AUSTRIAN SPACE COOPERATION DAYS

University of Applied Sciences Wiener Neustadt, Austria

7 - 8 June 2018

Federal Ministry
Transport, Innovation
and Technology

FFG
Forschung wirkt.

FACHHOCHSCHULE
WIENER NEUSTADT

FOTEC
Research Subsidiary of
FH Wiener Neustadt

AUSTROSPACE

SPONSORS & GRANTS

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ENPULSION
SPACECRAFT TECHNOLOGY

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AIRCRAFT

10 years
EOX
2008-2018

Technopol Wr. Neustadt
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· education
· industry
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GeoVille

A strong space sector

Space technologies have undoubtedly become key enabling technologies of the 21st century. Everyday life relies on the satellite-based infrastructure that makes telecommunication, navigation and earth observation possible. At the same time, space technologies help us better understand and address the key challenges faced by humankind, such as global warming and other environmental catastrophes.

Austrian scientists and companies have been highly active in developing innovative space technologies for many years. Thanks to their outstanding results space technology made in Austria is on board satellites and launchers.

The Ministry for Transport, Innovation and Technology has provided a meaningful contribution to this: We invest around 100 million Euros per year in space technologies and applications. Our priorities are: direct support through the national space programme, a sustainable space infrastructure through the EU Flagship programmes Copernicus and Galileo, as well as the participation in ESA programmes that stimulate our business and science communities.

The Austrian Space Cooperation Days 2018 provide the opportunity to showcase Austrian space competences and to exchange information – for the first time – with industries and research institutions of European neighbouring European countries.

I wish the organizers and all participants a successful and informative two days.

Norbert Hofer
Federal Minister for Transport, Innovation and Technology

Austria in the new space environment

BMVIT STRONGLY SUPPORTS AUSTRIAN SPACE COMPETENCIES. WELCOME TO A PLATFORM FOR EXCHANGE AND COOPERATION OF SMALL TO MEDIUM SPACE COUNTRIES.

In 2017 Austria celebrated already 30 years of ESA membership. During this period an interesting portfolio of space competencies has been built up. Satellite structures, mechanisms, thermal protection, on-board computers, specific test equipment for satellites, components for launchers, technologies for ultra-high frequency bands, GNSS receivers, specific earth observation capabilities and space weather and space surveillance technologies are but few of these competencies. Austria ranks among the leading nations in solar system science and has excellent capabilities in building science instruments and developing instrument software. A dedicated BMVIT space strategy, a committed FFG space agency and a specific focus on cooperations – in recent years increasingly from small to medium countries – have been keys to success.

But the space environment is also changing for the Austrian actors and their collaborators. Austrian industry is already part of new space activities and will certainly try to strategically increase its involvement. Further seeds have already been sown, e.g. in big data Earth observation services, advanced layer manufacturing, new composite products, micro propulsion, electronics, laser tracking and quantum communication technology. Again, to grow the seeds requires partnership and co-operation. The Austrian Space Cooperation Days are an excellent opportunity for discussing the future and teaming up. I wish speakers, participants and organizers very interesting and fruitful days of cooperative exchange.

Klaus Pseiner
Managing Director of the Austrian Research Promotion Agency (FFG), Vice Chair of ESA Council 2015–2017

Foto: Petra Spiola

Aiming high with FHWN

The University of Applied Sciences Wiener Neustadt stands above all for practice-oriented education, national and international networking and innovative research. We strive for the highest standards of quality in both teaching and research, strong practical orientation and steady growth. Within the national FH sector, we both shape and lead by example. One good example is our active contribution to enlarging and developing pioneering space research.

It is therefore a great pleasure to host Austria's very first Austrian Space Cooperation Days. During a two-day information fair with distinguished guests and exciting lectures, international key players in space research will present their vision of a future in space – an excellent opportunity to build and extend networks.

I wish you an insightful conference and engaging communication opportunities for the Austrian Space Cooperation Days at the FH Wiener Neustadt.

Josef Wiesler
CEO FH Wiener Neustadt

TABLE OF CONTENTS

Sponsors & Grants 2
Norbert Hofer: A strong space sector 3
Klaus Pseiner: Austria in the new space environment 4
Josef Wiesler: Aiming high with FHWN 5
Table of Contents / Helpful Information 6
Agenda at a glance 7
Map of Area 8
Side Events / Floor Plan FHWN Building 9
Schedule June 7th ..... 10 – 11
Schedule June 8th ..... 12 – 13
Keynote Speakers ..... 14 – 19
Exhibition Space Layout 20
Exhibitors ..... 21 – 27

HELPFUL INFORMATION

- **WiFi**
  fhwn gast >> click and accept

- **Venue**
  University of Applied Sciences
  Johannes Gutenberg Straße 3
  2700 Wiener Neustadt
  +43 2622 89 084-0

- **Parking**
  Is available in Student Parking area across from Nikolaus August Otto Strasse 24

- **Bus Transfer** (Nikolaus August Otto Straße)
  Transfer to VIE Airport on June 8th after conference at 4:30 p.m.

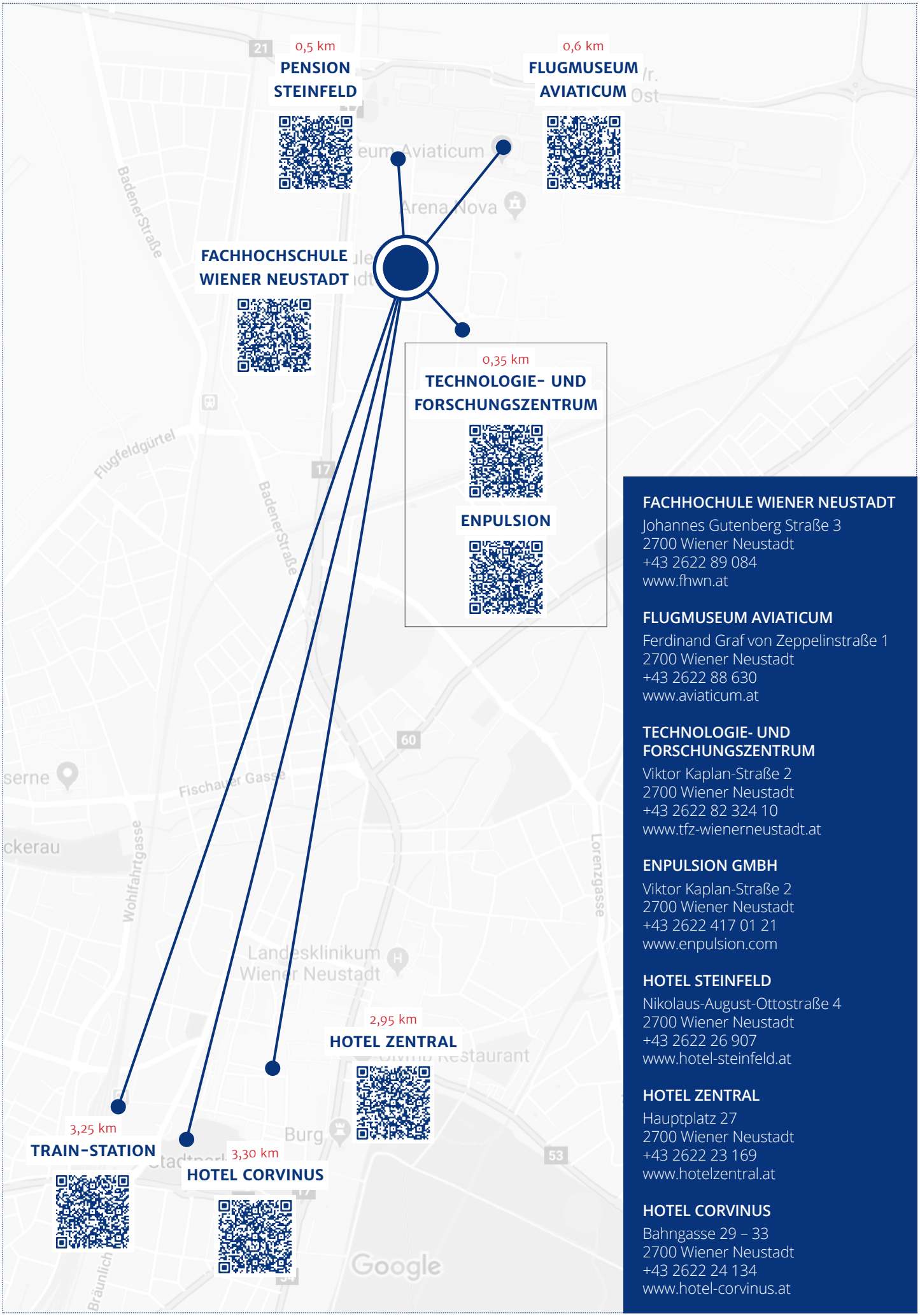
- **Contact**
  Katrin Fangl: +43 664 418 41 51
  Marcella Sigmund: +43 664 300 95 79

Pictures will be taken during the event, your attendance gives us permission to use and publish photos which will be taken during the event.

AGENDA AT A GLANCE

TIME	JUNE 7	
9:00	Registration & Breakfast	
10:00	Welcome address	
11:00	Keynotes Manufacturing	
12:00	Manufacturing Presentations	B2B Meetings
13:00		
14:00	Buffet Lunch / Exhibition	
15:00	Keynotes New Technologies	
16:00	New Technologies Presentations	B2B Meetings
17:00		
18:00	Side Event: Inauguration cocktail at the ENPULSION production facilities	
19:30	Networking-Dinner in the aviation museum “Aviaticum” Wiener Neustadt	
20:00		
21:00		
22:30		

TIME	JUNE 8	
9:00	Keynotes Big Data	
10:00	Big Data Presentations	B2B Meetings
11:00		
12:00	Buffet Lunch / Exhibition	
13:00	Keynotes Sciences	
14:00	Sciences Presentations	B2B Meetings
15:00		
16:00	Exhibition	
17:00	End	



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www.hotel-corvinus.at

SIDE EVENTS

18:00 – 19:30	**Inauguration cocktail** at the ENPULSION production facilities
19:30 – 22:30	**Networking-Dinner** in the aviation museum "Aviaticum" Wiener Neustadt *Special attraction: Flight show (weather allowing) and a trial flight with the flight simulator courtesy of Diamond Aircraft.*
	Bus transfer is provided departing from - the main entrance FHWN (Nikolaus August-Otto Straße) to TFZ at 17:50 - TFZ to Aviaticum at 19:00

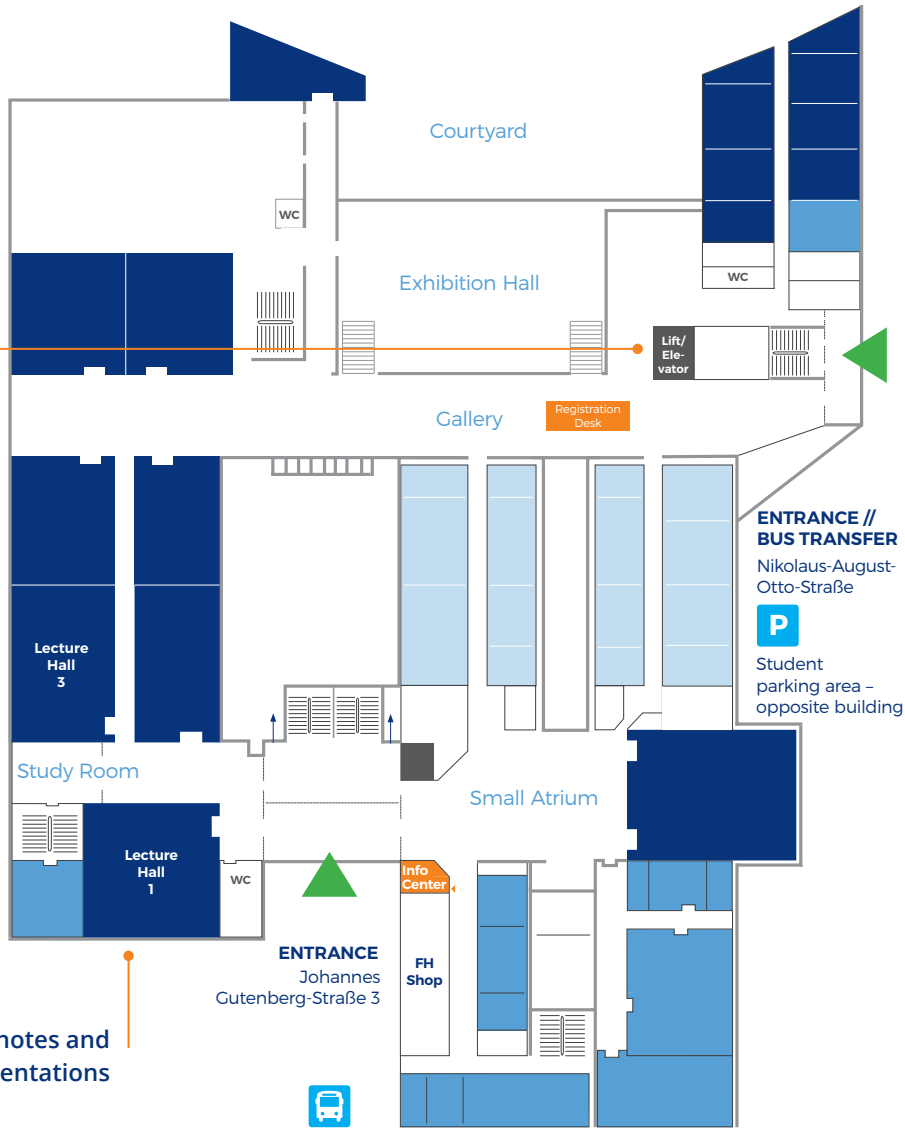
FLOOR PLAN FHWN BUILDING

June 8th
ESNC
Side Event FFG
K5 – 5th Floor

June 7th
B2B Meetings
Expand your connections in the space industry

Location
Study Room –
next to Lecture Hall 3

Schedule
Will be posted at Registration Desk and Study Room. Printouts will also be available.



SCHEDULE JUNE 7TH

LECTURE HALL 1

09:00 – 10:00	**REGISTRATION & BREAKFAST**
10:00 – 11:00	**WELCOME ADDRESS**
	Ingolf Schädler Deputy Director General for Innovation at the Austrian Ministry for Transport, Innovation and Technology
	Klaus Pseiner Managing Director of the Austrian Research Promotion Agency
	Petra Bohuslav State Minister of Lower Austria, representing Governor Johanna Mikl-Leitner
	Klaus Schneeberger Mayor of Wiener Neustadt and Chairman of the supervisory board of the University of Applied Sciences Wiener Neustadt
	Student Competition Awards presented by Carsten Scharlemann, Department Head Aerospace Engineering FHWN
11:00 – 12:00	**MANUFACTURING KEYNOTES >> Chaired by Alexander Reissner, Enpulsion**
	Sebastian Schlund, University Professor, TU Wien >> Manufacturing across Industries. Similarities and differences between various producing industries
	Chester Gillmore, Vice President of Manufacturing, Planet >> How to build and launch more than 200 operational satellites in less than 2 years
	Erhard Prechelmacher, General Manager Thermal and Mechanical, RUAG >> High Performance Thermal Insulation for New Space
12:00 – 14:00	**MANUFACTURING PRESENTATIONS / B2B MEETINGS >> Chaired by Alexander Reissner, Enpulsion**
	Alexander Reissner, CEO, ENPULSION, Austria >> Scale meets Space Technology. The pull and push between reliability, cost and scale
	Martin Schwentenwein, Head of Material Development, Lithoz, Austria >> New ALM for ceramics
	Peter Beck, Head Radiation Hardness Assurance and Space Weather, Seibersdorf Laboratories, Austria >> Accredited Space Related Activities at Seibersdorf Laboratories
	Markus Hatzenbichler, Team leader 'TEC Space – Advanced Manufacturing', FOTEC, Austria >> Metal Additive Manufacturing for Next Generation Platform (NeoSat)
	Andreas Merstallinger, AAC, Austria >> Testing in Manufacturing – Qualification of new Processes and Materials for use in Space
	Erich Neubauer, AT Space, Austria >> From prototypes to „mass" production for space applications
	Barbara Imhof, LIQUIFER, Austria >> Manufacturing of tomorrow: Using on site materials to build habitats

14:00 – 15:00	**BUFFET LUNCH / EXHIBITION**
15:00 – 16:00	**NEW TECHNOLOGIES KEYNOTES >> Chaired by Carsten Scharlemann**
	Magali Vaissiere, Director of Telecommunications and Integrated Applications, ESA >> ESA's perspective on New Technologies and their impact on the telecommunication industry
	Rafal Modrzewski, CEO and Founder, ICEYE >> The introduction and impact of New Technologies from the perspective of a European start-up
16:00 – 17:45	**NEW TECHNOLOGIES PRESENTATIONS / B2B MEETINGS >> Chaired by Carsten Scharlemann**
	Otto Koudelka, Head of Institute of Communication Networks and Satellite Communications, TU Graz, Austria >> The OPS-SAT and PRETTY Nanosatellite Missions
	Jakub Stelmachowski, Product Development Manager, Astronika, Poland >> InSight Hammering Mechanism as an example of custom scientific instrument
	Mihail Botjan, Materials Department, I.N.C.A.S., Romania >> Development and manufacturing of Advanced Thermal Protection Systems and evaluation by quick thermal shock testing and microstructure characterization
	Carsten Scharlemann, Head of Aerospace Engineering Department, University of Applied Sciences **Peter Beck,** Radiation Hardness Assurance and Space Weather, Seibersdorf Laboratories, Austria >> CLIMB: A nanosatellite mission to the Van Allen Belt
	Matthias Mäke-Kail, TTTech Computertechnik AG, Hi-Tech Business Development Manager, Austria >> Use of Ethernet in Space Applications and the Deep Space Gateway
	Jürgen Seybold, CEO, TeleConsult Austria GmbH , Austria >> GNSS technologies and services for the benefit of our society
	David Krejci, ENPULSION, Austria >> In-orbit demonstration of IFM Thruster
	Christoph Buchner, Team leader Energy Systems, FOTEC, Austria >> Propulsion and Energy Technology Development at FOTEC
	Martin Langer, Chair of Astronautics, TU Munich, Germany >> MOVE-II – Flying Novel Satellite Technology on a CubeSat Mission
	Michael Schmidt, Joanneum Research Graz, Austria >> Use of EHF frequency bands in satellite communications
	Hans Martin Steiner, CTO, ATOS, Austria >> univerSAS – Industry's most compact and multifunction satellite power testing system
18:00 – 19:00	**SIDE EVENT**
	Inauguration cocktail at the ENPULSION production facilities
19:30 – 22:30	**NETWORKING-DINNER**
	Dinner in the aviation museum "Aviaticum" Wiener Neustadt

SCHEDULE JUNE 8TH

LECTURE HALL 1

09:00 – 10:20	**BIG DATA KEYNOTES >> Chaired by Gerhard Triebnig, EOX**
	Josef Aschbacher, Director of Earth Oberservation Programmes, ESA >> ESA Earth Observation – Driving Innovation
	Florian Pappenberger, Director of Forecasts, ECMWF >> Fusing Big Data and HPC to Improve Global Weather Forecasting
	Yves Buhler, Research Director, EUMETSAT >> The journey towards Big Data and Digitalisation: The case of EUMETSAT
	Erwin Goor, Project Manager and Business Developer, VITO >> Proba-V Mission Exploitation Platform as a Node in a European Federation of Platforms: the Belgian Perspective
10:20 – 12:00	**BIG DATA PRESENTATIONS / B2B MEETINGS >> Chaired by Gerhard Triebnig, EOX**
	Grega Milcinski, Sinergise, Slovenia >> Sentinel Hub – Empowering EO Developers with Seamless Access to Big Data
	Christian Briese, EO Data Centre and University of Technology Vienna, Austria >> EODC – Collaboration in Earth Observation
	Marc Ferrer, Global Account Executive - Space, Atos, France >> The Mundi Copernicus Data and Information Access Services
	Thomas Nagler, ENVEO, Austria >> Global Monitoring of the Cryosphere Using Sentinel Satellite Data
	Stefano Natali, Managing Director Sistema, Austria >> eodataservice: a Data Cube Platform to Support Thematic Exploitation of Copernicus Data
	Stephan Meissl, CTO, EOX IT Services, Austria >> Services on Big EO Data – an Austrian Industry Perspective
	Christian Hoffmann, CEO, GeoVille, Austria >> Copernicus Land Monitoring in Action
	Lukas Brodsky, Mapradix Geosystems, Czech Republic >> Czech National Land Monitoring Services in the Era of Big Data from Space

12:00 – 13:00	**BUFFET LUNCH / EXHIBITION**
13:00 – 14:00	**SCIENCE KEYNOTES >> Chaired by Andreas Geisler, FFG**
13:00 – 13:40	**Mark McCaughrean,** Senior Scientific Advisor, Directorate of Science and Robotic Exploration, ESA >> Europeans: Once explorers, always explorers
13:40 – 14:00	**Willy Benz,** University of Bern, CHEOPS Consortium Principal Investigator >> The CHEOPS Mission: Goals and challenges
14:00 – 16:00	**SCIENCE PRESENTATIONS / B2B MEETINGS >> Chaired by Andreas Geisler, FFG**
	Werner Magnes, Deputy Director, Space Research Institute of the Austrian Academy of Sciences, Austria >> The Graz Space Research Institute: Current and Future Challenges
	Georg Kirchner, Space Research Institute of the Austrian Academy of Sciences, Austria >> Satellite Laser Ranging in Graz: Achievements and Advanced Applications
	Franz Kerschbaum, Department of Astrophysics Vienna, University of Vienna Austria >> New approaches in stellar evolution
	Werner Weiss, Department of Astrophysics Vienna, University of Vienna, Austria >> The science leading to BRITE and beyond
	Astrid Veronig, Institute of Physics, University of Graz, Austria >> Space Weather Activities of the University of Graz within ESA's SSA program and contributions to Solar Orbiter
	Rupert Ursin, Deputy Director, IQOQI, Austrian Academy of Sciences, Austria >> Quantum technologies for space, current status and future prospects
	Gerhard Paar, Joanneum Reearch, Digital Institute, Austria >> Three dimensional (3D) vision processing for planetary robotic missions
	Jan Souček, Deputy Head of the Department, Institute of Atmospheric Physics, Czech Academy of Sciences, Czech Republic >> Plasma wave instruments for future space missions
14:00 – 16:00	**SIDE EVENT**
	European Satellite Navigation Competition 2018: Austrian Kick-Off in Conference Room K5, 5th floor: Number of participants limited to max 20 persons. Separate registration required at FFG contact point: First come, first served.
16:00 – 17:00	**EXHIBITION**

KEYNOTE SPEAKERS

Josef Aschbacher

Big Data Keynotes, June 8th

>> ESA Earth Observation – Driving Innovation

Josef Aschbacher is the ESA Director of Earth Observation Programmes and Head of ESRIN, ESA's centre for Earth Observation, located in Frascati (near Rome), Italy.

Born in Austria, he studied at the University of Innsbruck, graduating with a Master and a Doctoral Degree in Natural Sciences.

His professional career in ESA began in 1990 as a Young Graduate at ESA ESRIN. From 1991-93 he was seconded as ESA Representative to Southeast Asia to the Asian Institute of Technology in Bangkok, Thailand. From 1994 - 2001 he worked at the European Commission Joint Research Centre in Ispra, Italy, where he was the Scientific Assistant to the Director of the Space Applications Institute. He returned to ESA HQ (Paris) in 2001 as Programme Coordinator where he was primarily responsible for advancing Copernicus activities within ESA.

In 2006 he was nominated Head of the Copernicus Space Office, where he led all activities for Copernicus within the Agency and with external partners, in particular the European Commission. In 2014, he was promoted to Head of Programme Planning and Coordination at ESRIN, where he was responsible for planning ESA's Earth Observation programmes and for formulating and implementing programmatic and strategic decisions across the Directorate. He took up duty as Director of Earth Observation Programmes on 1 July 2016.

Science Keynotes, June 8th

>> The CHEOPS Mission: Goals and challenges

Willy Benz

Willy Benz studied physics in Switzerland at the Universities of Neuchâtel and Geneva where he obtained his PhD under the supervision of Prof. Michel Mayor. He then went on to post-doctoral work at Los Alamos National Laboratory (USA) and at Harvard University (USA). In 1987 he was appointed assistant professor by Harvard University and in 1991 full professor at the University of Arizona in Tucson (USA).

In 1997, he returned to Switzerland as a professor at the Physics Institute at the University of Bern of which he was the director between 2002 and 2015. Currently, he is the Director of the Swiss National Center "PlanetS" dedicated to the study of the formation, evolution, and characterization of planets within and outside the solar system. He is also the Principal Investigator of CHEOPS, the first small mission in ESA's scientific programme selected in 2012 and the first mission of this programme co-lead by Switzerland. Since 2007 he is an external scientific member of the Max Planck Society. He has served on several national and international advising committees. Among others, he was a member of the "Schweizer Wissenschaftsrat" (2004-2015), and chaired ESA's Space Science Advisory Committee (2010-2013) and ESO's Science and Technical Committee (2009-2011). After having served for three years as the Swiss scientific delegate, he was elected president of the ESO Council starting as of January 2018.

He was born on July 6 1955 in Neuchatel (Switzerland). He is married and the father of three adult children.

b
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HABITABILITY

Big Data Keynotes, June 8th

>> The journey towards Big Data and Digitalisation: The case of EUMETSAT

Yves Buhler

Yves Buhler has held the position of Director of Technical and Scientific Support since 1 January 2013. In this role, he oversees the delivery of scientific, engineering and management support to EUMETSAT operations and development programmes.

Mr Buhler joined EUMETSAT in 1992 as an Image Processing Engineer/Facility Manager and has worked on the Meteosat Transition Programme, Meteosat Second Generation (MSG) and the EUMETSAT Polar System (EPS). In June 2007, he was appointed Head of the Maintenance and Engineering Division responsible for ensuring the proper maintenance of EUMETSAT's operational systems so they are able to continue to provide service in future. Before this, Mr Buhler held overall technical responsibility for EPS as System Manager and System Authority in the Low Earth Orbit Division from 1999 to 2007. Prior to joining EUMETSAT, Mr Buhler worked on remote sensing projects for space- and airborne synthetic aperture radar systems, leading the group related to systems definition within the Signal Processing Division at DASA-Dornier in Friedrichshafen, Germany.

Mr Buhler graduated cum laude with an electrical engineering degree from INSA, the National Institute for Applied Sciences in Lyon, in 1984. He also holds a Master's degree in telecommunications (signal processing) from INRS-Telecommunications in Montreal, awarded in 1986.

Mr Buhler is married and has two daughters.

EUMETSAT

Chester Gillmore

Manufacturing Keynotes, June 7th

>> How to build and launch more than 200 operational satellites in less than 2 years

Chester Gillmore is Vice President of Manufacturing at Planet, a San Francisco-based aerospace and data company that designs, builds and operates the world's largest fleet of Earth imaging satellites with the mission of using space to help life on Earth. Chester was part of the early team at Planet and prior to that he helped Las Cumbres Observatory Global Telescope Network (LCOGT) build and operate a longitudinally deployed global network of fully robotic autonomous 1M and 0.4M telescopes for research.

Erwin Goor

Big Data Keynotes, June 8th

>> Proba-V Mission Exploitation Platform as a Node in a European Federation of Platforms: the Belgian Perspective

Erwin Goor obtained a Master's degree of Applied Science and Engineering – Computer Science – Applied Mathematics at the KU Leuven in Belgium. Following a career as an R&D team leader at Siemens Telecom and Nokia Siemens Networks, he joined VITO Remote Sensing as a researcher and project manager back in 2007.

Today, Erwin works as a project manager and business developer with a focus on Data Distribution and Exploitation. His current R&D topics include data exploitation platforms, on-demand processing of large amounts of data on scalable cloud-based platforms, and information dashboards. He's also involved in several European Commission and Europan Space Agency sponsored projects, such as the Proba-V Mission Exploitation Platform (ESA) and NextGEOSS (EC).

Science Keynotes, June 8th

>> Europeans: Once explorers, always explorers

Mark McCaughrean

Prof Mark McCaughrean is the Senior Advisor for Science & Exploration at the European Space Agency. He is also responsible for communicating results from ESA's astronomy, heliophysics, planetary, exploration, and fundamental physics missions to the scientific community and wider general public.

Following a PhD from the University of Edinburgh, he worked at the NASA Goddard Space Flight Centre, followed by astronomical institutes in Tucson, Heidelberg, Bonn, and Potsdam, and taught as a professor of astrophysics at the University of Exeter before joining ESA in 2009.

His personal scientific research involves observational studies of the formation of stars and their planetary systems, and he is also an Interdisciplinary Scientist for the NASA/ESA/CSA James Webb Space Telescope.

New Technologies Keynotes, June 7th

>> The introduction and impact of New Technologies from the perspective of a European start-up

Rafal Modrzewski

Rafal Modrzewski is the Chief Executive Officer and co-founder of ICEYE. ICEYE aims to launch and operate a constellation of micro-SAR satellites providing access to timely and reliable Earth observation data. ICEYE is the first company that has successfully miniaturized a SAR satellite, creating a unit that is 100x more cost-efficient than the closest counterpart. With the 18 satellite constellation, ICEYE will offer its partners a set of unprecedented surveillance capabilities, accessing an area or interest faster, more frequently and at lower cost.

Since co-founding the project in 2012, which became the company in 2014, with Pekka Laurila, Modrzewski is responsible for overseeing the organization's strategic direction and implementing ICEYE's overall vision. Modrzewski brings with him deep domain expertise in engineering through his years as a researcher.

Prior to co-founding ICEYE, Modrzewski researched innovative products at VTT (Technical Research Centre of Finland) in the RFID and wireless sensing group. He attended Warsaw University of Technology in Poland, where he studied Electrical Engineering and co-founded the Multimedia Technologies Science Group. Modrzewski continued his studies in Radio Science and Engineering at Aalto University where he led the on- board data handling team working on Aalto-1, Finland's flagship satellite project.

Florian Pappenberger

Big Data Keynotes, June 8th

>> Fusing Big Data and HPC to Improve Global Weather Forecasting

Florian Pappenberger is Director of Forecasts at the European Centre For Medium-Range Weather Forecasts.

The Forecast Department at ECMWF has a strong user focus and undertakes production of forecasts, forecast evaluation and diagnostics, development of forecast products and applications, software development, catalogue and data services and outreach and training.

Florian has a scientific background in the forecasting of weather driven natural hazards including floods, droughts, windstorms, forest fires and impacts on human health. He has over 10 years of expertise in operational probabilistic forecasting, extreme value statistics and numerical model system development at ECMWF. He was responsible for the development and implementation of the operational centre of the Copernicus Emergency Service – Early Warning Systems (floods).

Florian is the author of over 150 publications and has won several scientific awards. He is a fellow of the Royal Geographical Society and the Royal Meteorological Society and a member of several other professional bodies including HEPEX, British Hydrological Society, EGU, AGU, EMS, AMS. He is on the editorial board of several international journals and regularly advises on international committees including WMO and world bank.

Erhard Prechelmacher

Manufacturing Keynotes, June 7th

>> High Performance Thermal Insulation for New Space

Erhard Prechelmacher is the General Manager of the Product Unit Thermal and Mechanical (TM) at RUAG Space in Austria. Born in Vienna he made a technical education for aircraft engineering and later also a management education.

He started his professional carrier as a development engineer for e.g. Philips Video and AKG in Austria. From December 1989 he is working within Austrian space business for RUAG Space (former ORS and Austrian Aerospace). In 1991 a new product line for Thermal Insulation was established and Erhard Prechelmacher took over the management.

Today he is responsible as a General Manager for the Product Unit Thermal & Mechanical for all of the Austrian business within RUAG Space related with Thermal Systems for space and cryogenic systems and for space mechanisms and mechanical ground support equipment.

Manufacturing Keynotes, June 7th

>> Manufacturing across Industries. Similarities and differences between various producing industries

Sebastian Schlund

Univ.-Prof. Dr. Ing. Sebastian Schlund (born 1979) holds the BMVIT endowed professorship of Human Centered Cyber Physical Production and Assembly Systems at Technische Universität Wien.

His research and lecture focus is on work design, ergonomics, digitalization and automation of manufacturing work. He currently builds up the research area Human Machine Interaction in Manufacturing. His central research interest is on the conception, design and implementation of digitally networked assembly systems, assistance systems in manufacturing, demographic-oriented work organization as well as work organization, task division and competence development for the future manufacturing work.

Sebastian Schlund studied transport management at the TU Berlin and the INSA Lyon and received a doctor's degree at the Bergische Universität Wuppertal in the field of quality management. Until 2017 he worked as senior researcher at the University of Stuttgart and headed the Competence Center "Production Management" at the Fraunhofer Institute for Industrial Engineering (IAO). In this role, he was responsible for numerous research and industrial projects in the fields of lean management, industrial design and Industry 4.0 in various industries and company sizes. He is member of the consulting committee to the Deutscher Montagekongress (German Assembly Congress) as well as author and co-author of more than 50 scientific publications, including the Fraunhofer study "Produktionsarbeit der Zukunft – Industrie 4.0".

New Technologies Keynotes, June 7th

>> ESA's perspective on New Technologies and their impact on the telecommunication industry

Magali Vaissiere

Magali Vaissiere is the Director of Telecommunications and Integrated Applications at ESA since 2008, where she is responsible for the ARTES programme of ESA; an R&D programme in satellite telecommunications and applications.

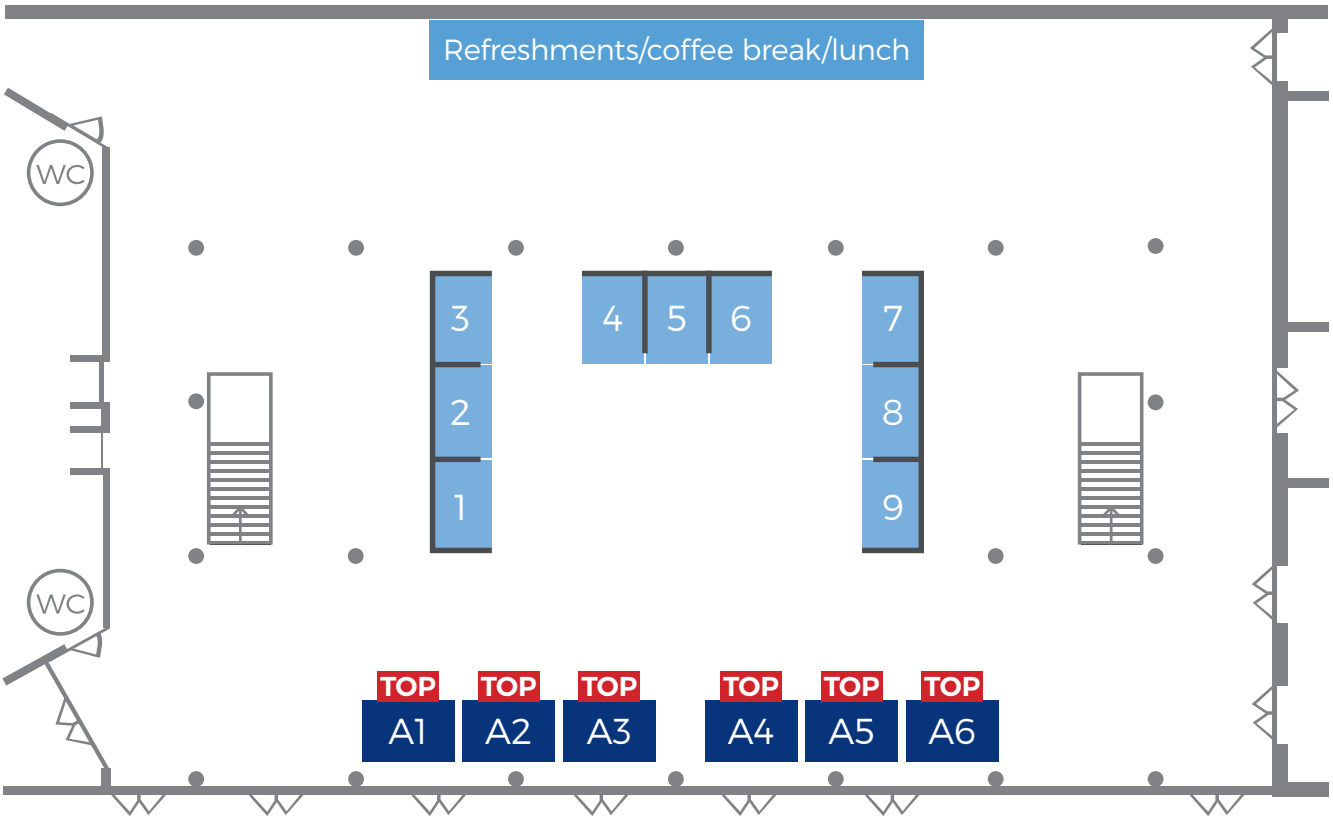
Since 2013 Magali is also Head of ECSAT, ESA's UK Centre, located in Harwell, Oxfordshire.

Before joining ESA, Magali worked for industry, notably with EADS-Astrium Satellite for 15 years, and prior to that for nine years with Thomson-CSF Radars.

After studying as an engineer at the Ecole Nationale Supérieure des Telecommunications de Paris (Telecom Paris Tech) Magali obtained a Master of Science from Stanford University. She also possesses an Executive MBA from the Centre de Perfectionnement aux Affaires.

Since 2014, Magali is a member of the French "Académie des Technologies".

EXHIBITION SPACE LAYOUT



Joanneum Research Forschungsgesellschaft mbH 1
Aerospace & Advanced Composites GmbH 2
Dewesoft GmbH 3
GeoVille Information Systems and Data Processing GmbH 4
Student Competition 5
SPACE Dosimetry RG 6
Institut für Weltraumforschung 7
DUOL Engineering Ltd. 8
Graz University of Technology 9

RUAG Space GmbH A1
Enpulsion GmbH A2
Seibersdorf Labor GmbH A3
EOX IT Services GmbH A4
TTTech Computertechnik AG A5
FHWN / FOTEC A6

AEROSPACE & ADVANCED COMPOSITES GMBH

STAND 2

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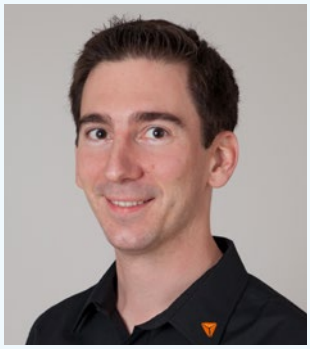
DEWESOFT GMBH

STAND 3



Branch
Measurement instruments
Field
Measurement instruments, Aerospace, Telemetry, Chapter10 Recorder Reproducer
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DUOL ENGINEERING LTD.

STAND 8

Branch
Engineering
Field
Mobile earth stations for space monitoring
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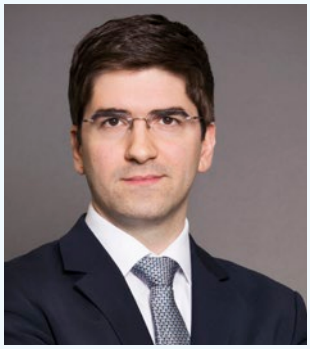

STAND A2

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Branch
Aerospace

Field
Spacecraft Propulsion Systems

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EOX IT SERVICES GMBH

STAND A4

Branch
Earth Observation

Field
Spatial Observation Information Technology

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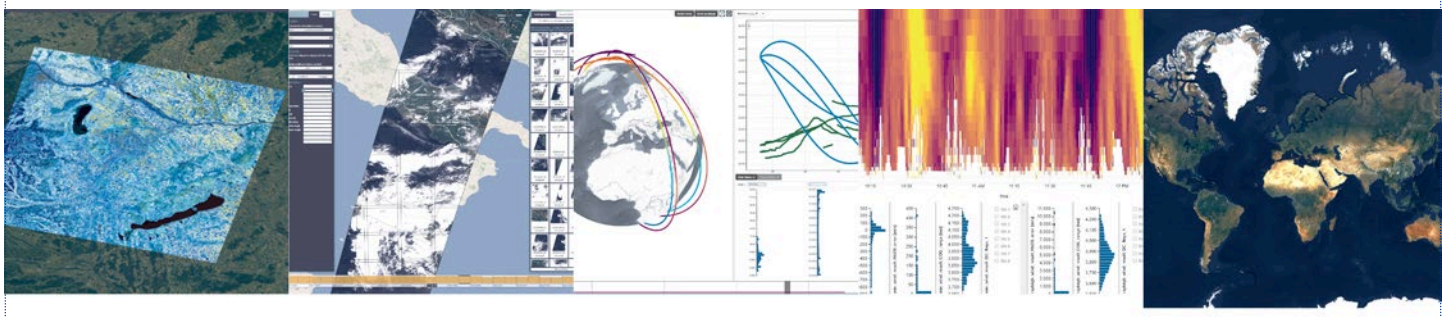

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STAND 4

GEOVILLE INFORMATION SYSTEMS AND DATA PROCESSING GMBH

Branch
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Field
Geo Information

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STAND A6

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Field
Education

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Field
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Field
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STAND A1

RUAG SPACE GMBH

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Branch
Space

Field
Space

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STAND A3

SEIBERSDORF LABOR GMBH

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Branch
Scientific Services and Test House

Field
Radiation Hardness Assurance and Space Weather

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STAND 6

SPACE DOSIMETRY RG

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Dosimetry Systems

Field
Payload development, radiation measurement, space hardware testing

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STUDENT COMPETITION

STAND 5

Branch
Education
Field
Education
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TTTECH COMPUTERTECHNIK AG

STAND A5

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Aerospace
Field
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GRAZ UNIVERSITY OF TECHNOLOGY

STAND 9

Branch
Nanosatellites
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Satellite Communications, Nanosatellite Technology & Operations
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