, Toulouse, France

15h30-16h00 The coffee breaks are sponsored by TSAT.

16h00 008 - Withdrawn

16h30 O09 - A Digital Management Platform for Working Process

Control in Rocket Launch Field

Xirong Yang

China Academy of Launch Vehicle Technology (CALT), Beijing, China

17h00 O10 - Research on power supply and grounding system of

Aerospace Launch Facility

Xiang Zhang

China Academy of Launch Vehicle Technology, Bejing, China

14h00-17h30 Launch Complex (Room Soyuz) - Session 1 - Design and concepts

Chairs: Pier-Michele Roviera and Jacques Bertrand

14h00 O11 - Rocket Sled Track Facility as a Test Platform and

a Launch Assist of Space Planes

Nakata Daisuke

Muroran Institute of Technology, Muroran-shi, Japan

14h30 O12 - Reuse of former launch complex

Marc Vales

CNES, Paris, France

15h00 O13 - Integrating Sustainable Practices into Ground Based

Space FacilitiesMike McCarthy

Reynolds, Smith & Hills, Inc., Jacksonville, FL, United States

15h30-16h00 The coffee breaks are sponsored by TSAT.

16h00 O14 - A next generation launch complex for a next generation

launcher: Ariane 6 AIT facilities and Launch Pad

Christian Canart CNES, Paris, France

16h30 O15 - An integrated Launch Vehicle – Launch Complex approach

to development of a New European Launch System

Kate Underhill

MT Aerospace AG, Augsburg, Germany

17h00 O16 - An Analysis of the Design Requirements of General

Assembly-test Building at Large Manned Spacecraft Launch Site

Zhao Ting

China Academy of Launch Vehicle Technology, Beijing, China

14h00-17h30 Test Facilities (Room Vega) - Session 1 - Description and general

characteristics

Chairs: Anja Frank and Jacques Tanguy

14h00 O17 - Cryogenic tests facilities and achievements for launcher

tanks developments and technologies

Sébastien Bianchi

Air Liquide Advanced Technologies, Sassenage, France

14h30 O18 - BEAP: A5 or VEGA Booster test Bench in flight position

Frédéric Munos

CNES, Kourou, France

15h00 O19 - Overall panorama of the test facilities in snecma vernon

Philippe Caisso

Safran Group - Snecma Space Engines Division, Vernon, France

15h30-16h00 The coffee breaks are sponsored by TSAT.

16h00 O20 - Multifunctional Robot Test Facility for On-Orbit Operation

and Extraterrestrial Surface Exploration

Benjamin Girault

DFKI Robotics Innovation Center, Bremen, Germany

16h30 O21 - PF52, Test facility for cryogenic subsystems and Vinci

engine

Philippe Magnant

Snecma, Vernon, France

17h00 O22 - Altitude Engine Test Facility for Korea Space

Launch Vehicle II 2nd Stage Engine

Seung-Han Kim

Korea Aerospace Research Institute, Daejeon, Korea

Thursday 13 June 2013

09h00-12h30 Launch Range Facilities - Session 2 - Environment - regulations

- safety (Room Ariane)

Chairs: Jean-Pierre Trinchero and Françoise Perrel

09h00 023 - Reliable Propellant Service for Chemical Propulsion

Spacecrafts, Hypergolic Propellants, Ground Infrastructure,

Propellant Handling Stefan Ziegenhagen

Astrium GmbH Space Transportation, Möckmühl, Germany

09h30 024 - Chemical's and pressurized equipment's risks prevention

Olivier Richard, Lionel Guillaume, Franck Cantié,

VINCI Energies, Saint Denis, France

10h00 O25 - Historical evolution of toxic propellant use and waste

treatment for space industry.Jean-Francois Niccolai, Marco Cencetti

CNES, Toulouse, France

10h30-11h00 The coffee breaks are sponsored by TSAT.

11h00 O26 - Regulating Spaceports for Commercial Sub-orbital

and Orbital Flights

To be confirmed

European Aviation Safety Agency (EASA), Cologne, Germany

11h30 O27 - Skin mode Doppler radar for safety mission

Clément Baron

CNES, Toulouse, France

12h00 O28 - Withdrawn

09h00-12h30 Launch Complex - Session 2 - Exploitation - Operations

(Room Soyuz)

Chairs: Christian Lardot and Pier-Michele Roviera

09h00 O29 - Evolution of ground control systems: Same functions,

different known needs

Angel Ramirez

GTD, Barcelona, Spain

09h30 O30 - Industrie Cometto S.p.A.: the right ground support for the

best result in the space

Simone Ferriani

Industrie Cometto S.p.A, Borgo San Dalmazzo, Italy

10h00 O31 – Strategy for obsolescence treatment of launch pad and

launcher control systems

Sébastien Herpoel

Thalès Alenia Space, Charleroi, Belgium

10h30-11h00 The coffee breaks are sponsored by TSAT.

11h00 O32 - World Launch Sites. Ways of Their Reliability Increasing

and Costs

Reduction Offered by Ukrainian Experts Viacheslav Pronskyi, Yulii Dragomyretskyi

Dneprotyazhmash PJSC, Ukraine

11h30 O33 - Exploitation of the Soyuz launch pad in French Guiana

François Barreau

Arianespace, Evry-Courcouronnes, France

12h00 O34 - Operation of the ARIANE 5 / ELA 3 launch complex

Christian Lardot

ARIANESPACE, Evry Courcouronnes, France

09h00-12h30 Test Facilities - Session 2 - Maintenance & exploitation

(Room Vega)

Chairs: Frédéric Munos and Anja Frank

09h00 O35 - Statistical Methods for the evaluation of the quality of

measurement data on the test benches

Wolfgang Stuchlik

DLR, Hardthausen, Germany

09h30 O36 - - Maintenance of test facilities for rocket engines

Rainer Schürmanns

DLR e.V., Hardthausen, Germany

10h00 O37 - Modification of the DLR High Pressure Test Facility P3.2

to perform hot fire tests of Stage Combustion Rocket Engines

on Pre-Burner and Main-Chamber level

Volker Kraft

DLR German Aerospace Center, Hardthausen, Germany

10h30-11h00 The coffee breaks are sponsored by TSAT.

11h00 O38 - Operation of Test Facilities for Upper Stage Engines:

High Altitude Test Facility P4

Christopher Gusinde

German Aerospace Center (DLR), Hardthausen, Germany

11h30 O39 - Improvement on Rocket Engine Test Facility

Concerning Maintenance and Operation

Yohei Ogawa

JAXA, Miyagi, Japan

12h00 O40 - Design and Testing of Water Based Rocket Engine

Exhaust

Acoustic Absorber on Ground Test Facility

Philipp Kallina

German Aerospace Center (DLR), Hardthausen, Germany

12h00-14h00 The lunch is sponsored by Telespazio.

14h00-17h30 Launch Range Facilities - Session 3 - communications

- tracking stations (Room Ariane)

Chairs: Michel Starozinski and Jacques Gigou

14h00 O41 - STFO (Optical fiber transmission system for satellite):

Objective and evolution for A6 / ELA4

Nicolas Hugues

CNES, Toulouse, France

14h30 O42 - Launcher Tracking Support from ESTRACK

Gerhard Billig

ESA, Darmstadt, Germany

15h00 O43 - Mobile Telemetry stations concept for launcher tracking

Jean-Yves Bedu

Telespazio France, Kourou, French Guiana

15h30-16h00 The coffee breaks are sponsored by TSAT.

16h00 O44 - European Tracking Stations Networks Evolutions from

Xmas 1979 to now

Jacques Barbier, Jérôme Lavernhe, Michel Starozinski

CNES, Toulouse, France

16h30 O45 - Meteorological Data Analysis and Strategy of

Collaboration for NARO Launch Operation

To be confirmed

Korea Aerospace Research Institute, Goheung, South Korea

17h00 O46 - Introduction into Ground Telemetry System of Naro Space Center and Operation Results at KSLV-I Launch Mission

DongHyun Kim

KARI (Korea Aerospace Research Institute), Goheung-gun, South

Korea

14h00-17h30 Launch Complex - Session 3 - Specific Technical aspects

(Room Soyuz)

Chairs: Jacques Bertrand and Christian Lardot

14h00 O47 - Optimization costs by mutualisation of chilled

and hot water production system

Serge Sellerian

CNES, Toulouse, France

14h30 O48 - Air liquide involvement in launch pad ground / launcher

interfacesFrançois Barbier

Air Liquide Advanced Technologies, Sassenage, France

15h00 O49 - Soyouz Launch Complex Infrastructures

Pierre Guilhem

CNES, Toulouse, France

15h30-16h00 The coffee breaks are sponsored by TSAT.

16h00 O50 - Twin screw mixer & continuous process -

A credible solution for solid propulsion

Philippe Cloutet

Herakles (Safran Group), Le Haillan, France

16h30 O51 - "Historic and state of the art: the lightning protections

of the space launch pads on the Guyana Space Center

(ARIANE 5, VEGA, SOYOUZ)"

Philippe Curot

CNES - Launchers Directorate, Toulouse, France

17h00 O52 - Launch Pad Acoustic Suppression System for next

generation Rocket Boosters

Singari Reddeiah

Indian Space Research Organisation(ISRO), Sriharikota, India

14h00-17h30 Test Facilities - Session 3 - Sub systems & techniques

Chairs: Jacques Tanguy and Frédéric Munos

14h00 O53 - SOWARLA, Solar Assisted Water Treatment,

DLR test centre Lampoldshausen

Rainer Schürmanns, Christopher Gusinde

DLR, German Aerospace Center, Hardthausen, Germany

14h30 O54 - Evaluation of numerical bus systems used in

rocket engine test facilities

Volker Schmidt

German Aerospace Center (DLR), Hardthausen, Germany

15h00 O55 - The experimental platform FAST: Facilities for

Aerothermodynamics & Supersonic Technologies

Viviana Lago

Laboratoire ICARE, CNRS, Orléans, France

15h30-16h00 The coffee breaks are sponsored by TSAT.

16h00 O56 - Cryo-laboratories for test and development of

Propellant storage and management technologies

Jens Gerstmann

German Aerospace Center - Institute of Space Systems,

Bremen, Germany

16h30 O57 - Cryo Upper Stage Tank Demonstrator

Jörg Klatte

Astrium GmbH, Bremen, Germany

17h00 O58 - Research On Launch Vehicle Test And Virtual Launch

System Based On Model

Linna Wang

China academy of launch vehicle technology R&D center, Beijing, China

20h00-23h00 The dining cocktail is sponsored by Arianespace.



Friday 14 June 2013

09h30-12h00 Plenary session 2

Chairs: Michel Eymard and Bernard Brandt

O59 - Presentation of the French Guiana launch complexes Jacques Bertrand *CNES, Toulouse, France*

O60 - Reconsideration and conception of H-IIA, H-IIB and next generation facilities

Isao Kotani Japan Aerospace Exploration Agency, Ibaraki-ken, Japan

10h30-11h00 The coffee breaks are sponsored by TSAT.

061 - Term Prediction of Vostochny Cosmodrome Development in Support of Space Activity

Alla Serikova Central Research Institute of Machine Building (FSUE/TSNIIMASH), Korolev, Moscow region, Russia

O62 – To be confirmed - Centre Spatial Guyanais : European Space Port *To be confirmed CNES, Kourou, France*

12h00-12h30 Closing

POSTER EXHIBTION

Launch Range Facilities

P01 - Low Profile and High Gain Yagi Wire-Patch Antenna for TT&C Applications

Hongjiang Zhang

China Academy of Launch Vehicle Technology, Beijing, China

P02 - An Analysis of the Design Requirements of General Assembly-test Building at Large Manned Spacecraft Launch Site

Zhao Ting

China Academy of Launch Vehicle Technology, Beijing, China

P03 - Environmental protection technology of Satellite-rocket horizontally docking

Zhenyu Wu

Beijing Institute of Aerospace Systems Engineering, Beijing, China

P04 - Design of a Class of Communication Network of Drive Control System of Movable Launch Platform

Daoping Li

Beijing Institute of Space Launch Technology, Beijing, China

P05 - Withdrawn

P06 - SOYUZ IATR (Integrated & Active TM Repeater)

Benoit RATTI

CNES, Toulouse, France

P07 - The Research of Spacecraft Automatic Test System

Xiaojun Liu

Research & Development of China Academy of Vehicle Technology, Beijing, China

P08 - Withdrawn

Launch Complex

P09 - The Method and Development of The Launch Vehicle Verticality Adjustmeng

Wu Mengqiang

Beijing Institute of Space Launch Technology, Beijing, China

P10 - Storable propellants: risks and stakes

Olivier Richard, Lionel Guillaume, Franck Cantié, VINCI Energies, Saint Denis, France

Test Facilities

P11 - Computer security in context of test bench risk management

Volker Schmidt German Aerospace Center (DLR), Hardthausen, Germany

P12 - Validation and Qualification of a new test facility

Peter Lutz ESA, Paris, France