



EUROPEAN  
FORUM  
ALPBACH

# TEC

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## Alpbach Technology Symposium Alpbacher Technologiegespräche

24.-26.08.2017



**European Forum Alpbach 2017**Conflict and Cooperation *Konflikt und Kooperation*

16.08.–01.09.2017

Cultural Programme <i>Kulturprogramm</i>	16.08.–01.09.2017
Seminar Week <i>Seminarwoche</i>	16.–22.08.2017
Tyrol Days <i>Tiroltage</i>	19.–20.08.2017
Health Symposium <i>Gesundheitsgespräche</i>	20.–22.08.2017
Higher Education Symposium <i>Hochschulgespräche</i>	23.08.2017
<b>Technology Symposium <i>Technologiegespräche</i></b>	24.–26.08.2017
Legal Symposium <i>Rechtsgespräche</i>	27.–29.08.2017
Political Symposium <i>Politische Gespräche</i>	27.–29.08.2017
Economic Symposium <i>Wirtschaftsgespräche</i>	29.–31.08.2017
Financial Market Symposium <i>Finanzmarktgespräche</i>	31.08.–01.09.2017
Built Environment Symposium <i>Baukulturgespräche</i>	31.08.–01.09.2017

**Organisers**

AIT Austrian Institute of Technology GmbH  
 Austrian Broadcasting Corporation –  
 Programme Radio 1

**Cooperation**

Austrian Federal Ministry for Transport, Innovation and Technology, Austrian Federal Ministry of Science, Research and Economy, Austrian Federal Ministry of Education

**Industrial Partner**

Federation of Austrian Industries

**Scientific Partner**

Helmholtz-Gemeinschaft Deutscher Forschungszentren

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**As well as**

Austrian Patent Office, “Junge Uni” Innsbruck, Steirische Wirtschaftsförderungsgesellschaft mbH

This year's Technology Symposium will be searching for new pathways and tools for a society in transition, under the headline theme of "Conflict and Cooperation". The battle for resources, new disruptive technologies, climate change and many other factors (such as approaching the limits of growth) require new solutions for economic and social issues. The digital world is especially suitable for creating innovative approaches. The virtual world seems to have almost no borders and sharing and cooperation are highly popular. Will new digital technologies help us to achieve more equality by cooperation? Social networks, big data and the internet of things offer huge opportunities which have not been exhausted so far. The competition and disputing of ideas are essential for innovation and social development. However, only broad-based cooperation uniting researchers, enterprises and citizens will enable us to finally tackle the big social challenges. For example, how can smart cities deploy new sustainable mobility concepts? Can decarbonization help us regain balance with ourselves and the world? In any case, cooperation will be one of the decisive factors for the development of mankind and the whole evolution of life.

Die diesjährigen Technologiegespräche mit dem Rahmenthema „Konflikt & Kooperation“ sind auf der Suche nach neuen Wegen und Werkzeugen für eine Gesellschaft im Umbruch. Der Kampf um Ressourcen, neue disruptive Technologien, der Klimawandel und viele weitere Faktoren wie die näherrückenden Grenzen des Wachstums verlangen nach neuen gesellschafts- und wirtschaftspolitischen Lösungen. Innovative Ansätze dazu bietet besonders die digitale Welt. In der virtuellen Welt scheint es kaum mehr Grenzen zu geben und Teilen und Kooperation stehen hoch im Kurs. Verheßen uns die neuen digitalen Technologien generell zu mehr Gerechtigkeit durch Zusammenarbeit? Soziale Netzwerke, Big Data und das Internet der Dinge bieten hierzu längst noch nicht ausgeschöpfte Möglichkeiten. Der Wettbewerb der Ideen und der Disput darüber sind für Innovationen und soziale Entwicklungen essentiell. Aber erst weitreichende Kooperationen, die ForscherInnen, Unternehmen und auch BürgerInnen zusammenbringen, vermögen es schließlich, die großen gesellschaftlichen Herausforderungen anzugehen. Wie weit helfen etwa smarte Städte mit neuen, nachhaltigen Verkehrskonzepten oder generell die Dekarbonisierung, um unsere Gesellschaft wieder ins Gleichgewicht mit sich und unserem Globus zu bringen? Kooperation gilt jedenfalls als einer der wichtigsten Faktoren für die Entwicklung der Menschheit und der gesamten Evolution des Lebens.

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## Time Table / Zeitplan

### Thursday, 24.08.2017

11:00-11:45	#ART TEC: Interfaces between art, technology, and science	Culture
13:00-13:10	Opening	Plenary
13:10-14:15	RTI Talk	Plenary
14:15-15:45	The robots are coming. Be (not) afraid!	Plenary
16:15-17:45	New materials and autonomous systems	Plenary
18:00-19:00	Markus Bacher. Exhibition tour with the artist	Culture
20:15-21:15	Tickets to Berlin: Falling Walls Lab Austria and Summer School on Entrepreneurship	Plenary
21:15-23:00	Career Lounge	Plenary
21:30-23:30	Evening Reception	Social

### Friday, 25.08.2017

8:30-9:00	TU Austria Innovation Marathon: ideas made to order – 24 hours nonstop	Plenary
9:00-18:00	Junior Alpbach – Science and Technology for Young People	Breakout
9:00-15:00	Ö1 Children's University Alpbach – Science and Technology for Kids	Breakout
9:15-10:00	Optogenetics	Plenary
10:30-12:15	Designing the next digital revolution. At the crossroads of science, technology and art	Plenary
12:30-13:00	Lunch Snacks for the Participants of the Breakout Sessions	Social
13:00-18:00	01 Digital futures: design as key to future digital worlds	Breakout
13:00-18:00	02 The promotion of research and innovation in Austria	Breakout
13:00-18:00	03 Data-driven innovation – from resources to strategies	Breakout
13:00-18:00	04 Open science, dark knowledge: science in an age of ignorance	Breakout
13:00-18:00	05 Second machine age: learning machines – autonomous machines	Breakout
13:00-18:00	06 From the lab to the plate – the vegan black pudding (Blunzengröstl)	Breakout
13:00-18:00	07 Does industry 4.0 need education and training 4.0?	Breakout
13:00-18:00	08 Smart production and services	Breakout
13:00-18:00	09 Conflict and cooperation in the era of digitisation	Breakout
13:00-18:00	10 The Paris lifestyle – technologies and opportunities for climate protection	Breakout
13:00-18:00	11 Conflict, cooperation – or both: how does innovation occur?	Breakout
13:00-18:00	12 The competition for resources as a driver of green technologies	Breakout
13:00-18:00	13 A new Biedermeier in Europe?	Breakout
18:30-19:30	China Manufacturing 2025: putting industrial policy ahead of market forces?	Plenary
20:30-22:00	Catch-Pop String-Strong	Culture

### Saturday, 26.08.2017

9:00-10:30	Managing complex systems	Plenary
10:50-12:15	The second quantum revolution?	Plenary
12:15-13:00	Gravitational waves	Plenary
13:00-14:00	Snack Reception	Social
17:30-18:30	Up the garden path. A guided walk	Culture

# PLENARY SESSIONS

Presentation by Andreas Jäger

**Thursday, 24.08.2017**

**Plenary**

13:00–13:10

ELISABETH-HERZ-KREMENAK-SAAL

OPENING

## Opening *Eröffnung*

SIMULTANEOUS TRANSLATION

Franz Fischler

President, European Forum Alpbach, Vienna

13:10–14:15

ELISABETH-HERZ-KREMENAK-SAAL

PANEL

## RTI Talk *FTI-Talk*

SIMULTANEOUS TRANSLATION

In the RTI talk, leading representatives from the ministries, the Federation of Austrian Industries and the Austrian Council for Research and Technology Development will discuss current priorities, challenges and demands for a future RTI agenda in the digital age, addressing conflict as well as cooperation.

*Im FTI-Talk erfahren Sie von den SpitzenvertreterInnen der Ministerien, der Industriellenvereinigung und des Rates für Forschung und Technologieentwicklung mehr über aktuelle Schwerpunkte, Herausforderungen und Forderungen für eine FTI-Zukunftsgenda im digitalen Zeitalter, die Konflikte ebenso adressiert wie Kooperationen.*

<b>Hannes Androsch</b>	Industrialist; Chairman of the Board, AIT Austrian Institute of Technology GmbH; Chairman, Austrian Council for Research and Technology Development, Vienna
<b>Sonja Hammerschmid</b>	Austrian Federal Minister for Education, Vienna
<b>Georg Kapsch</b>	President, Federation of Austrian Industries, Vienna
<b>Jörg Leichtfried</b>	Austrian Federal Minister for Transport, Innovation and Technology, Vienna
<b>Harald Mahrer</b>	Austrian Federal Minister of Science, Research and Economy, Vienna
<b>Rosa Lyon</b>	Presenter and Reporter, ORF – Austrian Broadcasting Corporation, Vienna

Chair

# The robots are coming. Be (not) afraid!

## *Die Roboter kommen. Fürchtet euch (nicht)!*

IN COOPERATION WITH AUSTRIAN FEDERAL MINISTRY FOR TRANSPORT, INNOVATION AND TECHNOLOGY

### SIMULTANEOUS TRANSLATION

Robots are increasingly becoming a staple of everyday life. It is not only about conveyor belts in factories. We are talking about deserted supermarkets, nursing robots in retirement homes or self-driving buses. Who decides where robots will replace us? Will our economic location suffer if we resist? Is, perhaps, Austria poised to profit from this progress? The time has come to make the right decisions.

*Roboter sind immer öfter in unserem Alltag anzutreffen. Es geht nicht mehr um das Fließband in der Fabrik. Die Rede ist von menschenleeren Supermärkten, Pflegerobotern im Altenheim oder selbstfahrenden Bussen. Wer bestimmt, wo Roboter uns Menschen ablösen? Leidet der Wirtschaftsstandort, wenn wir uns wehren? Kann vielleicht gerade Österreich von diesem Fortschritt profitieren? Zeit, die richtigen Entscheidungen zu treffen.*

<b>Sabine Theresia Köszegi</b>	Professor for Labour Science and Organisation; Academic Director, Professional MBA Entrepreneurship & Innovation, Vienna University of Technology, Vienna
<b>Jörg Leichtfried</b>	Austrian Federal Minister for Transport, Innovation and Technology, Vienna
<b>Martina Mara</b>	Head, RoboPsychology Research Division, Ars Electronica Futurelab, Linz
<b>Oliver Nachtwey</b>	Associate Professor of Social Structure Analysis, Department of Social Sciences, University of Basel
Chair <b>Rosa Lyon</b>	Presenter and Reporter, ORF – Austrian Broadcasting Corporation, Vienna

Thursday, 24.08.2017

Plenary

16:15–17:45

ELISABETH-HERZ-KREMENAK-SAAL

PANEL

# New materials and autonomous systems

## *Neue Materialien und autonome Systeme*

PLENARY SESSION IN COOPERATION WITH HELMHOLTZ-GEMEINSCHAFT DEUTSCHER FORSCHUNGSZENTREN

## SIMULTANEOUS TRANSLATION

Autonomous vehicles, learning machines and robots – the smart connection of new materials with digital control enables us to develop a new generation of autonomous systems. These systems will change our everyday lives. What opportunities can we expect? What risks should we anticipate? What developments does the division of labour between man and machine entail?

*Autonome Fahrzeuge, lernende Maschinen und Roboter – die kluge Verbindung neuartiger Materialien mit digitaler Steuerung ermöglicht eine neue Generation autonomer Systeme. Diese werden unseren Alltag verändern. Welche Chancen bieten sich uns? Welche Risiken müssen wir im Auge behalten? Wie wird sich die Rollenverteilung zwischen Mensch und Maschine entwickeln?*

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<b>Alin Olimpiu Albu-Schäffer</b>	Professor and Chair, Sensor Based Robotic Systems and Intelligent Assistance Systems, Department of Informatics, Technical University of Munich; Director, Institute of Robotics and Mechatronics, DLR – German Aerospace Center, Wessling
<b>Pascale Ehrenfreund</b>	Chair of the Executive Board, DLR – German Aerospace Center, Cologne
<b>Sami Haddadin</b>	Director, Institute of Automatic Control, Gottfried Wilhelm Leibniz Universität Hannover
<b>Otmar D. Wiestler</b>	President, Helmholtz Association of German Research Centres, Berlin

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Chair

Thursday, 24.08.2017

Plenary

20:15–21:15

ELISABETH-HERZ-KREMENAK-SAAL

PANEL

## Tickets to Berlin: Falling Walls Lab Austria and Summer School on Entrepreneurship

### *Tickets nach Berlin: Falling Walls Lab Austria und Summer School on Entrepreneurship*

ENGLISH LANGUAGE

In this challenging, inspiring and interdisciplinary format, young scientists and entrepreneurs will present their innovative ideas, research and business projects. The audience will decide on the winners of the two tickets for the Falling Walls Conference in Berlin in November.

*In diesem herausfordernden, inspirierenden und interdisziplinären Format präsentieren JungwissenschaftlerInnen und Entrepreneurure ihre innovativen Ideen, Forschungs- und Businessprojekte. Das Publikum entscheidet, wer die GewinnerInnen der zwei Tickets für die Falling Walls Konferenz in Berlin im November sind.*

<b>Benjamin Aigner</b>	Lecturer, UAS Technikum Wien; Finalist, 2017 Falling Walls Lab Austria, Vienna
<b>Nouf Al-Jabri</b>	Ph.D. Student, King Abdullah University of Science and Technology, Thuwal
<b>Johannes Binting</b>	Research Fellow, AIT Austrian Institute of Technology GmbH, Vienna University of Technology; Finalist, 2017 Falling Walls Lab Austria, Vienna
<b>Dang Huyen Chau</b>	Ph.D. Student, Dresden University of Technology, Dresden; Winner, 2016 Falling Walls Lab Berlin
<b>Lukas Kinner</b>	Ph.D. Student, Humboldt-University Berlin; Junior Scientist, AIT Institute of Technology GmbH; Finalist, Falling Walls Lab Austria, Vienna
<b>Maxim P. Nikitin</b>	Head of Nanobiotechnology Laboratory, Moscow Institute of Physics and Technology; Finalist, 2016 Falling Walls Lab Berlin; Moscow
<b>Agnes Reiner</b>	Ph.D. Student, University of Natural Resources and Life Sciences Vienna; Medical University of Vienna; AIT Austrian Institute of Technology, Vienna; Nanyang Technological University and A-Star, Singapore; Winner, 2017 Falling Walls Lab Austria, Vienna
Chair <b>Hermann Hauser</b>	Co-Founder, Amadeus Capital Partners Ltd.; Member, ERA Council Forum Austria, London
Chair <b>Wolfgang Knoll</b>	Scientific Managing Director, AIT Austrian Institute of Technology GmbH, Vienna
Chair <b>Jürgen Mlynek</b>	Chairman of the Board of Trustees, Falling Walls Foundation gGmbH, Berlin

21:15–23:00

FLORA-, HEISS- UND ROGGER-SAAL

INTERACTIVE

## Career Lounge / *Karrierelounge*

IN COOPERATION WITH CLUB ALPBACH SÜDTIROL ALTO ADIGE, SUPPORTED BY SIEMENS AG ÖSTERREICH

Networking for aspiring young high-potentials with representatives from top-level research and the economy

*Networking von Young High Potentials mit SpitzenvertreterInnen aus Forschung und Wirtschaft*



Friday, 25.08.2017

Plenary

8:30–9:00

ELISABETH-HERZ-KREMEK-SAAL

WRAP UP

## TU Austria Innovation Marathon: ideas made to order – 24 hours nonstop

### *TU Austria Innovations-Marathon: Ideen auf Bestellung – 24 Stunden nonstop*

SIMULTANEOUS TRANSLATION

24 hours of nonstop product development: 8 tasks, 8 student teams and 24 hours of time. This is the recipe created by the "TU Austria Innovation Marathon" to find solutions for real assignments from enterprises. In this plenary session the teams will present the solutions they have come up with within 24 hours in Alpbach.

*24 Stunden Produktentwicklung nonstop: 8 Aufgaben, 8 Studierenden-Teams und 24 Stunden Zeit. Aus diesen Zutaten entstehen beim „TU Austria Innovations-Marathon“ Lösungskonzepte für reale Aufgabenstellungen von Unternehmen. In diesem Plenum präsentieren die Teams, was sie in 24 Stunden in Alpbach erarbeitet haben.*

Introduction	<b>Christoph Neumayer</b>	Director General, Federation of Austrian Industries, Vienna
Chair	<b>Mario Fallast</b>	Project Manager, TU Austria Innovation Marathon, Graz University of Technology

9:15–10:00

ELISABETH-HERZ-KREMEK-SAAL

KEYNOTE &amp; PANEL

## Optogenetics

### *Optogenetik*

SIMULTANEOUS TRANSLATION

Optogenetics uses light-controlled "switches" within genetically modified cells, e.g. to control the electrical impulses of nerve cells. In this way, certain neural functions can be controlled remotely and highly complex neural circuits and processes in the brain such as thoughts, perceptions or feelings can be explored.

*Die Optogenetik nützt lichtgesteuerte „Schalter“ in genetisch modifizierten Zellen, um etwa die elektrischen Impulse von Nervenzellen zu kontrollieren. Es lassen sich damit gewisse neurale Funktionen fernsteuern und hochkomplexe neurale Schaltkreise und Prozesse wie Gedanken, Wahrnehmungen oder Gefühle im Gehirn erkunden.*

	<b>Gero Miesenböck</b>	Waynflete Professor of Physiology and Director, Centre for Neural Circuits and Behaviour, University of Oxford
Chair	<b>Lynn Faith Gladden</b>	Shell Professor of Chemical Engineering, Department of Chemical Engineering and Biotechnology, University of Cambridge

Friday, 25.08.2017

Plenary

10:30–12:15

ELISABETH-HERZ-KREMENAK-SAAL

PANEL

## Designing the next digital revolution. At the crossroads of science, technology and art

### *Die nächste digitale Revolution gestalten. Auseinandersetzungen von Wissenschaft, Technologie und Kunst*

SIMULTANEOUS TRANSLATION

While the internet of things is in the midst of deploying an algorithmic approach to organizing industry, work and society 4.0, avant-gardists from a variety of disciplines have started to design a sustainable and meaningful human vision of digital modernity. The panel will discuss how values and the principles of the commons serve as a basis for renewing both the eco-social market economy and European integration and why digitisation will be the driving force for this change.

*Während das Internet der Dinge Industrie, Arbeit und Gesellschaft 4.0 algorithmisch organisiert, haben Avantgardisten aus allen Bereichen begonnen, eine nachhaltige und sinnstiftende menschliche Vision der Digitalen Moderne zu gestalten. Das Panel erörtert wie Werte und Grundsätze der Gemeinwohlökonomie (Commons) als Basis für die Erneuerung der ökosozialen Marktwirtschaft und des europäischen Einigungswerks dienen und warum die Digitalisierung der Motor eines solchen Wandels sein wird.*

<b>Susana Martin Belmonte</b>	Independent Economist, Writer and Digital Economics Specialist, Barcelona
<b>Harald Gründl</b>	Co-Founder and Managing Partner, EOOS Design Studio; Founder and Director, Institute of Design Research Vienna
<b>Verena Winiwarter</b>	Professor for Environmental History, Institute of Social Ecology, University of Klagenfurt
<b>Chair Christoph Thun-Hohenstein</b>	General Director and Artistic Director, Austrian Museum of Applied Arts / Contemporary Art; Head, Vienna Biennale, Vienna

Friday, 25.08.2017

Plenary

18:30–19:30

ELISABETH-HERZ-KREMENAK-SAAL

PANEL

## China Manufacturing 2025: putting industrial policy ahead of market forces?

*Chinas „Made in China 2025“-Strategie – Staat vor Markt?*

SIMULTANEOUS TRANSLATION

The industrial policy strategy "Made in China 2025" deals with nothing less than a renewal of the Chinese economy. While in the Western world it is assumed that this should mostly best be left to market forces, China is relying on the state. Based on the results of the study «China Manufacturing 2025. Putting Industrial Policy Ahead of Market Forces» of the European Union Chamber of Commerce in China we will discuss the challenges that European industry will face in the next 10 years and how Europe can address them.

*Im Rahmen der Industriepolitik „Made in China 2025“ geht es um nicht weniger als die Erneuerung der chinesischen Wirtschaft. Während man in der westlichen Welt davon ausgeht, dass dies großteils den Marktkräften überlassen werden sollte, setzt man in China auf den Staat. Anhand der Ergebnisse der Studie «China Manufacturing 2025. Putting Industrial Policy Ahead of Market Forces» der Europäischen Handelskammer in China wird diskutiert, was in den nächsten 10 Jahren auf die europäische Industrie zukommt und wie Europa der neuen Herausforderung begegnen kann.*

<b>Hannes Androsch</b>	Industrialist; Chairman of the Board, AIT Austrian Institute of Technology GmbH; Chairman, Austrian Council for Research and Technology Development, Vienna
<b>Markus Rodlauer</b>	Deputy Director, Asia and Pacific Department, International Monetary Fund, Washington D.C.
<b>Jörg Wuttke</b>	President, European Union Chamber of Commerce China, Beijing
<b>Rainer Nowak</b>	Editor-in-Chief, Die Presse, Vienna

Chair

Saturday, 26.08.2017

Plenary

9:00–10:30

ELISABETH-HERZ-KREMENAK-SAAL

PANEL

# Managing complex systems

## *Komplexe Systeme managen*

SIMULTANEOUS TRANSLATION

The management of complex systems is one of the most urgent challenges for society, industry and government – ranging from technology, production, transportation, finance, economy, to healthcare, medicine and the environment. Essential for any monitoring and control is the capability to merge the understanding of the dynamics of complex systems with big relational data. In this panel, we want to discuss the tremendous potential and challenges of understanding complex systems for the benefit of society.

*Das Management komplexer Systeme gehört zu den größten Herausforderungen für Gesellschaft, Wirtschaft und Regierungen – von der Technologie über Produktion, Verkehr, Finanzwelt, Wirtschaft bis zu Gesundheitswesen, Medizin und Umwelt. Voraussetzung für jegliches Monitoring ist die Fähigkeit, das Verständnis für die Dynamik komplexer Systeme mit großen relationalen Datenmengen zu vereinen. In diesem Panel werden wir das riesige Potenzial und die Herausforderungen für das Verständnis komplexer Systeme zum Wohle der Gesellschaft diskutieren.*

<b>Simon DeDeo</b>	Assistant Professor, Carnegie Mellon University, Pittsburgh (PA)
<b>Vittorio Loreto</b>	Professor of Physics, Complex Systems Group, Sapienza University Rome; Research Leader and Head, Information Dynamics Group, ISI – Institute of Scientific Interchange Foundation, Rome
<b>Stefan Thurner</b>	Professor and Head, Section for Science of Complex Systems, Medical University of Vienna; President, Complexity Science Hub Vienna
Chair <b>Helga Nowotny</b>	Member, Austrian Council for Research and Technology Development; Former President, European Research Council; Chair, ERA Council Forum Austria, Vienna

Saturday, 26.08.2017

Plenary

10:50–12:15

ELISABETH-HERZ-KREMENAK-SAAL

PANEL

## The second quantum revolution?

### *Die zweite Quantenrevolution?*

SIMULTANEOUS TRANSLATION

Quantum research constantly surprises us with new discoveries and the radical new technologies which it allows to be developed. However, it will still take some time until the first commercially applicable quantum computer is up and running. Fields like quantum informatics, quantum optics and electronics have been making huge progress lately. Where do we stand today?

*Die Quantenforschung überrascht laufend mit neuen Erkenntnissen. Daraus entwickeln sich nun erste Technologien, wenn es auch noch dauern wird, bis der erste kommerzielle Quantenrechner läuft. Bereiche wie die Quanteninformatik, Quantenoptik und -elektronik haben aber große Fortschritte gemacht. Wo stehen wir?*

<b>Rainer Blatt</b>	Professor, Institute of Experimental Physics, University of Innsbruck; Managing and Research Director, Institute for Quantum Optics and Quantum Information of the Austrian Academy of Sciences, Innsbruck
<b>Tommaso Calarco</b>	Professor and Director, Centre for Integrated Quantum Science and Technology, University of Ulm
<b>Heike Riel</b>	IBM Fellow, Director Physical Sciences, IBM Research, Zurich
<b>Robert-Jan Smits</b>	Director-General for Research and Innovation, European Commission, Brussels
<small>Chair</small> <b>Maria Chiara Carrozza</b>	Professor of Industrial Bioengineering, Biorobotics Institute, Sant'Anna School of Advanced Studies; Member of the Italian Chamber of Deputies; Pisa

# Gravitational waves

## *Gravitationswellen*

### SIMULTANEOUS TRANSLATION

In 2015, for the first time researchers were able to measure a gravitational wave. The fusion of two black holes had hurled huge amounts of energy into space. All accelerated masses produce gravitational waves. The European GEO Collaboration will develop new detector technologies to further track these waves, creating completely new possibilities for space exploration.

*Im September 2015 konnte erstmals eine Gravitationswelle gemessen werden. Die Fusion zweier schwarzer Löcher hatte riesige Energiemengen ins Weltall geschleudert. Gravitationswellen produzieren alle beschleunigten Massen. Die europäische GEO-Kollaboration entwickelt dafür neue Detektortechnologien, die völlig neue Möglichkeiten zur Erforschung des Weltalls bieten.*

<b>Karsten Danzmann</b>	Professor and Director, Max Planck Institute for Gravitational Physics, Gottfried Wilhelm Leibniz Universität Hannover
<small>Chair</small> <b>Lynn Faith Gladden</b>	Shell Professor of Chemical Engineering, Department of Chemical Engineering and Biotechnology, University of Cambridge

# BREAKOUT SESSIONS

Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

## 01 Digital futures: design as key to future digital worlds *01 Digitale Zukunft: Design als Schlüssel zukünftiger digitaler Welten*

ENGLISH LANGUAGE

The digital technologies of the future present new opportunities and challenges. We are facing critical questions of design – how do we solve problems with and for digital technologies? Engineering alone cannot answer these questions; we also need creative/scientific/artistic approaches. What will these approaches look like? What are the digital worlds of the future? What meaning can we already discern from the ongoing intensive merging of physical and digital worlds and the transgressive behaviours that appear to be connected to this?

*Zukünftige Digitaltechnologien eröffnen neue Möglichkeiten und Herausforderungen. Aus der Sicht des Menschen stehen wir dabei vor zentralen Fragen des Designs (der Problemlösung mit und für digitale Technologien). Engineering alleine kann diese Fragen nicht beantworten, es braucht gestalterische/wissenschaftliche/künstlerische Herangehensweisen. Was macht diese Herangehensweisen aus? Welche Kompetenzen braucht es, um mit Ungewissheiten umgehen zu können? Was sind digitale Welten der Zukunft? Was bedeuten die intensive Vermischung von physischen und digitalen Welten und die diesbezüglichen Grenzübertritte?*

Introduction	<b>Wilfried Haslauer</b>	Governor, Province of Salzburg
	<b>Franz Aschl</b>	Head of Management Innovation, SIGMATEK GmbH & Co KG, Lamprechtshausen; Chief Executive Officer, SIGMATEK Automation Co. Ltd., Ningbo/China
	<b>Laura Devendorf</b>	Assistant Professor, ATLAS Institute, University of Colorado, Boulder (CO)
	<b>Lone Koefoed Hansen</b>	Associate Professor in Digital Design and Aesthetics, School of Communication and Culture, Aarhus University, Aarhus
	<b>Hilmar Linder</b>	Professor & Head, Degree Programme MultiMediaTechnology, Salzburg University of Applied Sciences
	<b>Petra Sundström</b>	Director Idea and Innovation Management, Husqvarna Group, Stockholm
	<b>Andrea Wald</b>	Programme Manager, PEEK Programme for Arts-Based Research, FWF – Austrian Science Fund, Vienna
Chair	<b>Manfred Tscheligi</b>	Professor of Human-Computer Interaction, Center for Human-Computer Interaction, University of Salzburg; Head, Center for Technology Experience, AIT Austrian Institute of Technology GmbH, Vienna
Coordination	<b>Martin Murer</b>	Research Fellow, Center for Human-Computer Interaction, University of Salzburg

Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

## 02 The promotion of research and innovation in Austria: governance between management and autonomy

### 02 Forschungs- und Innovationsförderung in Österreich: Governance zwischen Steuerung und Autonomie

GERMAN LANGUAGE

More than 10 years after their institutional mergers in their present form, Austria's federal promotional bank Austria Wirtschaftsservice (AWS) and the Austrian Research Promotion Agency (FFG) are the central promotion agencies for applied research, technology and innovation for the country. The institutional evaluation of AWS and FFG deals with organizational questions as well as their systemic integration with regard to ownership, commissioning and independent activities. Has the Austrian multidimensional and interdependent model proven itself? What about the future – should form follow function or should we address the problem the other way round?

*Mehr als 10 Jahre nach ihrem institutionellen Merger in die heutige Form sind die Austria Wirtschaftsservice (AWS) und die Österreichische Forschungsförderungsgesellschaft (FFG) die zentralen Förderungsagenturen im Bereich angewandter Forschung, Technologie und Innovation. Die institutionelle Evaluierung von AWS und FFG behandelt sowohl organisationale Fragen wie auch die systemische Einbettung der Agenturen im Zusammenhang mit Eigentümerschaft, Beauftragungen und eigenständigen Wirkungsbereichen. Hat sich das österreichische multidimensionale und interdependente Modell bewährt? Wie sieht die Zukunft aus – form follows function oder doch umgekehrt?*

Keynote	<b>Tobias Bach</b>	Associate Professor, Department of Political Science, University of Oslo
Discussion	<b>Knut Koschatzky</b>	Head of Department, Competence Center Policy-Industry-Innovation, ISI – Fraunhofer Institute for Systems and Innovation Research, Karlsruhe
	<b>Sylvia Schwaag Serger</b>	Executive Director, Vinnova Swedish Government Agency for Innovation, Stockholm; Adjunct Professor Research Policy, Lund University
	<b>Klara Sekanina</b>	Member, Austrian Council for Research and Technology Development; Member of the Board, Swiss Federal Foundation for Promotion of the National Economy through Scientific Research; Member of the Advisory Board, Impact Hub Zurich
Chair	<b>Rupert Pichler</b>	Head, Department III/I 2 – Promotion of Research and Technology, Austrian Federal Ministry for Transport, Innovation and Technology, Vienna
Coordination	<b>Mario Steyer</b>	Staff Member, Department III/I 2 – Promotion of Research and Technology, Austrian Federal Ministry for Transport, Innovation and Technology, Vienna



Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

## 03 Data-driven innovation – from resources to strategies

### *03 Data-driven innovation – von der Ressource zur Strategie*

ENGLISH LANGUAGE

Optimal resource usage and supply has always been a critical challenge for industrial production processes. In our connected world, the exponentially growing amount of data constitutes a potential resource. Successfully harvesting these data allows companies to develop innovative solutions for products, processes and services, giving them a competitive advantage over other market contenders. What kind of innovation capacity is hidden in huge amounts of data for companies? How can we develop the full potential of "data-driven innovation"?

*Die Versorgung mit und optimale Nutzung von Ressourcen ist von jeher eine zentrale Herausforderung bei Produktionsprozessen in der Industrie. In unserer vernetzten Welt sind die exponentiell wachsenden Datenmengen eine potenzielle Ressource. Unternehmen, die daraus Mehrwert kreieren und innovative Lösungen für Produkte, Prozesse und Services entwickeln, verfügen über ein starkes Asset im Wettbewerb. Welche Innovationskraft steckt in der großen Datenmenge für Unternehmen? Wie kann das volle Potenzial einer „data-driven innovation“ freigesetzt werden?*

<b>Andreas Hedrich</b>	Chief Technology Officer, UBIMET GmbH, Vienna
<b>Stefanie Lindstaedt</b>	Professor and Head, Institute of Interactive Systems and Data Science, Graz University of Technology; Chief Executive Officer, Know-Center GmbH, Graz
<b>Johann Pluy</b>	Managing Director, ÖBB-Business Competence Center GmbH, Vienna
<b>Heike Riel</b>	IBM Fellow, Director Physical Sciences, IBM Research, Zurich
<b>Philipp Von Lattorff</b>	Chief Executive Officer, Boehringer Ingelheim RCV GmbH & Co KG, Vienna
<small>Chair</small> <b>Peter Koren</b>	Deputy Director General, Federation of Austrian Industries, Vienna
<small>Coordination</small> <b>Anna Bohrn</b>	Advisor, Department of Research, Technology and Innovation, Federation of Austrian Industries, Vienna

Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

## 04 Open science, dark knowledge: science in an age of ignorance

### *04 Open science, dark knowledge: Wissenschaft in einer Zeit der Ignoranz*

ENGLISH LANGUAGE

In the era of big data, ever more data is being accumulated every year. Yet there is currently no parallel increase in actual public knowledge. The concept of open science is important, but complementary approaches are urgently needed for narrowing the gap between potential (given the amount of data and information that are produced) and actual public knowledge – we call this gap dark knowledge. In this session, leading international experts will discuss how to cope with increasing levels of ignorance and misinformation in decision-making processes.

*Im Zeitalter von Big Data akkumulieren jedes Jahr mehr Daten und Informationen. Jedoch gibt es keinen parallelen Anstieg an echtem, öffentlichem Wissen. Das Konzept von Open Science ist wichtig, jedoch brauchen wir dringend komplementäre Ansätze, um die Lücke zwischen möglichem (abhängig von der Menge an produzierten Daten und Informationen) und tatsächlichem, öffentlichem Wissen zu verringern – wir bezeichnen diese Lücke als ‚dark knowledge‘. Im Arbeitskreis werden führende ExpertInnen diskutieren, wie mit zunehmendem Nichtwissen und Desinformation in Entscheidungsprozessen umzugehen ist.*

Introduction	<b>Harald Mahrer</b>	Austrian Federal Minister of Science, Research and Economy, Vienna
	<b>Katy Börner</b>	Victor H. Yngve Distinguished Professor, Department of Intelligent Systems Engineering & Department of Information and Library Science, School of Informatics and Computing, Indiana University, Bloomington
	<b>Matthias Gross</b>	Head, Department of Urban and Environmental Sociology, UFZ Helmholtz Centre for Environmental Research, Leipzig
	<b>Jonathan Jeschke</b>	Professor of Ecological Novelty, Leibniz-Institute of Freshwater Ecology & Inland Fisheries and Institute of Biology, Department of Ecosystem Research, Freie Universität Berlin
	<b>Linsey Mcgoey</b>	Director of Postgraduate Taught, Department of Sociology, University of Essex, Colchester
	<b>Roger Pielke</b>	Director, Sports Governance Center, Department of Athletics, University of Colorado, Boulder
	<b>Victoria Stodden</b>	Associate Professor, School of Information Sciences, University of Illinois, Champaign (IL)
Chair	<b>Klement Tockner</b>	President, Austrian Science Fund, Vienna; Professor, Aquatic Ecology, Freie Universität Berlin
Coordination	<b>Marie-Louise Skolud</b>	Scientific Assistant, Austrian Federal Ministry of Science, Research and Economy, Vienna

Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

## 05 Second machine age: learning machines – autonomous machines

### *05 Second Machine Age: Lernende Maschinen – Autonome Maschinen*

ENGLISH LANGUAGE

The world is at the beginning of the next paradigm shift: IBM is promoting the topic of "cognitive computing", and for Google, "Mobile First" now follows "AI First." Machines are becoming more and more intelligent and autonomous. Machines have learnt how to solve problems without having to be especially programmed. The question is not if but how quickly this paradigm shift will affect our societies. The co-workers of the future will be autonomous learning machines. The aim of the breakout session is to discuss the resulting opportunities and effects on the economy and how to take the next steps with new projects.

*Die Welt steht am Beginn eines Paradigmenwechsels: IBM propagiert z.B. „Cognitive Computing“ und Google nun „Mobile First“ nach „AI First“. Maschinen werden intelligenter und autonomer. Sie lernen Probleme zu lösen ohne zielgerichtete Programmierung. Die Frage ist nicht ob, sondern wann dieser Paradigmenwechsel unsere Gesellschaft trifft. Die Arbeitskollegen der Zukunft werden autonome und lernende Maschinen sein. Die sich ergebenden Chancen und Auswirkungen auf Wirtschaft und Gesellschaft werden in der Breakout Session diskutiert mit dem Ziel, nächste Schritte in Form von Projekten zu definieren.*

Introduction	<b>Michael Strugl</b>	Deputy Governor, State of Upper Austria, Linz
	<b>Monika Kofler</b>	Software Development Manager, Amazon Development Centre Scotland, Edinburgh
	<b>Christoph Kramer</b>	Head, Technology Control Contract Manufacturing, MAGNA STEYR Fahrzeugtechnik AG & Co KG, Graz
	<b>Burton Lee</b>	Lecturer, Department of Mechanical Engineering and Course Director, European Entrepreneurship and Innovation, Stanford University; Managing Partner, Innovarium Ventures; Stanford (CA)
	<b>Christopher Lindinger</b>	Director Research and Innovation, Ars Electronica Futurelab, Linz
	<b>Bernhard Nessler</b>	Research Group Leader, Institute of Bioinformatics, Johannes Kepler University Linz
	<b>Sonja Zillner</b>	Senior Key Expert, Corporate Technology, Siemens AG, Munich
Chair	<b>Wolfgang Freiseisen</b>	Managing Director, RISC Software GmbH, Linz
Coordination	<b>Tanja Spennlingwimmer</b>	Head of Investor and Location Management, Business Upper Austria – OÖ Wirtschaftsagentur GmbH, Linz

Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

## 06 From the lab to the plate – the vegan black pudding (Blunzengröstl)

### 06 Vom Labor auf den Teller – das vegane Blunzengröstl

GERMAN LANGUAGE

There are 7.389 billion people in the world who need to be fed. Whereas in some regions food is just a means to survive, highly developed countries have fashioned a cult around nutrition. You ARE what you EAT. Has food become the expression of a lifestyle? How can we supply the world with nutritional, high-quality and affordable food while considering all the eco-sociological aspects, limited resources and CO2 emissions? Using state-of-the-art technological and chemical knowledge, industry is designing perfect foods, but there is a growing desire among consumers for natural, healthy food. How do we reconcile these developments?

*Auf der Welt leben zur Zeit 7,389 Mrd. Menschen, diese wollen ernährt werden. Während in einigen Regionen Nahrung als Mittel zum Überleben gilt, hat sich in den hoch entwickelten Ländern ein Kult um das Thema Ernährung entwickelt. „Man IST was man ISST“. Sind Lebensmittel Ausdruck eines Lifestyles geworden? Wie können wir die Welt mit ernährungswissenschaftlich hochwertigen, erschwinglichen Lebensmitteln versorgen unter Berücksichtigung aller ökosozialologischen Aspekte, Ressourcenknappheit und CO2-Problematik? Die Industrie designt mit bestem technologischem und chemischem Wissen das perfekte Lebensmittel, dennoch wächst beim Konsumenten immer mehr der Wunsch nach natürlichem, gesundem Essen.*

Introduction	<b>Petra Bohuslav</b>	Member of the Provincial Government of Lower Austria for Economic Affairs, Tourism, Technology and Sports, St. Pölten
	<b>Andreas Gebhart</b>	Managing Director, VeggieMeat GmbH, St. Georgen am Ybbsfelde
	<b>Ingrid Kiefer</b>	Head, Division for Risk Communications, Austrian Agency for Health and Food Safety, Vienna
	<b>Mark Post</b>	Professor of Vascular Physiology and Chair of Physiology, School for Cardiovascular Diseases, Maastricht University
	<b>Karl Schillinger</b>	Owner, Restaurant Schillinger, Großmugl; Schillinger's Swing Kitchen, Vienna
	<b>Martin Wagner</b>	Professor and Head, Institute of Milk Hygiene, Milk Technology and Food Science, University of Veterinary Medicine Vienna; Scientific Director, FFoQSI – Austrian Competence Centre for Feed and Food Quality, Safety and Innovation; Vienna
	<b>Gernot Zweytick</b>	Study Programme Director, Food Product Development and Resource Management, University of Applied Sciences Wiener Neustadt, Wieselburg
Chair	<b>Claus Zeppelzauer</b>	Head of Department, Company and Technology, ecoplus. The Business Agency of Lower Austria, St. Pölten
Coordination	<b>Karin Herzog</b>	Assistant to the Department and Project Manager, Company and Technology, ecoplus. The Business Agency of Lower Austria, St. Pölten

Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

## 07 Does industry 4.0 need education and training 4.0?

### 07 Braucht Industrie 4.0 eine (Aus)Bildung 4.0?

GERMAN LANGUAGE

Digitisation and automation are changing the world of work and societies to a degree never seen before. Not a day goes by without new application scenarios. How can schools prepare their students for the ongoing changes in the world of work? Which professions and skills will be in demand in the future? What are the opportunities for people with medium skill levels and what role will skilled work play in industry 4.0 scenarios? How will these technologies such as big data begin to change our living environment and how do we prepare young people for this process?

*Digitalisierung und Automatisierung verändern Arbeitswelt und Gesellschaft in einem bisher nicht erwarteten Ausmaß. Es vergeht kein Tag ohne neue Anwendungsszenarien. Wie kann die Schule auf die laufenden Änderungen der Arbeitswelt vorbereiten? Welche Berufe und welche Kompetenzen sind in Zukunft gefragt? Welche Chancen haben Ausgebildete mit mittlerer Qualifikation – Stichwort Facharbeit in Industrie-4.0-Szenarien? Wie verändern diese Technologien unsere Lebenswelt – Stichwort Big Data – und wie sollen die jungen Menschen darauf vorbereitet werden?*

Introduction	<b>Sonja Hammerschmid</b>	Austrian Federal Minister for Education, Vienna	
	<b>Julia Bock-Schappelwein</b>	Research Staff Member, Research Groups Labour Market, Income and Social Security, WIFO – Austrian Institute of Economic Research, Vienna	
	<b>Sabine Herlitschka</b>	Chief Executive Officer, Infineon Technologies Austria AG, Villach	
	<b>Heinz Hollerweger</b>	General Manager – Strategy Group, Audi AG, Ingolstadt	
	<b>Kurt Matyas</b>	Professor, Institute of Management Science, and Vice Rector for Academic Affairs, Vienna University of Technology, Vienna	
	<b>Isabella Meran-Waldstein</b>	Head, Department of Research, Technology and Innovation, Federation of Austrian Industries, Vienna	
	<b>Andreas Probst</b>	Teacher, Higher Technical Institute Ried im Innkreis and Technikum Linz	
	<b>Lars Windelband</b>	Professor for Technology and Didactics and Dean of Studies, University of Education Schwäbisch Gmünd	
	Chair	<b>Christian Dorninger</b>	Head, Directorate of Technical, Vocational and Adult Education, Austrian Federal Ministry of Education, Vienna
	Coordination	<b>Christian Schrack</b>	Expert on School and Research, Division II/8 – IT Didactics and Digital Media, Austrian Federal Ministry of Education, Vienna

Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

## 08 Smart production and services

ENGLISH LANGUAGE

The increasing upgrade of things with intelligence and the disrupting new means of communication change markets and business models dramatically and with sustain. The digitalization of our economic world consequently also captures the world of production and the inherent world of services. Discussing smart production and services undoubtedly touches a sphere full of chances and benefits but also its conflicts and potential limits.

TU Austria as Union of all Universities of Technology in Austria – located in Vienna, Graz and Leoben – has been doing research on these topics at a very early stage. TU Austria has organized this afternoon with remarkable speakers from industry and service-oriented companies.

*Die zunehmende Ausstattung von Geräten mit Intelligenz und neuen disruptiven Kommunikationseigenschaften verändert Märkte und Geschäftsmodelle dramatisch und nachhaltig. Die Digitalisierung unserer Wirtschaftswelt erfasst dabei auch tief die Welt des Produzierens und der damit einhergehenden Dienstleistungen. Wir diskutieren das Thema mit all seinen Chancen und Vorteilen, beleuchten aber auch die Konflikte und potenziellen Grenzen.*

*Die TU Austria als Verbund der Österreichischen Technischen Universitäten in Wien, Graz und Leoben hat sich dieser Themenstellungen schon frühzeitig angenommen und gestaltet diesen Nachmittag mit namhaften Referentinnen und Referenten aus Industrie und Dienstleistung.*

Introduction	<b>Harald Kainz</b>	Rector, Graz University of Technology; Vice President, TU Austria, Graz
	<b>Eric Charran</b>	Chief Architect, Data Insights Group, Microsoft Corporation, Malvern (PA)
	<b>Harald Dutzler</b>	Managing Partner, PwC Strategy& Austria GmbH, Vienna
	<b>Sandra Lamm</b>	Project Manager, Manufacturing, AT&S Austria Technologie & Systemtechnik Aktiengesellschaft, Leoben
	<b>Sven Stegemann</b>	Professor of Patient Centric Drug Design and Manufacturing, Graz University of Technology, and Research Center Pharmaceutical Engineering GmbH; Director, Pharmaceutical Business Development, Capsugel S.A., Colmar
	<b>Hermann Stockinger</b>	Chief Executive Officer and Founder, easE-Link GmbH, Graz
	<b>Wolfgang Zitz</b>	Vice President, Contract Manufacturing, MAGNA STEYR, Graz
Chair	<b>Rudolf Pichler</b>	Professor and Deputy Director, Institute of Production Engineering, Graz University of Technology
Coordination	<b>Franz Haas</b>	Professor and Head, Institute of Production Engineering, Graz University of Technology, Graz

Friday, 25.08.2017

Breakout

13:00–18:00

HOTEL BÖGLERHOF

WORKING GROUP

## 09 Conflict and cooperation in the era of digitisation

### *09 Konflikt und Kooperation im Zeitalter der Digitalisierung*

GERMAN LANGUAGE

The digital era offers unexpected opportunities but also poses new challenges. Increasingly we have to answer the question if conflicts in the information society of tomorrow will be intensified or can provide opportunity. Information technologies have had an impact on social and cultural life for quite some time, but increasingly they are also influencing research, science, economy and politics. What strategies can contribute to alleviate conflicts and which may serve to avoid them altogether? And can those strategies keep up with the speed of change in the digital media age?

*Das digitale Zeitalter bietet ungeahnte Möglichkeiten, aber auch Herausforderungen. Es stellt sich zunehmend die Frage, ob Konflikte in der Informationsgesellschaft des 21. Jh. verstärkt werden oder ob Konflikte als Chance dienen können. Die neuen Informationstechnologien haben längst den sozialen und kulturellen Lebensbereich erfasst, auch zunehmend Einfluss auf Forschung, Wissenschaft, Wirtschaft und Politik. Welche Strategien tragen zur Konfliktlösung bei und welche dienen der Konfliktvermeidung? Und können diese bei dem Tempo des digitalen Medienzeitalters mithalten?*

Keynote	<b>Muna Duzdar</b>	State Secretary, Austrian Federal Chancellery, Vienna
Discussion	<b>Hubert Faustmann</b>	Director, Friedrich-Ebert-Foundation; Professor, School of Law, Department of European Studies and International Relations, University of Nicosia
	<b>Walter Peer</b>	Managing Director, Communalp GmbH, Innsbruck
	<b>Viktoria Weber</b>	Professor of Applied Biochemistry and Vice-Rector for Research, Danube University Krems
	<b>Christian Wehrschütz</b>	Correspondent for Southern and Eastern Europe, Austrian Broadcasting Corporation, Belgrade
Chair	<b>Friedrich Faulhammer</b>	Rector, Danube University Krems
Chair	<b>Gabriele Ambros</b>	President, Forschung Austria; Managing Partner, Bohmann Publishing Group and Holzhausen Scientific Publishing, Vienna
Coordination	<b>Robert Lichtner</b>	Secretary General, Forschung Austria; Managing Director, Holzhausen Scientific Publishing and Bohmann Publishing Group, Vienna

Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

## 10 The Paris lifestyle – technologies and opportunities for climate protection

### *10 Der Paris-Lebensstil – Technologien und Chancen für den Klimaschutz*

ENGLISH LANGUAGE

The 2015 Paris Climate Protection Agreement that has been signed by 114 countries stipulates to limit global warming at no more than 1.5° C by 2100. This entails a rapid switch to renewable energies and a significant increase in energy efficiency. Based on current facts on climate change, international experts will present the future-oriented technology portfolio and climate-friendly lifestyles to reach the goals of the 2015 Paris Climate Protection Agreement. We will discuss the different views regarding opportunities and potentials for conflict resulting from the necessary technological, social and economic transformations.

*Das mittlerweile von 114 Staaten ratifizierte Klimaschutzabkommen von Paris 2015 sieht vor, die globale Erwärmung auf möglichst 1,5°C bis 2100 zu begrenzen. Hierzu sind ein rascher Umstieg auf erneuerbare Energien und eine signifikante Steigerung der Energieeffizienz notwendig. Ausgehend von den aktuellen Fakten zum Klimawandel stellen internationale ExpertInnen das zukunftsfähige Technologie-Portfolio und klimafreundliche Lebensstile zur Erreichung der Ziele des Klimaschutzabkommens von Paris 2015 vor. Es werden unterschiedliche Sichtweisen zu Chancen wie auch Konfliktpotenzialen infolge der notwendigen technologischen, gesellschaftlichen und wirtschaftlichen Umbrüche diskutiert.*

<b>Harald Hagenauer</b>	Head of Investor Relations, Österreichische Post AG, Vienna
<b>Daniela Jacob</b>	Director, Climate Service Center Germany, Helmholtz-Zentrum Geesthacht, Hamburg
<b>Carsten Nathani</b>	Member of the management board, Rütter Soceco AG Socio-economic research and consultancy, Rüschklikon
<b>Hugo-Maria Schally</b>	Head of Unit, Sustainable Production, Products and Consumption, Directorate General for Environment, European Commission, Brussels
<b>Ralph Sims</b>	Professor of Sustainable Energy and Director, Centre for Energy Research, Massey University, Palmerston North
<b>Daniela Velte</b>	Programmes Director and Senior Researcher, POINT – Policies for Innovation and Technology, Tecnalia Research & Innovation, Donostia – San Sebastián
Chair <b>Franz Prettenthaler</b>	Director, LIFE – Centre for Climate, Energy and Society, JOANNEUM RESEARCH Forschungsgesellschaft mbH, Graz
Coordination <b>Gerfried Jungmeier</b>	Deputy Director, LIFE – Centre for Climate, Energy & Society, JOANNEUM RESEARCH Forschungsgesellschaft mbH, Graz



Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

# 11 Conflict, cooperation – or both: how does innovation occur?

## *11 Konflikt, Kooperation oder beides: Wie entsteht Innovation?*

ENGLISH LANGUAGE

Innovation emerges from ideas only when they are implemented in new products or services that are successful and penetrate the market. The means of achieving this goal can be arduous. The breakout session of the Climate and Energy Fund examines how much cooperation with consumers is needed in order to integrate innovative (energy) technologies on a permanent basis, and how much conflict innovation can be expected to withstand. How important are legal requirements and how can market research help? Can we perhaps learn lessons from military strategists into the resolution of conflict between innovation and consumers?

*Innovation entsteht erst dann, wenn Ideen in neue Produkte oder Dienstleistungen umgesetzt werden, die tatsächlich Anwendung finden und den Markt durchdringen. Der Weg dorthin kann beschwerlich sein. Die Breakout Session des Klima- und Energiefonds diskutiert, wieviel Kooperation nötig ist, um innovative (Energie-)Technologien dauerhaft in Systeme zu integrieren, und wieviel Konflikt Innovation aushält oder benötigt. Wie wichtig sind gesetzliche Vorgaben? Kann die Marktforschung unterstützen? Können wir von Militärstrategen lernen, wie Konflikte gelöst werden können?*

	<b>Harald Katzmair</b>	Founder and Director, FASresearch, Vienna
	<b>Siegrun Klug</b>	Psychologist and Market Research Expert, u.s.e. Institut für nachhaltige Energienutzung – Forschung, Kommunikation und Innovation, Vienna
	<b>Susanne Michaelis</b>	Officer Environment and Smart Energy, Emerging Security Challenges Division, NATO – North Atlantic Treaty Organization Headquarters, Brussels
	<b>Roland Werner</b>	Head of Government Affairs and Policy Germany-Austria-Switzerland, Uber, Berlin
	<b>Theodor Zillner</b>	Deputy Head, Department of Energy and Environmental Technologies, Austrian Federal Ministry for Transport, Innovation and Technology, Vienna
Chair	<b>Markus Mooslechner</b>	Director and Executive Producer, Format Development, Terra Mater Factual Studios GmbH, Vienna
Chair	<b>Theresia Vogel</b>	Managing Director, Climate and Energy Fund, Vienna
Coordination	<b>Katja Hoyer</b>	Public Relations Manager, Climate and Energy Fund of the Austrian Government, Vienna

Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

## 12 The competition for resources as a driver of green technologies

### *12 Wettbewerb um Ressourcen als Treiber von Green Technologies*

GERMAN LANGUAGE

Resource conflict can lead to innovation in both societies and technology development, as has been indicated by the successful creation of a broad range of environmental and energy technologies. There are ongoing conflicts for scarce resources on both global and local levels. Growing world population and increasing prosperity will lead to enhanced competition for resources and the potential for conflict may even include armed hostilities. Therefore, it will be critical to increase resource efficiency through innovative technology to guarantee sustainable developments on a national and global level.

*Konflikte um Ressourcen bewirken Veränderungen in der Gesellschaft, aber auch in der Technologieentwicklung, wie z.B. die erfolgreiche Etablierung einer breiten Palette von Umwelt- und Energietechnologien. Global, aber auch lokal gibt es weiterhin Konflikte wegen knapper Ressourcen. Bei steigender Weltbevölkerung und steigendem Wohlstand wird der Wettbewerb um Ressourcen zunehmen und hat Konfliktpotenzial bis hin zu bewaffneten Auseinandersetzungen. Ressourceneffizienz durch innovative Technologien ist daher entscheidend für eine nachhaltige Entwicklung national und global.*

Introduction	<b>Andrä Rupprechter</b>	Minister, Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management, Vienna
	<b>Ingmar Höbarth</b>	Managing Director, Climate and Energy Fund, Vienna
	<b>Silvia Schweiger-Fuchs</b>	Managing Director, BTW Plant Solutions and REDWAVE, BT-Wolfgang Binder GmbH, Gleisdorf
	<b>Manfred Stadlbauer</b>	Senior Researcher, Economica – Institute of Economic Research, Vienna
	<b>Helge Wendenburg</b>	Director-General for Water Management and Resource Conservation, German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety, Bonn
Chair	<b>Georg Rebernik</b>	Managing Director, Environment Agency Austria, Vienna
Chair	<b>Andreas Tschulik</b>	Head of Department, Environmental Protection at Company Level and Technology, Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management, Vienna
Coordination	<b>Josef Behofsics</b>	Collaborator, Department of Environmental Protection at Company Level and Technology, Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management, Vienna

Friday, 25.08.2017

Breakout

13:00–18:00

HAUPTSCHULE

WORKING GROUP

## 13 A new Biedermeier in Europe?

### *13 Neues Biedermeier in Europa?*

GERMAN LANGUAGE

Whereas the process of European integration had made huge progress in the second half of the 20th century, we seem to be in a disintegrating phase right now. Many political areas show "Biedermeier" tendencies, also affecting energy policy. Germany's unilateralism in radically restructuring its power system without corresponding grid development has consequences for electrical supply systems in all of Europe. Will a "new Biedermeier" also affect energy policy? Are the days of seeking big solutions for the process of European integration now gone?

*Nach großen Fortschritten im europäischen Einigungsprozess in der zweiten Hälfte des 20. Jahrhunderts scheint nun eine Phase der Desintegration angebrochen. In vielen Politikbereichen sind „biedermeierliche“ Tendenzen festzustellen, auch in der Energiepolitik. Der Alleingang Deutschlands beim Radikalumbau des Stromsystems ohne entsprechenden Netzausbau hat Konsequenzen für das Versorgungssystem in Europa. Erreicht ein „neues europäisches Biedermeier“ auch die Energiepolitik? Ist die Zeit großer Lösungen des europäischen Einigungsprozesses vorbei?*

<b>Ulrike Baumgartner-Gabitzer</b>	Chief Executive Officer, Austrian Power Grid AG, Vienna
<b>Wilhelm Molterer</b>	Managing Director, EFSI – European Fund for Strategic Investments, Luxembourg
<b>Christian Redl</b>	Senior Associate, European Energy Cooperation, Agora Energiewende, Berlin
<b>Christian Sagmeister</b>	Head of Division Railway Systems, ÖBB-Infrastruktur AG, Vienna
<b>Erwin Smole</b>	Chief Strategy Officer SO; Co-Founder, Grid Singularity GmbH, Vienna
<small>Chair</small> <b>Andreas Lampl</b>	Editor-In-Chief, Trend, Vienna
<small>Coordination</small> <b>Claudia Riebler</b>	Partner, Pantarhei Corporate Advisors, Vienna

Friday, 25.08.2017

Breakout

9:00–18:00

LIECHTENSTEIN-SAAL

SCIENCE BASTLER

# Junior Alpbach – Science and Technology for Young People

## *Junior Alpbach – Wissenschaft und Technologie für junge Menschen*

GERMAN LANGUAGE

Participants: Only children of participants of the Technology Symposium aged 13 to 17 years or children that have special invitations from the Austrian Federal Ministry for Education and Women's Affairs.

Please note: limited number of participants, registration necessary!

Information and registration: Karin Kohlfürst, T +43 (664) 340 20 71, E [karin@highent.org](mailto:karin@highent.org)

*TeilnehmerInnen: Teilnahmberechtigt sind Jugendliche zwischen 13 und 17 Jahren, deren Eltern auch für die Technologiegespräche angemeldet sind (Beaufsichtigungspflicht) bzw. Jugendliche, die auf spezielle Einladung des Bundesministeriums für Bildung und Frauen an dem Programm teilnehmen.*

*Achtung: begrenzte Teilnehmerzahl, Anmeldung erforderlich!*

*Informationen und Anmeldung: Karin Kohlfürst, T +43 (664) 340 20 71, E [karin@highent.org](mailto:karin@highent.org)*

Welcome	<b>Sonja Hammerschmid</b>	Austrian Federal Minister for Education, Vienna
Welcome	<b>Barbara Weitgruber</b>	Director General for Scientific Research and International Relations, Austrian Federal Ministry of Science, Research and Economy, Vienna
Introduction	<b>Dorothe Smit</b>	Research Fellow, Center for HCI, University of Salzburg
Introduction	<b>Alina Krischkowsky</b>	Research Fellow, Center for Human-Computer Interaction, University of Salzburg
Introduction	<b>Martin Murer</b>	Research Fellow, Center for Human-Computer Interaction, University of Salzburg
	<b>Josef Mitterer</b>	University Professor ret., Institute of Philosophy, Alpen-Adria University of Klagenfurt »Fake news, truth, spoken words and realities«
	<b>Sara Katharina Wichelhaus</b>	Training Manager Culture and Public Relations Manager, FS1 – Community TV Salzburg »Fact or fake – how do fake news spring up?«
Coordination	<b>Kathryn List</b>	Member of the Council, European Forum Alpbach, Graz

Friday, 25.08.2017

Breakout

9:00–15:00

HAYEK-SAAL

SCIENCE BASTLER

## Ö1 Children's University Alpbach – Science and Technology for Kids

### Ö1 Kinderuni Alpbach – Wissenschaft und Technologie für Kinder

IN COOPERATION WITH YOUNG UNIVERSITY INNSBRUCK

#### GERMAN LANGUAGE

The children's programme of the Alpbach Technology Forum invites girls and boys aged seven to twelve years to solve the questions of "How?" and "Why?" in science and technology in an entertaining way. They get a chance to experience research hands-on and ask questions freely, thus gaining access to scientific themes in an enticing, surprising and above all comprehensible way. These are experiences that stimulate children to think and explore further and will also be passed on to a broader audience together with the radio programme "Ö1 Children's University".

Participants: Only children of participants of the Technology Symposium aged 7 to 12 years or children from the village of Alpbach with special invitations may be registered for this programme.

Please note: limited number of participants, registration necessary!

Information and registration: Claudia Klement, T +43 (50) 550-2045, E [claudia.klement@ait.ac.at](mailto:claudia.klement@ait.ac.at)

*Das Kinderprogramm der Alpbacher Technologiegespräche lädt Mädchen und Buben im Alter zwischen sieben und zwölf Jahren dazu ein, dem „Wie?“ und „Warum?“ von Wissenschaft und Technologie auf unterhaltsame Weise nachzugehen. Die Möglichkeit, Forschung hautnah zu erleben und unbefangenen Fragen zu stellen, erschließt wissenschaftliche Themen in reizvoller, überraschender und vor allem verständlicher Form. Erfahrungen, die zum Weiterdenken und Weiterforschen anregen und in Verbindung mit der Sendereihe „Die Ö1 Kinderuni“ auch einem breiteren Publikum vermittelt werden.*

*TeilnehmerInnen: Teilnahmeberechtigt sind Kinder zwischen sieben und zwölf Jahren, deren Eltern auch für die Technologiegespräche angemeldet sind (Beaufsichtigungspflicht) bzw. Kinder aus dem Ort Alpbach.*

*Achtung: begrenzte Teilnehmerzahl, Anmeldung erforderlich!*

*Informationen und Anmeldung: Claudia Klement, T +43 (50) 550-2045, E [claudia.klement@ait.ac.at](mailto:claudia.klement@ait.ac.at)*

Welcome	<b>Sonja Hammerschmid</b>	Austrian Federal Minister for Education, Vienna
Welcome	<b>Barbara Weitgruber</b>	Director General for Scientific Research and International Relations, Austrian Federal Ministry of Science, Research and Economy, Vienna
Keynote	<b>Thomas Lichtmanegger</b>	Research Fellow, Waste Treatment and Resource Management, Unit of Environmental Engineering, University of Innsbruck
Discussion	<b>Simon Haller</b>	Technical Assistant, Intelligent and Interactive Systems Group, Institute of Computer Science, University of Innsbruck
	<b>Katharina Seeber</b>	Volunteer Assistant, Department of Computer Science, University of Innsbruck
Coordination	<b>Martin Bernhofer</b>	Head, Science Department, ORF – Austrian Broadcasting Corporation – Programme Radio 1, Vienna

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# CULTURAL PROGRAMME

Thursday, 24.08.2017

Culture

11:00–11:45

ERWIN-SCHRÖDINGER-SAAL

VERNISSAGE

## #ART TEC: Interfaces between art, technology, and science #ART TEC: Schnittstellen von Kunst, Technologie und Wissenschaft

AN EXHIBITION IN COOPERATION WITH MAK – AUSTRIAN MUSEUM OF APPLIED ARTS / CONTEMPORARY ART AND VIENNA BUSINESS AGENCY WITH ITS CREATIVE CENTER DEPARTURE IN THE CONTEXT OF VIENNA BIENNALE 2017: ROBOTS. WORK. OUR FUTURE.

Against the background of the increasing digitalization of our work environment, the exhibition addresses new design strategies and relevant future fields of work: new (co-) creative work, new social work including working for the common good (commoning), and new sustainable work.

*Vor dem Hintergrund der zunehmenden Digitalisierung unserer Arbeitswelt thematisiert die Ausstellung neue Designstrategien und relevante Arbeitsfelder der Zukunft: neue (ko-) kreative Arbeit, neue soziale Arbeit einschließlich Arbeiten für Gemeingüter (Commoning) sowie neue nachhaltige Arbeit.*

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18:00–19:00

GALERIE SCHMIDT, REITH

EXHIBITION WALK

## Markus Bacher. Exhibition tour with the artist *Markus Bacher. Ausstellungsführung mit dem Künstler*

IN COOPERATION WITH GALLERY SCHMIDT, REITH

Gallery Schmidt presents Markus Bacher, a Tyrolean painter who has achieved success in both the Austrian and international art scene. The exhibition shows paintings of a new series of works by the artist.

*Mit Markus Bacher präsentiert die Galerie Schmidt einen Tiroler Maler, der sowohl in der österreichischen wie auch internationalen Kunst- und Kulturszene reüssieren konnte. In der Ausstellung sind Gemälde aus einer neuen Werkserie des Künstlers zu sehen.*

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Markus Bacher

Painter, Vienna/ Cologne/ Los Angeles

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**Friday, 25.08.2017****Culture**

20:30–22:00

ELISABETH-HERZ-KREMENAK-SAAL

CONCERT

## Catch-Pop String-Strong

"Witty, fizzy, quirky and groovy" – this is how Rina Kaçinari and Jelena Poprzan describe their own performances. They don't shy away from musical border-crossing, ranging from Balkan grooves to Bach and Brecht, with some comedian surprises thrown in.

*„Witzig, spritzig, schräg & groovy“ – so beschreiben Rina Kaçinari und Jelena Poprzan ihre Auftritte selbst. Dabei scheuen sie nicht vor musikalischen Grenzüberschreitungen zurück, die sich von Balkan-Grooves bis Bach und Brecht erstrecken, und überraschen dabei sogar mit komödiantischen Einlagen.*

Rina Kaçinari	Cellist; Singer; Composer, Catch-Pop String-Strong, Vienna
Jelena Poprzan	Violist; Singer; Performer; Composer, Catch-Pop String-Strong, Vienna

**Saturday, 26.08.2017****Culture**

17:30–18:30

CONGRESS CENTRUM ALPBACH

EXHIBITION WALK

## Up the garden path. A guided walk *Auf Wanderschaft. Ein Spaziergang*

Be inspired by the Holy Roman Emperor Ferdinand II's spirit of discovery and learn the fantastic stories of plants in local gardens with roots from all over the world. Specialists take you and other interested visitors on a guided tour of the botanical art trail through the gardens of Alpbach.

*Lassen Sie sich vom Entdeckergeist Ferdinand II. inspirieren und lernen Sie die fantastischen Geschichten längst eingebürgerter Gartenbewohner kennen, deren Wurzeln in alle Welt reichen. Spezialisten führen den botanischen Kunstpfad entlang und spazieren mit neugierigen Besucherinnen und Besuchern durch die Gärten Alpbachs.*

Lea Grabherr	Student, Institute of Botany, University of Innsbruck
Katharina Seidl	Curator; Head of Education, Schloss Ambras Innsbruck

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# SOCIAL AND PARTNER PROGRAMME

**Thursday, 24.08.2017**

**Partner**

12:00–13:00

ERWIN-SCHRÖDINGER-SAAL

EXHIBITION OPENING

**Opening of exhibitions – Tec-Xperience Room**  
*Eröffnung der Ausstellung im Tec-Xperience Room*

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21:30–23:30

HOTEL BÖGLERHOF

RECEPTION

**Evening Reception**  
*Abendempfang*

HOSTED BY FORSCHUNG AUSTRIA

**Friday, 25.08.2017**

**Social**

12:30–13:00

HAUPTSCHULE

RECEPTION

**Lunch Snacks for the Participants of the Breakout Sessions**  
*Imbiss für die TeilnehmerInnen der Breakout Sessions*

**Saturday, 26.08.2017**

**Social**

13:00–14:00

OTTO-MOLDEN-FOYER

RECEPTION

**Snack Reception**  
*Imbiss zum Abschluss der Veranstaltung*



## Further information

### Daily Programme and App

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This programme folder provides you with detailed information on your chosen event. The speakers appear in alphabetical order, unless they hold a keynote speech or give an introduction. Chairs are mentioned last. Speakers marked with (tbc) are not confirmed yet. Small changes can still occur after the editorial deadline.

Please find the updated daily programme at [www.alpbach.org/daily](http://www.alpbach.org/daily) as well as on the notice boards in the Congress Centre Alpbach and the main hotels. In cooperation with Superevent, the European Forum Alpbach offers a programme-app for smartphones (Android and iPhone), which allows you to receive all programme information and updates on your mobile phone.

### CVs of Speakers

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The compilation of the CVs of the speakers called “Who is Who” is available at the reception desk and for on-demand printing at the Xerox printing stations in the Congress Centre Alpbach, Hauptschule and Volksschule. All CVs are also listed on our website.

### List of Participants

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An up-to-date list of participants is available at the reception desk and for on-demand printing at the Xerox printing stations.

### Social Media #EFA17

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We invite you to use your social networks to share your impressions of the European Forum Alpbach. Please follow us on Twitter: @forumalpbach, #EFA17; Facebook: @European Forum Alpbach; Flickr: European Forum Alpbach; Instagram: /forumalpbach.

### Venues and Translation

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Most plenary sessions take place in the Congress Centre Alpbach. Most breakout sessions are held in the Alpbach secondary school (Hauptschule) and in different hotels. For further information regarding the venues, please observe the current programmes mentioned above.

Most plenary sessions taking place in the Elisabeth-Herz-Kremenak-Saal and Erwin-Schrödinger-Saal are translated simultaneously into English and German. Earphones and receivers can be obtained at the door – please hand them back after the plenary session. Our special thanks go to the interpreters who, out of the affinity to the Forum, kindly forego their usual fee and instead translate for a small daily compensation. Information about the language of each plenary session can be found online, through our app and in the printed conference programme.

### Access Badge

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The access badge received upon registration entitles you to participate in the events of the European Forum Alpbach 2017 during the indicated period. The badge has to be carried visibly and is not transferable. Please return the badge to the registration desk upon your departure so that we can ensure its environmentally-friendly re-use.

### FAQ

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For further information regarding your stay in Alpbach, please see [www.alpbach.org/faq](http://www.alpbach.org/faq)

### **Alpbach by Public Transport**

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From and to Alpbach there is a daily public bus line (bus line 4074), as well as a free shuttle service (from Wörgl via Alpbach to Inneralpbach). In addition, there is a free night shuttle from Böglhof bus stop to Inneralpbach-Reith-Kramsach-Brixlegg. The shuttle service is offered free of charge thanks to the support of our partner ÖBB-Postbus GmbH. Upon registration at your accommodation you will receive the “Alpbachtal Seenland Card” which enables you to use the public bus free of charge during the entire duration of the Forum.

The Alpbach cab company Taxi Moser offers special rates to the participants of the European Forum Alpbach. Please check our website (under the category “Alpbach by public transport”) for further information, timetables and contact details.

### **Childcare**

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We offer professional childcare for children from the age of 2 to 14 whose parents are registered participants in the European Forum Alpbach. This service is kindly supported by Familie & Beruf Management GmbH.

Venue: Kindergarten (in the Volksschule Alpbach)

Please find further details at [www.alpbach.org/childcare](http://www.alpbach.org/childcare).

On August 25, special additional activities for children and teenagers (aged between 7 and 17) are offered as part of the official programme of Ö1-Kinderuni and Junior Alpbach.

### **Green Meeting Alpbach**

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Green Meeting Alpbach is a project initiated by the European Forum Alpbach and the Congress Centre Alpbach in order to make our events more sustainable and ecologically responsible. As a result of this commitment, the European Forum Alpbach was the first conference organiser ever to be awarded the Austrian ecolabel for Green Meetings. Please help us to make our event more environment-friendly.

### **Internet Access**

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We offer free internet access at the internet café, which can be found on the ground floor of the primary school building (Volksschule). It is equipped with 20 computers (web access) and printers.

Opening hours: 9 a.m. – 7 p.m.

In addition, free WLAN is available in the Congress Centre Alpbach, the primary school (Volksschule) and the secondary school (Hauptschule).

**Contact / Kontakt**

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# EUROPEAN FORUM ALPBACH

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