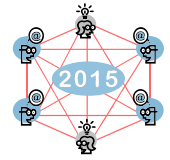


Welcome to the 2015 OMNeT++ Community Summit

September 3/4

IBM Research – Zurich, Switzerland

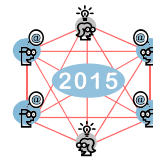
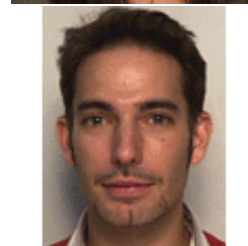
About the Summit



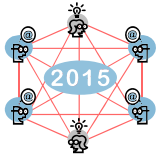
- Main objectives
 - Facilitate interaction and sharing of experiences, models, and results among the OMNeT++ user and developer community
 - Facilitate interaction between OMNeT++ user community and the development team
- Second edition of the summit; first one took place in Hamburg, 2014
- Six prior editions of the Int'l OMNeT++ Workshop (in conjunction with SIMUtools)
- First two-day event!
- Densely-packed program including keynotes, invited talks, panels, tutorials, regular presentations, demonstrations, and hopefully a lot of interaction!

Summit Organizers (1)

- Founding Chair
 - Andras Varga (Simulcraft Inc.)
- Community Summit Organizers
 - Anna Förster (University of Bremen, Germany)
 - Cyriel Minkenberg (IBM Research - Zurich, Switzerland)
- Technical Program Organizers
 - German Rodriguez Herrera (IBM Research - Zurich, Switzerland)
 - Michael Kirsche (BTU Cottbus–Senftenberg, Germany)
- Publicity Organizer
 - Kyeong Soo (Joseph) Kim (Xi'an Jiaotong–Liverpool University, China)
- Panel Organizer
 - Laura Marie Feeney (SICS, Sweden)



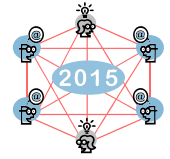
Summit Organizers (2)



▪ Technical Program Committee

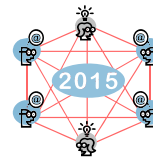
- James Brusey (University of Coventry, UK)
- David Eckhoff (University of Erlangen-Nürnberg, Germany)
- Laura Marie Feeney (SICS, Schweden)
- Michael Frey (HU Berlin, Germany)
- Yutaka Matsubara (Nagoya University, Japan)
- Alfonso Ariza Quintana (University of Malaga, Spain)
- Christoph Sommer (University of Paderborn, Germany)
- Mirko Stoffers (RWTH Aachen University, Germany)
- Antonio Virdis (University of Pisa, Italy)
- Matthias Wählisch (FU Berlin, Germany)

Logistics



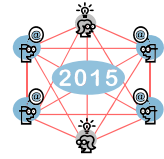
- Registration at the **reception** (main entrance)
- Event takes place in **C201/C202** (this room)
- Coffee breaks are served in the corridor in front of the conference room
- Lunch (Thu/Fri) is served in the **Cafeteria**
- Dinner: details on next slide
- Wifi
 - Username / password are included with your badge

Community Dinner

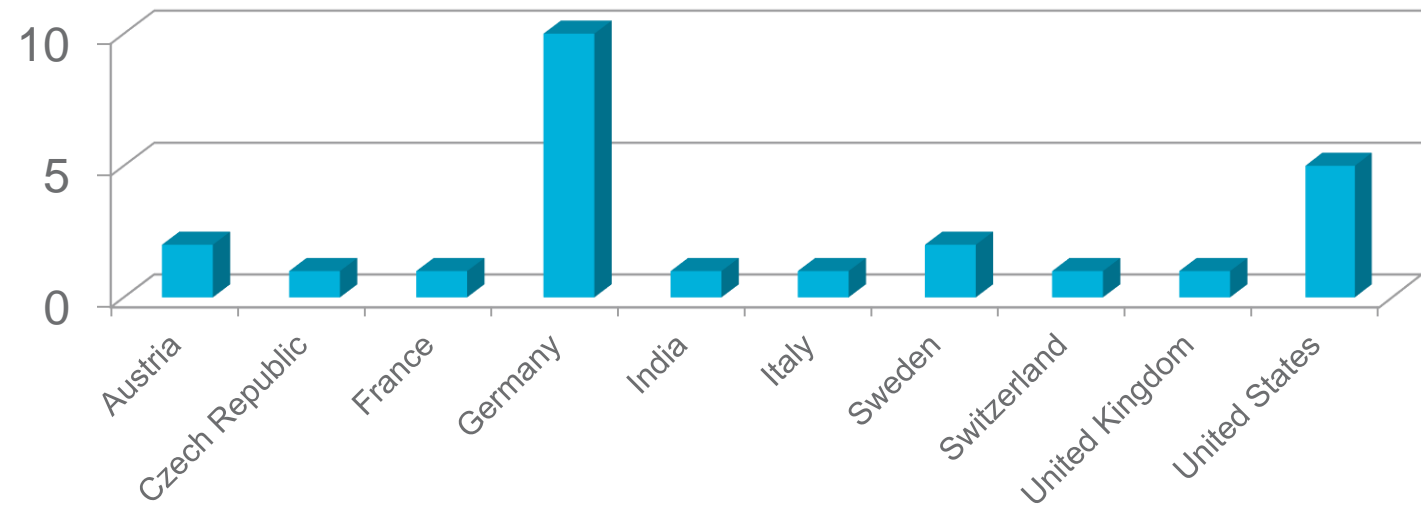


- Restaurant Mooseegg
- Walking distance from the lab (next to Nidelbad guesthouse)
- Three menu choices
- Self-paid

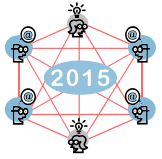
Contribution Statistics



- 27 submissions from over 10 (!) countries
 - 22 research submissions, from industry and university alike
 - 2 Tutorials
 - 1 Panel + 2 invited abstracts

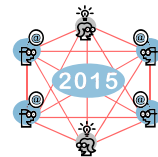


Review Process



- Technical program committee was (re-)introduced for 2nd Community Summit
- TPC with 10 members + organizers reviewed submissions to evaluate:
 - Novelty
 - Community value / interest
 - Technical content
- At least three reviews per submission
 - Valuable feedback for the authors for future publications
 - Conflicts and improvement possibilities addressed by reviewers
 - Presentation type advised

Program (1)

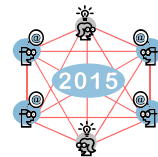


- TPC selected:
 - 2 tutorials
 - 7 long presentations
 - 7 short presentations
 - 3 posters / demonstrations

- Proceedings are available at the [Summit website](#)
 1. Single PDF with all contributions collected
 2. Individual contributions linked [in the program](#)

- All presented contributions are published and indexed on [arXiv.org](#)

Program (2)



- Keynotes:
 - Christopher D. Carothers
 - “Enabling Scalable Parallel Processing of Venus/OMNeT++ Network Models on the IBM Blue Gene/Q Supercomputer”
 - Peter Altevogt
 - “Cloud Performance Simulations”
- Discussion Panel on Energy Consumption Modeling
 - Thanks to Laura Marie Feeney!
- Invited presentations and tutorials by the OMNeT++ / OMNEST developers
 - Thanks to Andras Vargas, Rudolf Hornig and Levente Meszaros



Program (3)



- **NOTE:** We have a very full program:

PLEASE STICK TO YOUR ALLOCATED TIME SLOTS

- Leave time for questions (recall the “interaction” objective)
- For presenters:
 - Session chairs are indicated on the program:
Please contact them in the break before your session
 - If possible, upload your presentation to the presentation laptop
 - Otherwise, please **TEST** your setup in the coffee break beforehand!

Thursday, Sep. 3rd AM

Session	Time	Speaker / Title	Location
Opening	08:30 - 09:00	Registration	Reception
	09:00 - 09:10	Welcome Note: <i>Cyriel Minkenbergh, Michael Kirsche</i>	C201/C202
Keynote #1	09:15 - 10:00	<i>Christopher D. Carothers</i> “Enabling Scalable Parallel Processing of Venus/OMNeT++ Network Models on the IBM Blue Gene/Q Supercomputer”	C201/C202
Break	10:00 - 10:20		Corridor
Beyond OMNeT++ Session Chair: Michael Kirsche	10:20 - 10:45	<i>Georg Möstl and Andreas Springer</i> “MiXiM, PAWiS, and STEAM-Sim Integration – Combining Channel Models, Energy Awareness, and Real-life Application Code”	C201/C202
	10:45 - 11:10	<i>Jens Dede, Koojana Kuladinithi et al.</i> “OMNeT++ and Mosaik: Enabling Simulation of Smart Grid Communications”	
	11:10 - 11:35	<i>Asanga Udugama, Koojana Kuladinithi, Anna Förster and Carmelita Görg</i> “Federating OMNeT++ Simulations with Testbed Environments”	
	11:35 - 12:00	<i>Ryan D. L. Engle, Douglas D. Hodson et al.</i> “Modeling Quantum Optical Components, Pulses and Fiber Channels Using OMNeT++”	
Lunch	12:00 - 13:00		Cafeteria



Thursday, Sep. 3rd PM (1)

Session	Time	Speaker / Title	Location
INET Enhancements Session Chair: Laura Marie Feeney	13:00 - 13:25	<i>Irene Rüngeler and Michael Tüxen</i> “Integration of the Packetdrill Testing Tool in INET”	C201/C202
	13:25 - 13:40	<i>Michael Kirsche and Roman Kremmer</i> “uIP Support for the Network Simulation Cradle”	
	13:40 - 13:55	<i>Atheer Al-Rubaye and Jochen Seitz</i> “Dynamic Index NAT as a Mobility Solution in OMNeT++“	
	13:55 - 14:10	<i>Artur Austregesilo Scussel, Georg Panholzer et al.</i> “Improvements in OMNeT++/INET Real-Time Scheduler for Emulation Mode”	
Panel Panel Chair: Anna Förster	14:20 - 15:00	<i>Laura Marie Feeney</i> “Simulating Power Consumption in OMNeT++”	C201/C202
		<i>Torsten Braun, Philipp Hurni, Vitor Bernardo and Marilia Curado</i> “Issues with State-based Energy Consumption Modelling”	
		<i>Mohammadhassan Safavi and Saeed Bastani</i> “A Simulation Package for Energy Consumption of Content Delivery Networks (CDNs)”	



Thursday, Sep. 3rd PM (2)

Session	Time	Speaker / Title	Location
Break + Demos and Posters	15:00 - 16:15	<i>Jean Lebreton and Nour Murad</i> "Implementation of a Wake-up Radio Cross-Layer Protocol in OMNeT++ / MiXiM"	C201/C202
		<i>Sebastian Böhm and Michael Kirsche</i> "Looking into Hardware-in-the-Loop Coupling of OMNeT++ & RoSeNet"	
		<i>Qian Liu, Robert D. Russell et al.</i> "Implementation of PFC and RCM for RoCEv2 Simulation in OMNeT++"	
Future of OMNeT++ Session Chair: German Herrera	16:15 - 17:30	<i>Raphael Riebl and Christian Facchi</i> "Regain Control of Growing Dependencies in OMNeT++ Simulations"	C201/C202
		Invited Speaker: <i>Andras Varga</i> "Towards OMNeT++ 5"	
		Panel Discussion: "The Future of OMNeT++"	
Break	17:30 - 17:45		Corridor
Tutorial #1	17:45 - 18:45	<i>Antonio Virdis</i> "Optimization in the Loop: Implementing and Testing Scheduling Algorithms with SimuLTE"	C201/C202
Dinner	19:00 – open		Moosegg



Friday, Sep. 4th AM

Session	Time	Speaker / Title	Location
	08:45 - 09:00	Registration	Reception
Future of INET Session Chair: Till Steinbach	09:00 - 09:30	Invited Speaker: <i>Rudolf Hornig</i> “Wireless Tutorial on INET 3.0”	C201/C202
	09:30 - 10:00	Invited Speaker: <i>Levente Meszaros</i> “Beyond INET 3.0”	
	10:00 - 10:20	Invited Speaker: András Varga, “Proposal for a New 802.11 MAC Model to Facilitate Experimentation and Contributions”	
	10:20 - 10:45	Panel Discussion: “Future of INET”	
Break	10:45 - 11:15		Corridor
Keynote #2	11:15 - 12:00	<i>Peter Altevogt</i> “Cloud Performance Simulations”	C201/C202
Lunch	12:00 - 13:00		Cafeteria



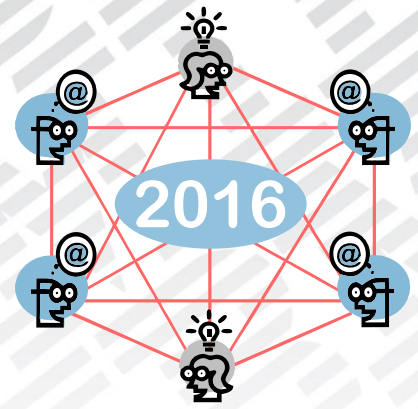
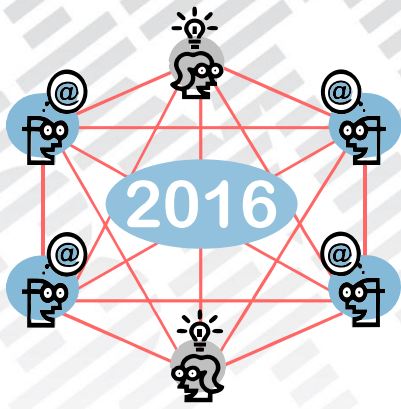
Friday, Sep. 4th PM

Session	Time	Speaker / Title	Location
New Protocols and Models Session Chair: Christoph Sommer	13:00 - 13:25	<i>Andreas Rain, Daniel Kaiser and Marcel Waldvogel</i> “Realistic, Extensible DNS and mDNS Models for INET/OMNeT++”	C201/C202
	13:25 - 13:50	<i>Felix Weinrank, Michael Tüxen and Erwin P. Rathgeb</i> “Integration of RTMFP in the OMNeT++ Simulation Environment”	
	13:50 - 14:05	<i>Martin Levesque and David Tipper</i> “ptp++: A Precision Time Protocol Simulation Model for OMNeT++/INET”	
	14:05 - 14:20	<i>Jeffery Weston and Eric Koski</i> “High Frequency Radio Network Simulation Using OMNeT++”	
	14:20 - 14:35	<i>Vladimir Vesely, Marcel Marek, Tomas Hykel and Ondrej Rysavy</i> “Skip This Paper - RINASim: Your Recursive InterNetwork Architecture Simulator”	
Break	14:35 - 14:45		Corridor
Tutorial #2	14:45 - 15:25	<i>Zhongliang Zhao, Denis Rosario, Torsten Braun and Eduardo Cerqueira</i> “A Tutorial of the Mobile Multimedia Wireless Sensor Network OMNeT++ Framework”	C201/C202
Closing	15:25 - 15:30	Summit Closure Note	C201/C202



Time to say goodbye...

A Big Thank You
for attending and contributing!



2016 OMNeT++ Community Summit

WANTED: Organizers/volunteers/contributors!