

EWI 2018 Program

Day 1: Monday, March 05

09:00-10:30 **Christian: Welcome & Introduction to Lot Sizing**

10:30-11:00 **Coffee Break**

11:00-12:00 **Christian: Introduction to Lot Sizing (cont'd)**

12:00-13:00 **Lunch**

13:00-15:00 **Presentations**

Integrated Lot Sizing and Blending Problems

Diego Jacinto Fiorotto

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A Three-Step Heuristic for Operational Production and Capacity Planning in Semiconductor Manufacturing

Quentin Christ

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15:00-15:30 **Coffee Break**

15:30-17:30 **Feedback Round: Christian, Xavier, Siao-Leu**

19:00-22:00 **Welcome Dinner at Kartoffelhaus ("Potato House")**

Day 2: Tuesday, March 06

09:00-10:30 **Wilco: Exact solution approaches for single-item lot-sizing problems**

10:30-11:00 **Coffee Break**

11:00-12:00 **Wilco: Exact solution approaches for single-item lot-sizing problems (cont'd)**

12:00-13:00 **Lunch**

13:00-15:00 **Presentations**

Efficient methods for solving the robust lot sizing problem with remanufacturing option

Öykü Naz Attila

19

Energy considerations for the Joint Economic Lot Sizing

Beatrice Marchi

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15:00-15:30 **Coffee Break**

15:30-17:30 **Feedback Round: Wilco, Fabian, Aldair**

Day 3: Wednesday, March 07

09:00-10:00 **Presentations**

Computing non-stationary (s; S) policies using mixed integer linear programming
Mengyuan Xiang 39

10:00-11:00 **Feedback Round: Christian, Wilco, Narges**

11:00-11:30 **Coffee Break**

11:30-18:00 **Excursion: Steel Mill Eisenhüttenstadt**

Day 4: Thursday, March 08

09:00-10:30 **Richard: Metaheuristics for Logistics Problems**

10:30-11:00 **Coffee Break**

11:00-12:00 **Richard: Metaheuristics for Logistics Problems (cont'd)**

12:00-13:00 **Lunch**

13:00-15:00 **Presentations**

A Mathematical Programming and Particle Swarm based Optimization Algorithm for Solving Dynamic Lot Sizing and Scheduling Problem in Make-To-Order, Multi-Constrained Production Environments with an Application
Burcu Kubur Özbel 49

A Simple Construction Heuristic for the Supply Vehicle Routing and Lot Sizing Problem enhanced by Genetic Programming
Fanny Hein 59

15:00-15:30 **Coffee Break**

15:30-17:30 **Feedback Round: Richard, Xueying, Gislaine**

Day 5: Friday, March 09

09:00-10:30 **Alistair: Applications of Lot Sizing**

10:30-11:00 **Coffee Break**

11:00-12:00 **Alistair: Applications of Lot Sizing (cont'd)**

12:00-13:00 **Lunch**

13:00-15:00 **Presentations**

Product-line design: a mathematical model with operational considerations

Xavier António Reis Andrade

71

Impact of tax legislation on lot-sizing and sourcing strategies

Hua Jin

85

15:00-15:30 **Coffee Break**

15:30-17:30 **Feedback Round: Alistair, Steffen, Diego**

Day 6: Saturday, March 10

07:30-19:00 **Excursion: Lausitz Lignite Mining Region**

Day 7: Sunday, March 11

Day off

Day 8: Monday, March 12

09:00-10:30 **Achim: Stochastic optimization**

10:30-11:00 **Coffee Break**

11:00-12:00 **Achim: Stochastic optimization (cont'd)**

12:00-13:00 **Lunch**

13:00-15:00	Presentations	
	Recent advances on integration of lot-sizing problems under uncertainty <i>Eduardo Curcio</i>	97
	Responsive stochastic capacitated lot sizing with dynamic safety stocks under tight service constraints <i>Fabian Friese</i>	111

15:00-15:30 **Coffee Break**

15:30-17:30 **Feedback Round: Achim, Sebastian, Mengyuan**

Day 9: Tuesday, March 13

09:00-10:30 **Bernardo: Mathematical programming-based heuristics for integrated lot-sizing**

10:30-11:00 **Coffee Break**

11:00-12:00 **Bernardo: Mathematical programming-based heuristics for integrated lot-sizing (cont'd)**

12:00-13:00 **Lunch**

13:00-15:00	Presentations	
	Mathematical models for lot-sizing and scheduling problems considering perishability <i>Sylvia Chen</i>	123
	Perishability in integrated procurement and reprocessing planning of reusable medical devices in hospitals <i>Steffen Rickers</i>	137

15:00-15:30 **Coffee Break**

15:30-17:30 **Feedback Round: Bernardo, Quentin, Tom**

Day 10: Wednesday, March 14

08:30-10:30	Presentations	
	Inventory Routing with Time Windows and Cyclic Inventories under Stochastic, Serially Correlated Demands <i>Sebastian Malicki</i>	147

Heuristics for a Complex Lot Sizing Problem with Parallel Machines and Production Time Windows in Apparel Manufacturing
Xueying Shen 177

10:30-11:45 **Feedback Round: Christian, Bernardo, Fanny, Öykü Naz**

11:45-18:00 **Excursion to Cloister and Brewery of Neuzelle)**

Day 11: Thursday, March 15

09:00-10:30 **Stéphane: Integration of lot sizing decisions with other tactical and/or operational decisions**

10:30-11:00 **Coffee Break**

11:00-12:00 **Stéphane: Integration of lot sizing decisions with other tactical and/or operational decisions (cont'd)**

12:00-13:00 **Lunch**

13:00-15:00 **Presentations**

Column generation for the Inventory Routing Problem

Aldair Alberto Alvarez Diaz

191

Decomposition methods for an integrated three-level lot sizing and transportation problem with a distribution structure

Matthieu Gruson

201

15:00-15:30 **Coffee Break**

15:30-17:30 **Feedback Round: Stéphane, Sylvia (Shou), Hua**

Day 12: Friday, March 16

08:30-10:30 **Presentations**

Generalized 3-Levels Integrated Lot-Sizing and Cutting Stock Problem: Solution Methods

Gislaine Melega

215

Stochastic Lot Sizing Problem with Joint Service Level Constraints

Narges Sereshti

225

10:30-12:00 **Feedback Round: Stéphane, Christian, Eduardo, Beatrice**

12:00-13:00 Lunch

13:00-15:00 Presentations

Coordination of a two-level supply chain with supplier's market power and capacity reservation contract

Siao-Leu Phouratsamay 237

Solving the Multi-Level Capacitated Lot-sizing Problem under Consideration of Lead Time

Tom Vogel 247

15:00-15:30 Coffee Break

15:30-17:30 Feedback Round: Christian, Burcu, Matthieu

19:00-22:00 Farewell Dinner at "Oderspeicher" (Greek Restaurant)
