## Program

<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Activity</th>
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<tr>
<td>09:15 – 09:30</td>
<td>Workshop Opening</td>
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| 09:30 – 10:30 | **KEYNOTE 1:** "FPGA design using CλaSH"  
Jan Kuper, QbayLogic, Enschede, The Netherlands |
| 10:30 – 11:15  | Coffee Break with Poster Session  
"Using Linux FIFOs to allow Flexible Hardware/Software Communications on Reconfigurable Systems-on-Chip"  
Ian Clough and Neil Bergmann  
"Improved Parallelization of Legacy Embedded Software on Soft-Core MPSoCs through Automatic Loop Transformations"  
Kris Heid, Jakob Wenzel and Christian Hochberger  
"Exact Mapping of Rewritten Linear Functions to Configurable Logic"  
Jonathan Greene |
| 11:15 – 12:45  | **Session 1 "High-Level Tools and Methodologies I"**  
"ZUCL: A ZYNQ UltraScale+ Framework for OpenCL HLS Applications"  
Khoa Pham, Anuj Vaishnav, Malte Vesper and Dirk Koch  
"Unfolding and Folding: a New Approach for Code Restructuring targeting HLS or FPGAs"  
Afonso Ferreira and João Cardoso  
"HatScheT: A Contribution to Agile HLS"  
Patrick Sittel, Julian Oppermann, Martin Kumm, Andreas Koch and Peter Zipf |
| 13:00 – 14:00  | Lunch Break                                                                     |
| 14:00 – 15:00  | **KEYNOTE 2:** "Making FPGAs accessible to developers and customers"  
Felix Winterstein, Xelera Technologies GmbH |
| 15:00 – 15:30  | **Session 2 "High-Level Tools and Methodologies II"**  
"LeFlow: Enabling Flexible FPGA High-Level Synthesis of Tensorflow Deep Neural Networks"  
Daniel Holanda Noronha, Bahar Salehpour and Steve Wilton |
| 15:30 – 16:00  | Coffee Break                                                                    |
| 16:00 – 17:00  | **Session 3 "Applications and Mapping"**  
"A Case Study in Using OpenCL on FPGAs: Creating an Open-Source Accelerator of the AutoDock Molecular Docking Software"  
Leonardo Solis Vasquez and Andreas Koch  
"A Journey into DSL Design using Generative Programming: FPGA Mapping of Image Border Handling through Refinement"  
Akif Oezkan, Arsène Pérard-Gayot, Richard Membarth, Philipp Slusallek, Jürgen Teich and Frank Hannig |
| 17:00 – 17:15  | Workshop Closing                                                                |

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