

Program of  
**3<sup>rd</sup> International Conference on Remanufacturing**

**ICOR**

international conference  
on **remanufacturing**

Linköping 24-26 October 2017



*Organized by*



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## Tuesday, October 24

| Location: Room A2, Building A, Campus Valla, Linköping University |  |  |                             |
|---|--|--|-----------------------------|
| Time  | Content  | Presenter  | Chair                       |
| 08:30-09:00   | Registration   |  |                             |
| 09:00-09:15   | Conference Opening   | Professor Per-Olof Brehmer, Linköping University<br>Assoc. professor Erik Sundin, Linköping University | Assoc. prof.<br>Erik Sundin |
| 09:15-10:00   | <b>Key Note:</b><br>Circular Economy trends and remanufacturing  | Professor Martin Charter<br>University of Farnham, UK  |                             |
| 10:00-10:30   | Coffee break   |  |                             |
| 10:30-11:00   | Remanufacture of Hot Forging Tools and Dies using Laser Metal Deposition with Powder and a Hard-Facing Alloy Stellite 21® - paper written by: Jim Foster, Crawford Cullen, Stephen Fitzpatrick, Grant Payne, Liza Hall and James Marashi | Crawford Cullen<br>University of Strathclyde, Scotland   | Prof.<br>Mattias<br>Lindahl |
| 11:00-11:30   | Evaluation of Remanufacturing for Product Recovery: Multi-criteria Decision Tool for End-of-Life Selection Strategy – paper written by: Yohannes Alamerew and Daniel Brissaud  | Yohannes Alamerew<br>University Grenoble Alpes, France   |                             |
| 11:30-12:00   | Accessing Medical Equipment in Developing Countries Through Remanufacturing – paper written by: Solomon Eze, Winifred Ijomah and Andy Wong   | Solomon Eze<br>University of Strathclyde, Scotland   |                             |
| 12:00-13:00   | Lunch at “The Coral” (in Swedish: Kårallen)  |  |                             |
| 13:00-13:45   | <b>Key Note:</b> Remanufacturing of IT Equipment at Inrego AB  | Erik Pettersson, Sustainability manager  | Prof.<br>Mats<br>Björkman   |
| 13:45-14:15   | Key success factors for implementing Upgrading Remanufacturing – paper written by Valentina Falconi, Erik Sundin, Marcello Colledani and Giacomo Copani  | Valentina Falconi<br>Politecnico di Milano, Italy  |                             |
| 14:15-14:45   | Remanufacturing lead time reduction through a Just-in-time Lean strategy: a case study on Laptops – paper written by Jelena Kurilova-Palisaitiene and Erik Sundin  | Jelena Kurilova-Palisaitiene,<br>Linköping University  |                             |
| 14:45-15:00   | Development of Wagons to collect IT Equipment cores – B.Sc. thesis work conducted by Joakim Adolfsson and Frida Jönsson Hellstadius  | Erik Sundin<br>Linköping University  |                             |
| 15:00-15:15   | Coffee break   |  |                             |
| 15:15-15:45   | A dedicated approach for the development of cleaning processes in remanufacturing – paper written by Stefan Thaeter, Frank Kuebler, Christoph Schmidt, Sebastian Schoetz, Rolf Steinhilper   | Stefan Thaeter<br>University of Bayreuth, Germany  |                             |
| 15:45-16:15   | Design-for-Testing for Improved Remanufacturability – paper written by Katherine Tant, Anthony Mulholland, Andrew Curtis and Winifred Ijomah   | Katherine Tant<br>University of Strathclyde, Scotland  |                             |
| 16:15-16:30   | A stepwise method towards products adapted for remanufacturing – presentation made by Louise Lindkvist   | Louise Lindkvist<br>Linköping University   |                             |
| 16:30-17:30   | Poster presentations and reception   |  |                             |

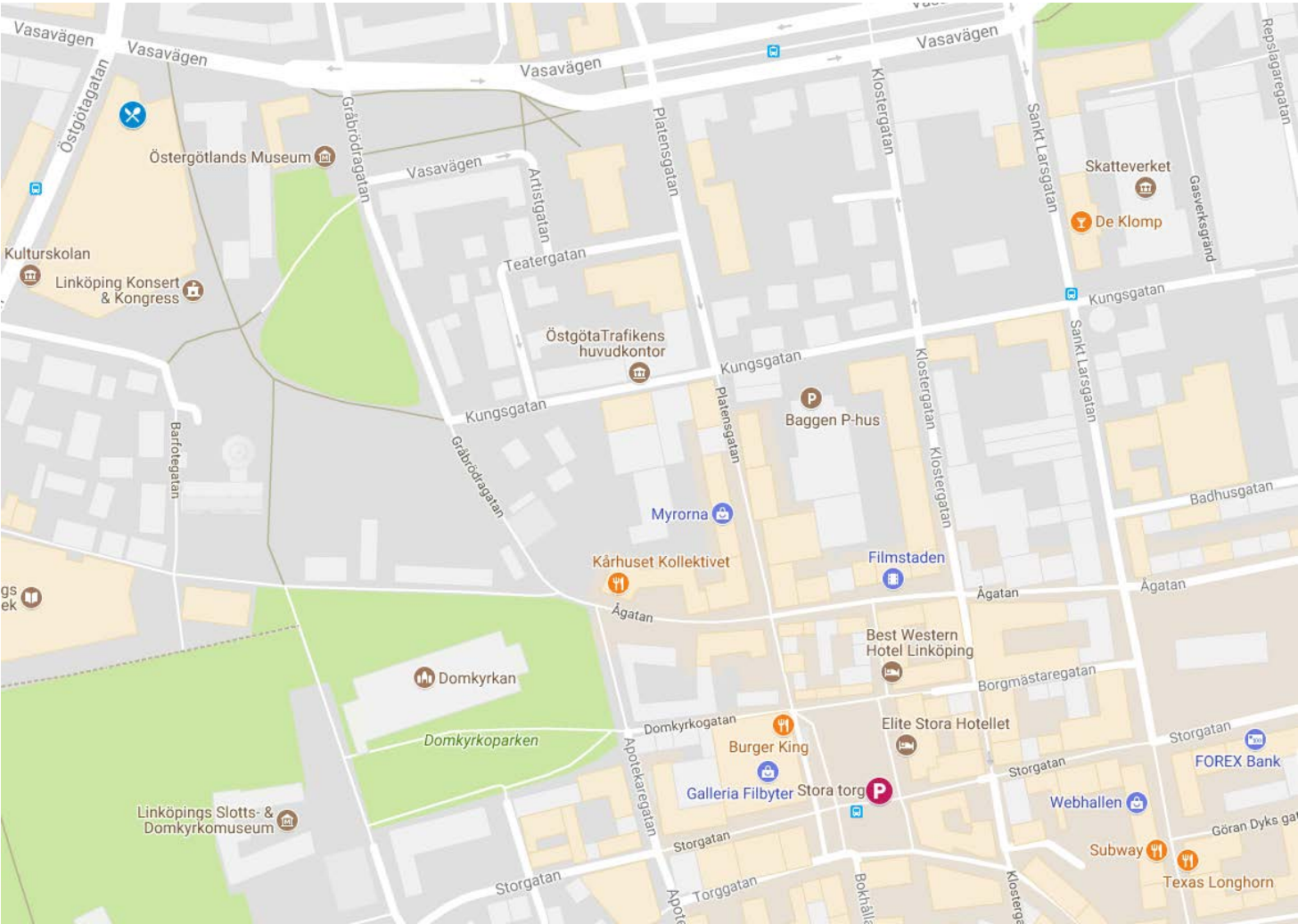
## Wednesday, October 25



| Location: Room A2, Building A, Campus Valla, Linköping University |   |   |                             |
|---|---|---|-----------------------------|
| Time  | Content   | Presenter   | Chair                       |
| 08:30-09:00   | Registration  |   |                             |
| 09:00-09:30   | Comparing leasing and buying white goods for the manufacturer and consumer – paper written by Patricia van Loon, Charles Delagarde, Luk N. Van Wassenhove and Aleš Mihelič  | Patricia van Loon<br>Social Innovation Centre, INSEAD, France               |                             |
| 09:30-10:00   | Management of End-Of-Life Products in an Advanced-Remanufacturing-To-Order-Disassembly-To-Order System in Multiple Periods under Stochastic Yields – paper written by Aditi Joshi and Surendra Gupta                                | Aditi Joshi<br>Northeastern University, Boston, U.S.A                       |                             |
| 10:00-10:15   | Low cost three-dimensional virtual model construction for remanufacturing industry – paper written by Muftooh Siddiqi, Winifred Ijomah, Gordon Dobie, Mutahir Hafeez, Gareth Pierce, William Ion, Carmelo Mineo and Charles MacLeod | Katherine Tant<br>University of Strathclyde, Scotland                       | Professor<br>Ou Tang        |
| 10:15-10:30   | Coffee break  |   |                             |
| 10:30-11:00   | The impact of returns uncertainty on the performance of a hybrid manufacturing/remanufacturing system – paper written by Borja Ponte, Mohamed M. Naim and Aris Syntetos   | Borja Ponte<br>Cardiff Business School, Cardiff University, UK              |                             |
| 11:00-11:30   | Heuristic procedure for the production planning problem with remanufacturing and considering recovery targets – paper written by: Pedro Piñeyro and Omar Viera  | Pedro Piñeyro<br>Universidad de la República, Uruguay                       |                             |
| 11:30-12:00   | Process data generation for integrated disassembly sequencing and machine scheduling – paper written by: Franz Ehm  | Franz Ehm<br>TU Dresden, Germany  |                             |
| 12:00-13:00   | Lunch at “The Coral” (in Swedish: Kårallen)   |   |                             |
| 13:00-13:30   | Circular Manufacturing Systems: A practical approach towards Circular Economy implementation  | Farazee Asif<br>KTH Royal Institute of Technology, Sweden                   | Professor<br>Mats Björkman  |
| 13:30-14:00   | Disassembly Parts Selection for Material-based CO <sub>2</sub> Saving Rate and Cost Considering Reuse – paper written by: Shota Hasegawa, Yuki Kinoshita, Tetsuo Yamada, Masato Inoue and Stefan Bracke                             | Shota Hasegawa<br>The University of Electro-Communications,<br>Tokyo, Japan |                             |
| 14:00-14:30   | Bus transfer to Toyota Material Handling Sweden – a company that has been remanufacturing forklift trucks since more than 12 years back in Mjölby, Sweden   |   |                             |
| 14:30-15:00   | Presentation by Toyota Material Handling Sweden   | Anders Nielsen, Plant manager   | Assoc. prof.<br>Erik Sundin |
| 15:00-15:30   | Industrial tour at Toyota Material Handling Sweden  |   |                             |
| 15:30-16:00   | Questions and Answers with Toyota Material Handling Sweden including coffee   |   |                             |
| 16:00-16:45   | Bus transfer to Linköping University and Linköping Downtown   |   |                             |
| 18:00-21:00   | Conference dinner at Back Stage in Konsert & Kongress (see map)   |   |                             |

## Thursday, October 26

| Location: Room A2, Building A, Campus Valla, Linköping University |  |   |                             |
|---|--|---|-----------------------------|
| Time  | Content  | Presenter   | Chair                       |
| 08:30-09:00   | Registration   |   |                             |
| 09:00-09:30   | <b>Key Note:</b><br>Ways that remanufacturing companies could collaborate within Europe  | David Fitzsimons<br>Director of Conseil Européen de Remanufacture         | Assoc. prof.<br>Erik Sundin |
| 09:30-10:00   | Workshop: Research priorities for businesses in the European Remanufacturing Council – discussion lead By David Fitzsimons   |   |                             |
| 10:00-10:30   | Coffee break   |   |                             |
| 10:30-11:00   | Building Bridges over Remanufacturing Barriers – paper written by: Iris Karvonen, Kim Jansson, Katri Behm and Saija Vatanen  | Iris Karvonen<br>VTT Technical Research Centre of Finland Ltd,<br>Finland |                             |
| 11:00-11:30   | An investigation of the value recovery process in the automotive remanufacturing industry: An empirical approach – paper written by Sakraan Sitcharangsie, Winifred Ijomah and T.C. Wong | Sakraan Sitcharangsie<br>University of Strathclyde, Scotland              | Katherine Tant              |
| 11:30-12:00   | A breakdown and description of the DATF models for improving inspection approaches within automotive remanufacturing – paper written by Ross Harris, Winifred Ijomah and James Windmill  | Ross Harris<br>University of Strathclyde, Scotland                        |                             |
| 12:00-13:00   | Lunch at “The Coral” (in Swedish: Kårallen)  |   |                             |
| 13:00-13:30   | Marketing research and life cycle pricing strategies for new and remanufactured products – paper written by Liangchuan Zhou and Surendra Gupta   | Liangchuan Zhou<br>Northeastern University, Boston, U.S.A                 | Prof.<br>Surendra Gupta     |
| 13:30-14:00   | Marketing for remanufactured products using warranty – paper written by Ammar Alqahtani and Surendra Gupta   | Ammar Alqahtani<br>Northeastern University, Boston, U.S.A                 |                             |
| 14:00-14:30   | Conference closure including best paper award  | Assoc. professor Erik Sundin  |                             |
| 14:30-14:45   | Coffee ending  |   |                             |

# Map over Linköping City

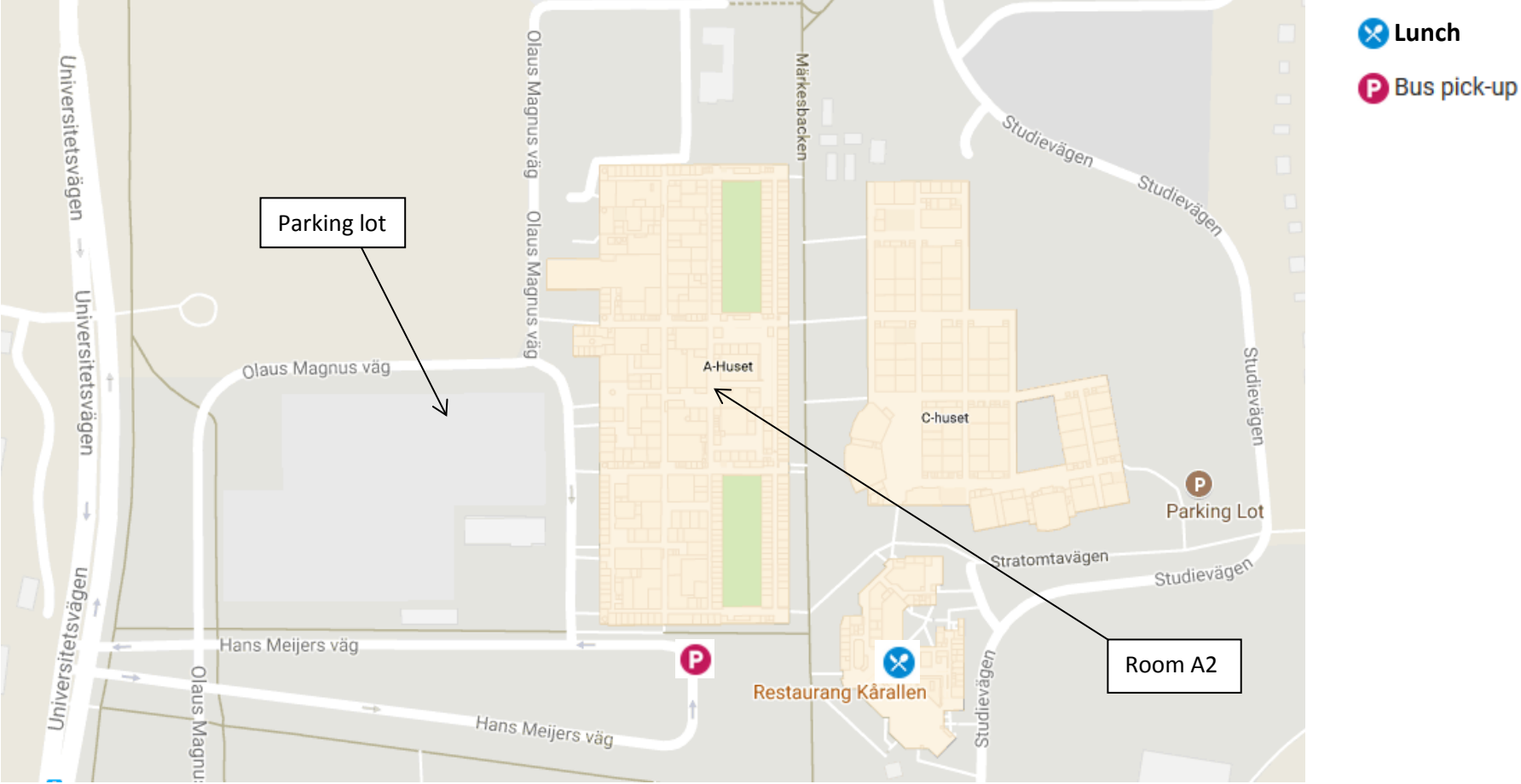


-  Dinner
-  Bus pick-up

**Bus information:**  
The ICOR-17 bus will pick delegates up from main square (in Swedish: Stora Torget) at 08.15 am all three conference days.

50 m

# Map over Linköping University, Campus Valla



If needed: Taxi number: +46-13-146000, address to Bus pick-up point: Linköping University, Campus Valla, Kårallen.