



SWITCH *to*
SPACE

October 8, 2018

Egmont Palace, Brussels

ABOUT

Space activities cover nowadays a broad range of fields attracting more and more international partners from industry, SMEs, research institutions, and governments. Moreover, technology transfer between terrestrial and space applications as well as the emergence of the 'Newspace' have contributed to attracting entrepreneurs to a domain traditionally limited to national and international space agencies.

In line with this trend, the European Space Agency has adopted the concept of Space 4.0, in which interactions between governments, the private sector, civil society, and policymakers are strengthened. It is further acknowledged that the European space sector can be competitive only by fully integrating into European society and economy.

Worldwide, space has started attracting more and more professionals from sectors originally with few or no links with established space activities. As a consequence, universities have diversified their curricula and included space studies in their programmes.

More than ever, multidisciplinary approaches have become a key factor in this new space era and the proposed event 'Switch to Space' aims at contributing to raising students' awareness.

I ... had a dream !

Organizing a huge event that will help you to take the best decision for your future!

During your life you will work at least 45 years, "Switch to Space" intends to inform you about all exciting opportunities in the Space sector.

Don't miss this chance!

Dominique Tilmans



PROGRAMME



08:45—09:15 **Registration**

09:15—12:30 **Plenary Session**

09:20 – 09:30

Welcome address

Didier Reynders - Vice Prime Minister - Minister Foreign Affairs

09:30 – 09:40

The space vision for Belgium

Zuhal Demir - Secretary of State Scientific Policy

09:40 – 09:50

Why “Switch to Space”

Dominique Tilmans- Chair of YouSpace

09:50 – 10:05

Space in a changing world

Frank de Winn - Head of the European Astronauts Center - Köln

10:05 – 10:30

Components of Space Missions: satellite, launcher, ground segment, space Environment

Jean-Jacques Tortora - Director of ESPI

10:30 – 10:40

Main European players in space

Lionel Poncelet - YouSpace member

10:40 - 11:10 **Coffee break**

11:10 – 11:25

Future Work/Working Patterns in the Aerospace Sector

Eric Morel de Westgaver - Director of Industry - ESA

11:25 – 11:35

EUMETSAT: monitoring weather and climate from space

Paul Counet - Head of Strategy & International Relation - Eumetsat

11:35 – 11:50

Space – a truly European project

Pierre Delsaux - Deputy General Director DG Growth - European Commission

11:50 – 12:40

The space Business in Belgium

- Ground Segment and data - *Thierry Du Pré-Werson- CEO Spacebel*
- New End User Markets – The Next Generation of Satellite Customer
Frank Preud’homme - Member of the Board - QinetiQ Space
- Access to Space: How do we get there? How do we come back?
Thibauld Jongen - CEO Sabca.

12:40 - 14:30

Lunch break & networking

- Corners for industrials (CV box)
- Corners for career (How to write a good CV and cover letter? How to look for an internship? How to apply? How to network efficiently?)

14:30 - 16:30

Splinter Sessions

Topic 1

Political and Legal Framework

| | |
|-------------|--|
| 14:30—14:40 | Introduction of the session by the Chairperson <i>Jean-François Mayence - 1st Legal Advisor – Belspo</i> |
| 14:40—15:00 | Asteroid mining <i>Space Affairs - Luxembourg</i> |
| 15:00—15:20 | Solving the problem of space-debris <i>Ward Munter - Doctoral Researcher – KUL</i> |
| 15:20—15:40 | Space based data as evidence in Court <i>Sarah Moens - 1st Lead Lawyer – DLA Piper</i> |
| 15:40—16:30 | Q&A and Panel discussion |

Topic 2 Life Science

- 14:30—14:40 **Introduction of the session by the chairperson**
Frank de Winne - Head of the European Astronauts Center - Köln
- 14:40—15:00 **What happens to the human body in microgravity?**
Florys Wuyts - Head of Center of Equilibrium & Aerospace - UAntwerpen
- 15:00—15:20 **Under the ray gun: health effects of cosmic radiation**
Baatout Sarah - Head of Radiobiology Unit - SCK-CEN
- 15:20—15:40 **Life in a closed-loop environment: ecological applications/ Melissa Project**
Natalie Leys - Coordinator of the Melissa project of SCK•CEN & Peter Clauwaert – UGhent
- 15:40—16:30 Q&A and Panel discussion

Topic 3 Space Technologies

- 14:30—14:4 **Introduction of the session by the chairperson**
Michael François – Instrument Manager, Earth Observation Satellite – ESA
- 14:40—15:00 **Humans and robots in space: a fruitful collaboration**
Jérémy Gancet – Division Manager - Space Applications Services
- 15:00—15:20 **Instrumentation**
Jean-Marc Defise – Project Manager - Amos
- 15:20 - 15:40 **Newspace Challenges**
Alain Van Esbeen - R&D Business Development Manager - Thales Alenia Space
- 15:20—15:40 **CubeSats**
Serge Habraken – 2D Professor - ULG
- 15:40 – 16:30 Q&A and Panel discussion

Topic 4

Earth Observation Applications & Copernicus

- 14:30—14:40 **Introduction of the session by the chairperson**
Virginia Puzzolo - Head of the Project Management Sector – REA - EU
- 14:40—15:00 **Remote Sensing: switching back and forth between the real world and the digital**
Steven Krekels - Unit Manager - VITO Remote Sensing
- 15:00—15:20 **Geo-information services**
André Jadot - CEO - Eurosense
- 15:20—15:40 **Meteorology and Climatology**
Paul Counet - Head of Strategy & International Relations - Eumetsat
- 15:40—16:00 **Atmospheric research**
Didier Fussen - Head of Department – Bira
- 16:00—16:30 Q&A and Panel discussion

Topic 5

Physical Science

- 14:30—14:55 **Introduction of the session by the chairperson**
Vladimir Pletser - Director of Space Training Operations at Blue Abyss
- 14:55—15:20 **Microgravity, an indispensable environment for physical science**
Frank Dubois & Andrei Vedernikov - Director of & Project Coordinator at Microgravity Research Centre – ULB
- 15:20—15:45 **What happened to the water on Mars?**
Veronique Dehant – Professor ROB & Extraordinary Professor UCL
- 15:45—16:10 **Space weather: Sunny days ahead**
David Berghmans- Head of Scientific Service 'Solar Physics & Space Weather, ROB
- 16:10—16:30 Q&A and Panel discussion

Topic 6

Prototyping and Testing

- 14:30—14:40 **Introduction of the session by the chairperson**
Gaetan Piret - Head of Test Centre Division – ESA
- 14:40—15:00 **How to represent planetary re-entry at laboratory scale?**
Olivier Chazot – Head of Department - Von Karman Institute
- 15:00—15:20 **Vibration and Thermal vacuum testing**
Christophe Grodent - Head of Space Environmental Testing Program - CSL
- 15:20—15:40 **Additive Manufacturing and its potential**
Julien Magnien, Engineer Additive Manufacturing - Sirris
- 15:40—16:00 **Application-Specific Radiation Hardened electronics design, test and flight Qualification**
Steven Redant - Director IC - link- IMEC
- 16:00 – 16:30 Q&A and Panel discussion

Topic 7

GALILEO & Satellite Communications

- 14:30—14:40 **Introduction of the session by the chairperson**
Peter Grogard – General Director - Von Karman Institute
- 14:40—15:00 **"Galileo: a European Programme shaping the future of GNSS**
Xavier Maufroid - GNSS Project Officer - European Commission
- 15:00—15:20 **Galileo Integrated Logistics Centre: A real opportunity to develop value added services**
Riccardo Grazi – Executive Director - Vitrociset Belgium
- 15:20—15:40 **Satellite navigation: the challenges of tomorrow's GNSS systems**
Olivier Desenfans – Project manager – M3Systems
- 15:40—16:00 **Photonics and Inter Satellite Links**
Koen Puimège - Managing Director - Antwerp Space

16:00—16:20 **Space and 5 G**
Geert Adams - VP of R&D programs & competences - Newtec

16:20 – 16:30 Q&A and Panel discussion

17:00 - 17:50 Plenary Sessions

17:00—17:20 **Summary of the day**
Sabri Mekaoui – Project Adviser Space Unit – REA – EU

17:20—17:30 **Presentation of HATCH**
Linda Kimeisa - Digital marketing and communication Manager – Wit Berry

17:30—17:40 **How to get involved as a student or young professional?**
Natacha Callens - Administrator ESA Education - Redu

17:40—17:50 **YouSpace - Closing remarks**
Dominique Tilmans Chair of YouSpace

17:50 – 20:00: Drinks & Networking

SWITCH *to* SPACE

www.switchtospace.org

08.10.
2018

Organised by YouSpace

The mission of the YouSpace is to help young and ambitious people interested in the Space sector to take their first steps towards achieving their goals, boosting their career and improving Europe's competitiveness.

More about YouSpace on www.yospace.be.

Contact the SWITCH to SPACE organisers

Email contact@yospace.be

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