



PERCCOM
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Co-funded by the
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of the European Union

2015 Summer school in Green ICT Organised by PERCCOM

Pr. E. Rondeau – University of Lorraine

Programme:

1. Software Eco-design
2. Master Thesis defenses
3. Session organised by students
4. Conference on Green ICT
5. Closing Ceremony

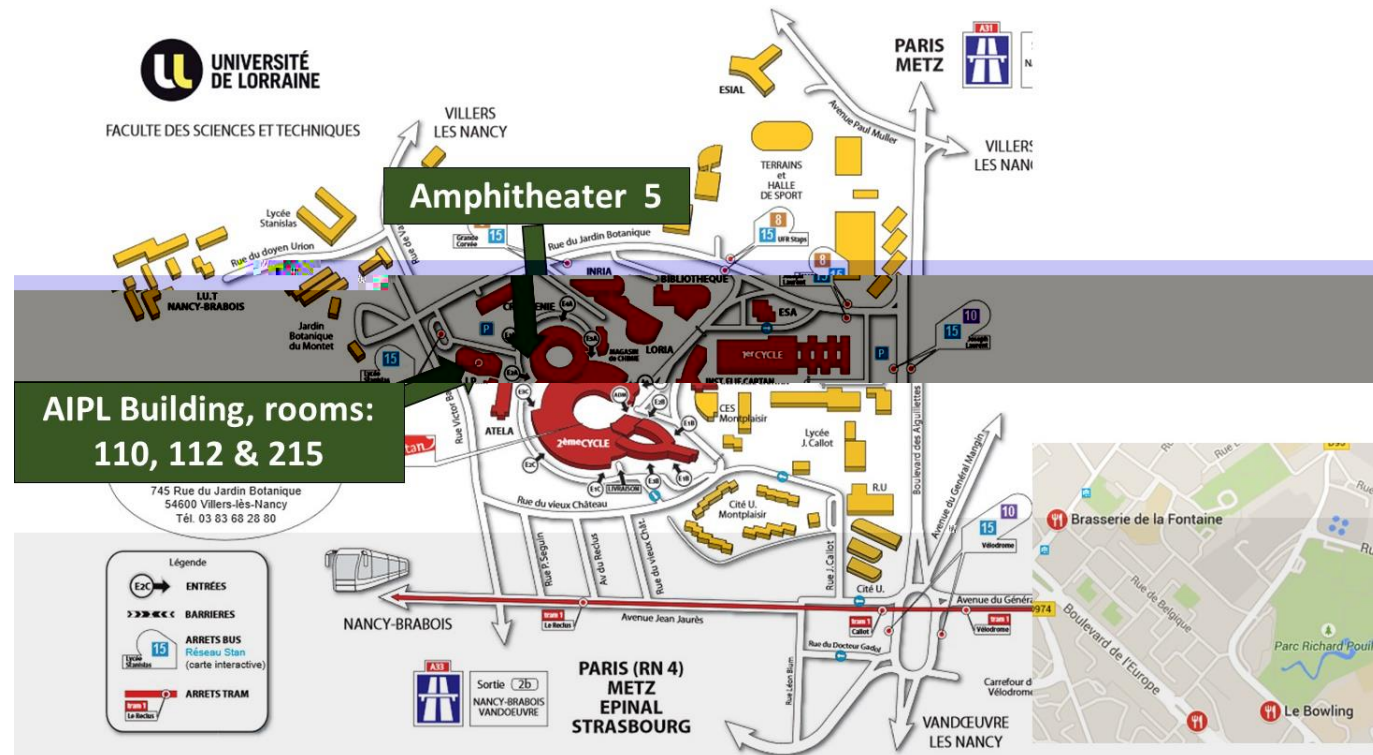


The screenshot shows the homepage of the PERCCOM website. At the top, it features the title "Erasmus Mundus Master : PERCCOM" and the subtitle "Pervasive Computing & COMMUNICATIONS for sustainable development". A search bar is located in the top right corner. Below the header is a banner image showing a collage of buildings and landscapes. A navigation menu is visible below the banner, including links for Home, News, PERCCOM?, Studies, How to Apply?, Student Life, Women & PERCCOM, Videos, and FAQ. The main content area is titled "PERCCOM in a few words" and contains a paragraph describing the Erasmus Mundus Joint Master Degree (EMJMD) in Pervasive Computing and Communications for Sustainable Development (PERCCOM). To the right of this text are links for "Contact Us", "Join Us on Facebook", "Join Students on Facebook", and "Follow Us on Twitter". Below these links is a "RECENT POSTS" section with three entries: "Thursday, 11th June 2015 - Research Meeting in CRAN", "Tuesday, 9th June 2015 - Meeting with CO2 project team", and "5 June : Master thesis pre-defense at UL". A green arrow points from the list of activities to the website screenshot.

<http://www.perccom.eu/summer-school-on-green-it-organised-by-perccom/>

Organisation of days:

- Morning Session 1
- Coffee Break (AIPL)
- Morning Session 2
- Lunch
- Afternoon Session 1
- Coffee Break (AIPL)
- Afternoon Session 2



Monday, 15th :

8:45-9:00 : General information on Summer School, Pr. Eric Rondeau

SOFTWARE ECO-DESIGN WORKSHOP, [Amphitheater 5](#)

9:00-10:30: Green Patterns Olivier Philippot – [KALITERRE](#)

10:30 – 11:00: Coffee Break, AIPL building

11:00-12:30: Green Patterns, Olivier Philippot – [KALITERRE](#)

12:30 – 14:00: Lunch

SOFTWARE ECO-DESIGN WORKSHOP,

[Computer Lab 112](#) (AIPL building)

14:00 – 16:00 : Measurement of Software Energy consumption, Olivier Philippot – [KALITERRE](#).

STEERING COMMITTEE,

[Room 110](#) (AIPL building)

14:00 – 16:00 : ESCCOM Programme (PERCCOM staff & visiting professors only).

16:00 – 16:30: Coffee Break, AIPL building

16:30 – 18:30 : Measurement of Software Energy consumption, Olivier Philippot – [KALITERRE](#).

16:30 – 18:00 : ESCCOM Programme (PERCCOM staff & visiting professors only).

Tuesday, 16th :

SOFTWARE ECO-DESIGN WORKSHOP,

[Computer Lab 112](#) (AIPL building)

8:30-10:30 : **Implementing Green Patterns**, Olivier Philippot
– [KALITERRE](#)

10:30 – 11:00: **Coffee Break**, AIPL building

11:00-12:30 : **Implementing Green Patterns**, Olivier
Philippot – [KALITERRE](#)

12:30 – 14:00: Lunch

SOFTWARE ECO-DESIGN CONFERENCE, [Amphitheater 5](#),

Chair: A. Rybin, ITMO University

14:00 - 14:30 : **Eco Design within Orange Technocentre : from the box to the software**, M. Vautier (Orange, France)

14:30 - 15:00 : **Green Computing Implementation with FPGA-based controllers**, Pr. V. Sklyar, (The National Aerospace University, Ukraine)

15:00 - 15:30 : **From big data and software to software eco-design**, Pr. A. Seffah, (Lappeenranta University of Technology, Finland)

STEERING COMMITTEE,

[Room 110](#) (AIPL building)

9:00 – 10:30 : ESCCOM Programme (PERCCOM staff & visiting professors only).

11:00 – 12:00 : ESCCOM Programme (PERCCOM staff & visiting professors only).

SOFTWARE ECO-DESIGN CONFERENCE, [Amphitheater 5](#),

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Tuesday, 16th :

15:30 - 15:45 : Coffee break, AIPL building

Master Thesis Session : GREEN SOFTWARE & STORAGE, [Amphitheater 5](#)

Chair: J.P. Georges, University of Lorraine

15:45 – 16:20 : *Energy Consumption of mobile applications*, Cristea Vlad

16:20 – 16:55 : *Energy Efficient Data Storage in Data Center Environment*, Baptiste Louis

16:55 – 17:30 : *A web-based environmental toolkit for small and medium-sized enterprises*, Maike Schmidt

17:30 – 18:05 : *Green aspects study in games development*, Victoria Palacin

20:00: Restaurant « Le Petit Français », 1 rue Isabey - Nancy (PERCCOM Staff and visiting professors only)

Wednesday, 17th :

Master Thesis Session : SMART CITIES & EDUCATION, [Amphitheater 5](#),
Chair: J.Porras, Lappeenranta University of Technology, Finland

9:00 - 9:35 : ***A Bayesian Approach for Forecasting Heat Load in a District Heating System***, Rohan Nanda

9:35 - 10:10 : ***Communication infrastructure in Smart cities***, Ngo Manh Khoi

10:10 - 10:40 : Coffee break, AIPL building

10:40 - 11:15 : ***Analysing and computing the gain (level of sustainability) for building automation***, Fisayo Sangogboye Caleb

11:15 - 11:50 : ***Sustainable Computer Science Education***, Matemimola Zainab

11:50 - 13:30: Lunch

Master Thesis Session : GREEN NETWORK (1), [Amphitheater 5](#),
Chair: A.L. Kor, Leeds Beckett University of Technology, UK

13:30 - 14:05 : ***Implement Green ICT approach for Transferring Big Data over parallel paths***, Stefanos Georgiou

14:05 - 14:40 : ***Benchmark of Routing Protocols regarding green considerations***, Ramya Narayanan

14:40 - 15:15 : ***Green Service Level Agreement***, Iqbal Ahmed

Wednesday, 17th :

15:15 - 15:45 : Coffee Break, AIPL building

Master Thesis Session : **NETWORK FOR GREENING**, [Amphitheater 5](#),
Chair: M. Lawo, University of Bremen, Germany

15:45 - 16:20 : *Load balancing in P2P smartphone based distributed IoT systems*, De Masi Alexandre

16:20 - 16:55 : *Designing energy efficient wireless sensors for context recognition in wearable computing applications*, Dorine Petit

17:00-18:00: PERCCOM steering Committee, [Room 215](#) AIPL Building

20:00: Restaurant, « La Mignardise », 28 Rue Stanislas - Nancy (PERCCOM Staff and visiting professors only)

Thursday, 18th :

Master Thesis Session : GREEN NETWORK (2), [Amphitheater 5](#),
Chair: O. Droegehorn, University of Applied Sciences Harz, Germany

8:30 - 9:05: **Green ICT metrics and Biomimicry**, Vitalii Poliakov

9h:05 - 9:40: **Development of Ecology oriented SDN-framework**, Chandra Satriana

9:40 - 10:15: **Modelling the Energy Consumption of a Switch using Fuzzy Rule-Based Classifier**, Alifia Fithritama

10:15 - 10:50: **Modelling the Energy Consumption of a Switch using Design of Experiment**, Md Mohaimenul Hossain

10:50 - 11:15: Coffee break, AIPL building

11:15 - 12:15: **Meeting with students & A. Kisylyzko**
(European Project Officer), [Amphitheater 5](#)

11:15-12:15: **PERCCOM steering Committee,**
[Room 215](#) AIPL Building

12h15 - 14h00: Lunch

14:00 - 16:00: PERCCOM Steering Committee meeting (with Project Officer), [Room 215](#) AIPL Building

16:00 - 19:00 : Session organised by PERCCOM students, [Amphitheater 5](#)

19:00 : **BARBECUE, [AIPL Building](#)**

Friday, 19th :

CONFERENCE ON GREEN ICT, [Amphitheater 5](#),

Chair: K. Andersson, Lulea University of Technology, Sweden

8:30 - 8:50 : PERCCOM, Eric Rondeau, University of Lorraine, France

8:50 - 9:20: *Machine Learning Approaches for Forecasting Energy Demands in Smart Grid Systems*, Saguna Saguna, Lulea University of Technology, Sweden

9:20 - 10:00: *Mobility Management in Mobile Cloud Computing*, Karan Mitra, Lulea University of Technology, Sweden

10:00 - 10:30 : Coffee Break, AIPL building

10:30 - 11:10: *Green Information Technology - A Sustainable Approach, A new book in Green IT*, Ah-Lian Kor, Leeds Beckett University, UK

11:10 - 12:00: *Reducing ICT environmental impact: Where to focus on in priority*, Frédéric Bordage, Greenit.fr, France

12:00 - 14:00 : BUFFET, [AIPL building](#)

Friday, 19th :

CONFERENCE ON GREEN ICT, [Amphitheater 5](#), Chair: D. Guibard, Dean at Telecom Ecole de Management, France

14:00 - 14:40 : ***The influence of structural factors on the environmental impacts of ICTs: the question of the obsolescence and the rebound effects***, Amélie Bohas, Université de Toulouse, France

14:40 - 15:20 : Benjamin SCHMIDT, Alliance Green IT, France

CLOSING CEREMONY ([Amphitheater 5](#))

15:20 - 15:40 : Denis Guibard, Dean at Telecom Ecole de Management, France

15:40 - 16:00 : Stéphane Flament, Dean at Faculty of Sciences, University of Lorraine

COCKTAIL ([AIPL building](#))