

AUSSEN  
WIRTSCHAFT  
FORUM

**THE FUTURE OF BUILDING 2019**

Tuesday, 4.- 5.6.2019

**PROGRAM**

Location: Austrian Federal Economic Chamber | Advantage Austria  
Wirtschaftskammer Österreich | Außenwirtschaft Austria  
Wiedner Hauptstraße 63 | 1045 Wien

Last update: 26.5.2019 | Subject to changes

Language: English

In cooperation with:



Co-sponsored by



a shared initiative of the Austrian Federal Ministry for Digital, Business and Enterprise and the Austrian Federal Economic Chamber



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### TUESDAY, 4.6.2019

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**08.00 – 08.30**      **REGISTRATION**

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**08.30 – 08.50**      **WELCOME REMARKS**

ZONE C0 (JULIUS RAAB SAAL)

- Ulrike Rabmer-Koller | Vice-President, Austrian Federal Economic Chamber
  - Patrick Sagmeister | Deputy Director General, Advantage Austria
  - Kornelia Lienhart | Enterprise Europe Network Austria
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### EXPLORE A FUTURE WORLD OF DIFFERENCE

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**08.50 – 09.10**      **FUTURE AND GREEN CITIES: ARCHITECTURE AS URBAN ECOSYSTEM**

- Thomas Schröpfer, Professor and Founding Associate Head of Pillar / Architecture and Sustainable Design | Singapore University of Technology and Design <https://asd.sutd.edu.sg/people/faculty/thomas-schroepfer>

More and more cities are looking to become smarter, greener, safer and more connected. Singapore is a spearhead of smart city solution provider.

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### INTERNATIONAL MARKETS - DEVELOPMENTS AND PERSPECTIVES IN ASIA

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**09.10 – 09.40**      **PANELDISCUSSION ASIAN MARKETS – DIALOGUE WITH ASIAN AND AUSTRIAN EXPERTS AND TESTIMONIALS**

- Japan wood revolution – the rise of wooden skyscrapers | Japan | Nikken Housing System, Atsushi Shibuya
  - Hong Kong's Smart City Dialogue with Austria – Solutions for high-density, high-rise cities sought! | Hong Kong | KF Tsang, City University of Hong Kong
  - Wood construction trends in Republic of Korea | Seoul | National Institute of Forest Service, Shim Kug-Bo
  - Zero, passive and plus energy buildings | China | NEUBAU best energy, Dawid Michulec
  - Wood construction excellence at Mactan Cebu International Airport | Philippines | Rubner Holzbau, Anton Wanas
  - Transferability of Austrian building concepts & urban masterplans to Asian cities | Asian Region | BUSarchitektur, Laura P. Spinadel
  - Co-creation urban future. Participative living concepts in cities | International aspects | 1030 Innovation Consulting, Verena Kuen
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09.40 – 10.25

## AUSTRIAN FIELDS OF INNOVATION

### SPEED PRESENTATIONS

- Intelligent and connected buildings | Siemens Building Technologies, Oliver Juli
- Hightech heating and cooling, zero carbon target using innovative Austrian solutions | ENERPLAN GmbH, Stefan Wehinger
- Building Information Modelling - an entire new era in the building industry | BIMspot, Christoph Degendorfer
- Digital 4.0 underground and tunneling projects | eguana GmbH, Philipp Maroschek
- Foundation Engineering – smart approaches to urban challenges | Porr AG, Bernhard Hinterplattner
- Timber hybrid makes the break through | Rhomberg Cree, Volker Weissenberger
- Automation on construction sites with the masonry robot | Wienerberger AG, Alexander Lehmden
- Latest developments in concrete 3D printing | BAUMIT, Eduard Artner
- Limitless planning freedom and architectural flexibility for facades | Brucha GmbH, Johannes Mirwald

## INTERNATIONAL MARKETS - DEVELOPMENTS AND PERSPECTIVES IN AFRICA

10.25 – 10.45

### “BY 2050 70% OF THE GLOBAL POPULATION WILL LIVE IN URBAN AREAS - APPROACHES ON MODULAR CONSTRUCTION AND PREFABRICATION”

- Werner H. Bittner, CEO Umdasch Group Ventures GmbH  
<https://www.umdaschgroup-ventures.com/umdachgroup-ventures/en/magazine/Launch-of-Neulandt3P-Portable-Precast-Factory>

Neulandt 3P is a mobile field factory for the production of precast segments for affordable housing. The factory and its integrated infrastructure (e.g. crane) are transported to the site. After the short assembly time of about four weeks, the production is ready to get started.

10.45 – 11.15

### EXPLORE THE AFRICAN MARKETS – DIALOGUE WITH AFRICAN COMPANIES AND EXPERTS

- Create superior architectural designs and high technical performance in buildings | Nigeria | Nigerian Institute of Architects, Fitzgerald Umah
- Successfully bridge two project cultures, Europe and Africa | Ghana | orthner orthner & associates, Rosemary Orthner
- Moving to the next level towards hightech and smart buildings | Nigeria | STUDIO ELEMENTALS architecture and design, Stefanie Theuretzbacher
- Urban Development & Architectural Quality | Morocco | Urban Planning Departement at Urban Agency of Rabat Salé, Zakaria El Kaidi
- Explore the African construction market and its potential | Subsahara Region | Dynaxity Consulting GmbH, Ekkehard Redlhammer
- Green biospheres on and off-side buildings are a sustainable and effective measure against urban overheating in cities | Subsahara Region | RATAPLAN – Architektur ZT GmbH, Susanne Höhndorf

11.15 – 12.00

### (OPTIONAL) COFFEE BREAK

ZONE C1 (VARIOUS COFFEE CORNERS)

Sponsored by Swietelsky Baugesellschaft m.b.H.

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**11.30 – 13.00**      **EXHIBITION / TRADE SHOW / B2B MEETINGS**

ZONE C1

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**13.00 – 14.00**

**LUNCH**

ZONE C0 (NEXT TO JULIUS RAAB SAAL)

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**14.00 – 15.15**

**EXHIBITION / TRADE SHOW / B2B MEETINGS**

ZONE C1

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**14.00 – 15.15**

**WORKSHOP “PREFABRICATION OF COMPONENTS, OFF-SIDE CONSTRUCTION AND ON-SIDE MATERIAL RECYCLING”**

ZONE C0 (JULIUS RAAB SAAL)

Intro

- Pioneering Re-Use and recycling technologies on the construction side | Heinrich Pernkopf, SBM Mineral Processing GmbH

Speed presentations based on specific project use-cases

- Bitumen scanning and sustainable technologies for asphalt recycling | Hinrich Grothe, Technical University Vienna
- On-side 3D printing technology for robotic pavement construction | Herwig Hengl, PrintStones GmbH
- How to successfully implement prefabrication in the construction industry | Heidemarie Kunze, Prilhofer Consulting GmbH & Co. KG
- OpenBIM 5D end-to-end solutions. Digitalisation of industrial prefabrication | Robert Neubauer, RIB SAA Software Engineering GmbH
- Reaching new heights in serial massive wood construction | Johanna Kairi, Stora Enso Wood Products GmbH
- Prefabricated frameless bonded glass facades meet the individual demand of cutting edge buildings | Hanspeter Petschenig | Petschenig glastec GmbH

Facilitator: Sonja Starnberger, Energy Institute for Business

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14.00 – 15.15

**WORKSHOP “GREEN AND SMART URBAN LIVING CONCEPTS”**

ZONE C1 (ROOM 8)

Intro

- Green and blue infrastructure for urban systems | Vera Enzi, Grünstattgrau Innovation Laboratory for greening cities

Speed presentations based on specific project use-cases

- Dynamics and potentials of inner-city micro quarters – a smart focus on energy and quality of life in microquarters | Jens Leibold, IBO
- GREENPASS – how to plan green infrastructure and nature-based solutions for efficiency and effectiveness | Christoph Stenzel, GREENPASS® GmbH
- Stop sealing !!! hard pavements with complete water infiltration? Gerold Steinbauer, Steinbauer Development GmbH
- 50 Green houses | Victoria Hala, tatwort
- Austria´s first vertical farm | Gert Zechner, vertical farm institute
- Latest innovation for aeration and irrigation systems on vertical and horizontal greening on buildings | Dorothea Sulzbacher, Lite-Soil GmbH
- The architecture for the city and influence on life and creative work environment | Dean of Asia University Tokyo, Takeo Matsuoka

Facilitator: Susanne Formanek | Grünstattgrau Innovation Laboratory for greening cities

15.15 – 16.30

**EXHIBITION / TRADE SHOW / B2B MEETINGS**

ZONE C1

15.15 – 16.30

**WORKSHOP “ADVANCED AND CUTTING-EDGE MATERIALS”**

ZONE C0 (JULIUS RAAB SAAL)

Intro

- Coping with the challenge of hybrid material building structures with wood, concrete, glass, clay, straw, ... | Karin Stieldorf, Technical University Vienna

Speed presentations based on specific project use-cases

- The Aerobrick – a high-performance, aerogel-filled insulating brick | Jannis Wernery, Laboratory for Building Energy Materials and Components, Empa, Switzerland
- Foam concrete, production and logistics | Herbert Papousek, MAI International GmbH
- GEOLYTH mineral insulation. Today. Tomorrow | Hannes Stolzlechner & Karl Enzenhofer, GEOLYTH Mineral Technologie GmbH
- Thermal Blowin-insulation based on straw | Marcel Burgstaller, Iso-Stroh
- Highly efficient on demand curing of epoxy resins | Daniel Grunenberg, Curratec (TU Wien)
- Advanced building solutions for healthy living: automatic humidity monitoring & buffering | Christian Vondrus, CV-Consulting

Facilitator: Sonja Starnberger | Energy Institute for Business



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15.15 – 16.30

**WORKSHOP “INTELLIGENT & SUSTAINABLE BUILDINGS AND CITY QUATERS”**

ZONE C1 (ROOM 8)

Intro

- Where does urban planning head in tomorrow’s world | Walter Hammertinger, value one development GmbH

Speed presentations based on specific project use-cases

- A realized Plus Energy Building: Design to Monitoring | Georg W. Reinberg, Architekturbüro Reinberg ZT GmbH
- Circular buildings -implementing technical and biological cycles | Francesco Menconi, alchemia-nova GmbH
- Energy-reproduction out of sewage | Klaus Pichler, Rabmer GreenTech GmbH
- Smart solar lighting for sustainable landscape architecture | Dieter Hornbachner, HEI Technology International GmbH
- Building-integrated Photovoltaic | Dieter Moor, ertex solartechnik GmbH
- Energy efficiency through high-quality heating, ventilation, and air conditioning solutions | Amir Ibrahimagic, Konvekta GmbH
- Fully integrated smart home solution | m-smartsolutions gmbh, Marius Marek
- Challenges of Asian mega cities to be sustainable | Economist and professor of Asia University Tokyo, Yasuhiro Goto

Facilitator: Peter Engert | ÖGNI Austrian Sustainable Building Council

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15.30 – 16.30

**(OPTIONAL) COFFEE BREAK**

ZONE C1 (VARIOUS COFFEE CORNERS)

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16.30 – 17.45

**EXHIBITION / TRADE SHOW / B2B MEETINGS**

ZONE C1

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16.30 – 17.45

**WORKSHOP “WOOD CONSTRUCTION AND TIMBER - NEW DEVELOPMENTS AND HYBRIDE CONSTRUCTION TECHNOLOGIES”**

ZONE C0 (JULIUS RAAB SAAL)

Intro

- Using machine learning to deal with the complexity of wood | Mark Schubert, Empa – Swiss Federal Laboratories for Materials Science and Technology, Group ‘WoodTec’

Speed presentations based on specific project use-cases

- Challenges for the automatization of the process chain in building construction | Benjamin Kromoser, University of Natural Resources and Life Sciences Vienna
- Hybrid-wood construction and timber projects in Austria | Simon Speigner, sps=architekten zt gmbh
- The Macallan Distillery - a journey from design to installation of one of the most complex timber roofs on the planet | Johannes Rebhahn, Wiehag GmbH
- Surface design of wood | Martin Breitenberger, Mareiner Holz GmbH
- CLT-cross laminated and mass timber construction | Bertrand Gosset, KLH Massivholz GmbH
- As easy as buying a car – digital models and CLT based wood cubes | Andrea Binggeli, WoodCube GmbH

Facilitator: Stephan Hölzl | Business Upper Austria

16.30 – 17.45

**WORKSHOP “THE DIGITAL TRANSFORMATION OF THE BUILDING INDUSTRY”**

ZONE C1 (ROOM 8)

Intro

- „Digital Building Solutions: The Austrian approach for the digital transformation in the building industry“ | Hildegard Utermöhlen, DELTA und Kai-Uwe Reisner, M.O.O.CON

Speed presentations based on specific project use-cases

- Digitalisation in building operations | Steffen Robbi, AIT Austrian Institute of Technology
- The dimension of Building Information Modelling and its impact on the future of facility management | Reinhard Poglitsch, IFMA Austria Chapter
- From 2D plans to 3D BIM models in an instant | René Subhieh, XEOMETRIC / ELITECAD
- Virtual and augmented reality: the new dimension of architectural visualization | Marcel Nürnberg, SQUAREBYTES GmbH
- How the digital twin can improve customer experience and internal processes | Jarmo Ollila, GBuilder
- Technologies in Building Industry as Smartcity | Hisakazu Okamura, VP for International affairs, Smartcity, Asia University Tokyo

Facilitator: IG Lebenszyklus | Hildegard Utermöhlen, Delta & Kai-Uwe Reisner, moo-con

17:45 – 18:00

**WALK TO DIPLOMATIC ACADEMY VIENNA**

Diplomatic Academy (Favoritenstraße 15A, 1040 Vienna)

18.00 – 22.00

**EVENING EVENT & DINNER (DIPLOMATIC ACADEMY VIENNA)**

Award Ceremony for international Austrian cutting edge sustainable buildings in abroad

- Austrian Federal Ministry for Sustainability and Tourism, N.N.
- Austrian Federal Ministry for Transport, Innovation and Technology, N.N.
- Austrian Federal Economic Chamber | Advantage Austria / AUSSENWIRTSCHAFT Vice-President Ulrike Rabmer-Koller and Deputy Director General Patrick Sagmeister

This Award is a shared initiative of the Austrian Federal Ministry of Sustainability and Tourism, the Austrian Federal Ministry for Transport, Innovation and Technology and the Austrian Federal Economic Chamber, Advantage Austria

**WEDNESDAY, 5.6.2019**

09.00 – 17.30

**PROJECT VISITS**

- Urban revitalisation of former industrial areas (full day)
- Smart City Aspern - Vienna's outstanding smart city project(full day)
- Inner city WU campus - architectural highlight with focus on sustainability (half day)
- Meet the urban planning and smart-city department of the Vienna Municipality (half day)
- Smart City Aspern - energyefficient buildings and technology at its best (half day)
- Biotope City - traditional buildings with clay and eco & healthy building" (full-day)
- Buildings in passive house standard or higher (half-day)

**WKO LOCATION PLAN, AUSTRIAN FEDERAL ECONOMIC CHAMBER**

