# Program Day 1 | Wednesday | July 12, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1: Industry I</th>
<th>Session 2: Industry II</th>
<th>Session 3: Medical</th>
<th>Session 4: Technology I</th>
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</thead>
<tbody>
<tr>
<td>09:00-09:05</td>
<td>Opening of the Wireless Power Congress</td>
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</tbody>
</table>
| 09:05-09:30   | **Keynote: Challenges in Mass-market Application of Wireless Power Transfer**  
Menno Treffers, The Wireless Power Consortium                                    |                                                                                                                                                                      |                                                                                                                  |                                                                                                                  |
| 09:30-10:00   | No Limits – Driving the Evolution of Wireless Charging for Laptops, Power Tools and the IoT  
Vaclav Halbich, NXP Semiconductors                                              | How to achieve the highest Energy Density in small Form Factor Battery  
Matthias Dorsch, VARTA Microbattery                                            | Adaptive Very High Frequency Wireless Power Transfer Systems for Biomedical Brain Implants  
Sebastian Stöcklin, Albert-Ludwigs-Universität Freiburg                        | Maximum Efficiency in Non-Radiative Wireless Power Transfer  
Dr. Konstantin Kanelis, European Patent Office                                 |
| 10:00-10:10   | Wireless Power – A View From the Other Side of the Chasm  
Laurence McGarry, Integrated Device Technology                                  |                                                                                                                                                                      | Efficiency Enhancement of High Q Energy Harvesting Networks  
Christian Merz, Technische Hochschule Deggendorf                               | Dr. Konstantin Kanelis, European Patent Office                                                                 |
| 10:30-11:00   | Business Break                                                                                                                          |                                                                                                                                                                      | Comparison on Powering Passive RFID Transponder by Varying Datarates, Modulation Schemes and Modulation Indexes  
Peter Kuhn, Fraunhofer IMS                                                     |                                                                                                                  |
| 11:00-11:30   | Topology Study for an Inductive Power Transmitter for Cordless Kitchen Appliances  
Mahesh Itraj, Philips Consumer Lifestyle                                         | How to achieve the highest Energy Density in small Form Factor Battery  
Matthias Dorsch, VARTA Microbattery                                            | Wireless Power for Medical Applications with Loose Coupling  
Markus Rehm, Dr. Thomas Wille, IBR Ingenieurbüro Rehm                          |                                                                                                                  |
| 11:30-12:00   | High Power Transfer for Wireless Power Industrial Applications                                                                        |                                                                                                                                                                      | Converter and System Topologies and implementation to achieve high power (150W to 2.5kW) wireless power transfer  
Dr. Paul Mitcheson, Imperial College London                                      |                                                                                                                  |
| 12:00-12:30   | Wireless Power Solutions in the 20W and 40W Arena                                                                                       |                                                                                                                                                                      |                                                                                                                  |                                                                                                                  |
| 12:30-13:30   | Business Lunch                                                                                                                          |                                                                                                                                                                      |                                                                                                                  |                                                                                                                  |
| 13:30-14:00   | Selecting the Right Inductor for Wireless Power Transfer  
Cem Som, Würth Elektronik eiSos                                                 | Selecting the Right Inductor for Wireless Power Transfer  
Cem Som, Würth Elektronik eiSos                                                 | Adaptive Very High Frequency Wireless Power Transfer Systems for Biomedical Brain Implants  
Sebastian Stöcklin, Albert-Ludwigs-Universität Freiburg                        | Maximum Efficiency in Non-Radiative Wireless Power Transfer  
Dr. Konstantin Kanelis, European Patent Office                                 |
| 14:00-14:30   | How to achieve the highest Energy Density in small Form Factor Battery  
Matthias Dorsch, VARTA Microbattery                                            | How to achieve the highest Energy Density in small Form Factor Battery  
Matthias Dorsch, VARTA Microbattery                                            | How to achieve the highest Energy Density in small Form Factor Battery  
Matthias Dorsch, VARTA Microbattery                                            | Efficiency Enhancement of High Q Energy Harvesting Networks  
Christian Merz, Technische Hochschule Deggendorf                               |
| 14:30-15:00   | Adaptive Very High Frequency Wireless Power Transfer Systems for Biomedical Brain Implants  
Sebastian Stöcklin, Albert-Ludwigs-Universität Freiburg                        | How to achieve the highest Energy Density in small Form Factor Battery  
Matthias Dorsch, VARTA Microbattery                                            | How to achieve the highest Energy Density in small Form Factor Battery  
Matthias Dorsch, VARTA Microbattery                                            | Efficiency Enhancement of High Q Energy Harvesting Networks  
Christian Merz, Technische Hochschule Deggendorf                               |
| 15:00-15:30   | Wireless Power for Medical Applications with Loose Coupling  
Markus Rehm, Dr. Thomas Wille, IBR Ingenieurbüro Rehm                          | Wireless Power for Medical Applications with Loose Coupling  
Markus Rehm, Dr. Thomas Wille, IBR Ingenieurbüro Rehm                          | Wireless Power for Medical Applications with Loose Coupling  
Markus Rehm, Dr. Thomas Wille, IBR Ingenieurbüro Rehm                          | Efficiency Enhancement of High Q Energy Harvesting Networks  
Christian Merz, Technische Hochschule Deggendorf                               |
| 15:30-16:00   | Business Break                                                                                                                          |                                                                                                                                                                      |                                                                                                                  |                                                                                                                  |
| 16:00-17:30   | **Tutorial**  
How to Integrate Wireless Power in my Device Using the Würth Elektronik Wireless Power Design Kit  
Cem Som, Würth Elektronik eiSos, Winfried Bilgic, ROHM Semiconductor, Jörg Hantschel, Würth Elektronik eiSos  
The attendees will learn about the features of the design kit and how design and placement of the receiver coil impacts the system performance. Each attendee of this workshop will receive a Wireless Power Design Kit. | In-Booth Presentations  
Wireless power transfer for smart home appliances  
Dr. Peter Hao, Shanghai Chushan Technology  
A dedicated session on the first day of the Wireless Power Congress is reserved for presentations of products and solutions by exhibitors, directly at their booth. |                                                                                                                  |                                                                                                                  |
| 17:30-19:00   | **Evening Mixer**  
Network in a relaxed, friendly atmosphere in our exhibition area. These events are a great way to meet other attendees, exhibitors and speakers and discuss new developments and businesses.  
The mixer is open and free to all attendees, exhibitors and speakers. Appetizers will be provided. |                                                                                                                                                                      |                                                                                                                  |                                                                                                                  |
### Program Day 2 | Thursday | July 13, 2017

**09:00-09:30**  
**Keynote: Wireless Power Transfer – What Will Be the Future?**  
Jörg Hantschel, Würth Elektronik eiSos

<table>
<thead>
<tr>
<th>09:30-10:00</th>
<th>Wirelessly Charged Autonomous Vehicles Will Mobilize the Smart City</th>
<th>Peter Wambhsangan, WiTricity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00-10:30</td>
<td>The Future of Urban Mobility is Autonomous, Connected, Electric and Wireless</td>
<td>Thomas Nindl, Qualcomm Halo</td>
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<tr>
<td>10:30-11:00</td>
<td>Business Break</td>
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<tr>
<td>11:00-11:30</td>
<td>Analysis and Design of Inductive Power Transfer Systems for Automotive Battery Charging Applications</td>
<td>Dr. Wahab Ali Shah, Huazhong University of Science &amp; Technology</td>
</tr>
<tr>
<td>11:30-12:00</td>
<td>A State of the Art Review on Wireless Power Transfer a Step towards Sustainable Mobility</td>
<td>Zeeshan Ahmad Khan, Technical University Munich</td>
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<tr>
<td>12:00-12:30</td>
<td>Optimized EMF Design of a High Power Air Gap Transformer with large secondary Displacement</td>
<td>Robert Czainski, Bombardier PRIMOVE</td>
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<tr>
<td>12:30-13:30</td>
<td>Business Lunch</td>
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**Session 6: Technology**

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<tr>
<th>13:30-14:00</th>
<th>Broadband Electromagnetic Material Characterization for the Design of a Wireless Power and Data Link</th>
<th>Christian Reinhold, ifak e.V. Magdeburg / Phoenix Contact Stiftung</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00-14:30</td>
<td>Power Measurements in a Wireless Power Transfer (WPT) System</td>
<td>Laurens Swaans, nok9</td>
</tr>
<tr>
<td>14:30-15:00</td>
<td>Development of a Wireless Power Transmission for a Revolving, Reversing Toothed Belt</td>
<td>Stefan Keil, Fraunhofer IWU</td>
</tr>
<tr>
<td>15:00-15:30</td>
<td>Design and Evaluation of a Resonant DC-DC Converter for Wireless Battery Charging Applications</td>
<td>Nilton Spagnol Trento, Federal University of Technology of Parana</td>
</tr>
<tr>
<td>15:30-16:00</td>
<td>Business Break</td>
<td></td>
</tr>
<tr>
<td>16:00-16:30</td>
<td>Magnetizable concretes to Boost up Wireless Power Transmission</td>
<td>Mauricio Esguerra, MAGMENT</td>
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**Session 7: Compliance**

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<thead>
<tr>
<th>16:30-17:00</th>
<th>Is there any Risk Related Inductive Charging with High Power and Frequencies above 30 KHz up to 10 MHz?</th>
<th>Werner Grommes, Institute for Research and Testing of the German Social Accident Insurance (DGUV/IFA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>17:00-17:30</td>
<td>ISO - Accuracy and Traceability for the Development of Wireless Power Transfer (WPT) Systems</td>
<td>Lukas Leander, nok9</td>
</tr>
<tr>
<td>17:30-18:00</td>
<td>Approval of WPT-Systems according to EMV-Directive and new RED-Directive</td>
<td>N.N.</td>
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</table>
Exhibitors & Sponsors (June 20, 2017):

- Wireless Power Innovator
- IDT
- Digi-Key
- Omicron Lab
- SII
- VARTA
- Seiko Instruments GmbH
- Würth Elektronik

Powered by:

- Elektronik

Supported by:

- Wireless Power Consortium
Registration | Fill in, send, take part.

Please note: In order to be registered you have to fill in all required fields marked with an asterisk (*). (A confirmation email will be sent to you)

I want to register for:
- [ ] Day 1 (July 12)
  - [ ] Session 1: Industry I
  - [ ] Session 2: Industry II
  - [ ] Session 3: Medical
  - [ ] Session 4: Technology
  - [ ] Tutorial
- [ ] Day 2 (July 13)
  - [ ] Session 5: Automotive
  - [ ] Session 6: Technology
  - [ ] Session 7: Compliance

Want to state a different billing-address?
Type it easily by registering online: www.wireless-power-congress.com/registration

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<th>Congress Fees</th>
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<tbody>
<tr>
<td>One-Day (July 12 or 13)</td>
<td>455,- EUR</td>
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<tr>
<td>Full Conference (July 12 and 13)</td>
<td>755,- EUR</td>
</tr>
<tr>
<td>Day 1 + Tutorial (July 12)</td>
<td>604,- EUR</td>
</tr>
<tr>
<td>Full Conference + Tutorial (July 12 and 13)</td>
<td>904,- EUR</td>
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Terms and Conditions: For further details please find the terms and conditions at www.wireless-power-congress.com.

- The attendance fee includes participation on the booked conference days, proceedings, lunch and refreshments.
- You will receive a confirmation of your conference registration along with your invoice.
- Cancellations received in writing until June 22, 2017 will be subject to a service charge of EUR 50,- for one-day registrations and EUR 100,- for two-day registrations. For all cancellations received from June 23, 2017 the full conference fee remains payable. Substitutions within the same company are welcome at any time.
- The organizers reserve the right to make changes in the program and/or speakers or to cancel sessions, if conditions beyond its control prevail. Please check www.wireless-power-congress.com for the latest conference information.
- Students: Students are granted a 50 % reduction, student ID required. Please submit by fax to +49 (0) 89 / 255 56 - 0155 or by email to JHeger@weka-fachmedien.de.
- For registrations of five persons and more from one company, please contact our conference department for special rates.
- For further details please find the detailed terms and conditions at www.wireless-power-congress.com.
- All fees excluded VAT.

Venue:
Konferenzzentrum München, Lazarettstrasse 33, 80636 München, Germany

Contact:
Juliane Heger | Coordinator Conference Attendees
Phone: +49 (0) 89 / 255 56 - 1155
Email: JHeger@weka-fachmedien.de

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