

# Carnegie Mellon / technische universiteit eindhoven *Collaborative Workshop*

## Organizers

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## 2-3 July 2005

Carnegie Mellon University, Pittsburgh, PA  
Newell Simon Hall 3305

The Carnegie Mellon / Technische Universiteit Eindhoven Collaborative Workshop will include researchers from a different departments of the two universities with common interest in stochastic processes, inventory and supply chain management, task assignment, scheduling, and queueing theory, particularly as these are applied in computer science.

### Saturday, 2 July 2005

- 8:30 am *Continental Breakfast / Discussion*
- 9:30 am **Erik Winands**, *Technische Universiteit Eindhoven*  
A Two-Queue Model with Alternating Limited Service and State-Dependent Setups
- 10:00 am **Maria Vlasiou**, *Technische Universiteit Eindhoven*  
On a non-increasing Lindley-type equation
- 10:30 am *Break / Discussion*
- 11:30 am **A. A. Kranenburg**, *Technische Universiteit Eindhoven*  
Cost optimization in the (S-1,S) lost sales inventory model with priority demand classes
- 12:00 pm **Paul Enders**, *Technische Universiteit Eindhoven*  
A Mixed Lost-Sales Backordering Inventory Problem with Two Customer Classes
- 12:30 pm *Lunch*
- 2:00 pm **Laurens Debo**, *Carnegie Mellon University*  
Herding and Congestion
- 2:30 pm **Geert-Jan van Houtum**, *Technische Universiteit Eindhoven*  
The Use of Queueing Theory in Inventory Problems
- 3:00 pm-5:00 pm **Carnegie Mellon / Eindhoven Collaborative Center Discussion**

### Sunday, 3 July 2005

- 8:30 am *Continental Breakfast / Discussion*
- 9:30 am **Bert Zwart**, *Technische Universiteit Eindhoven*  
Fluid approximation of a processor sharing queue with impatient customers
- 10:00 am **Urtzi Ayesta**, *Centrum voor Wiskunde en Informatica*  
Mean Delay Analysis of Multilevel Processor Sharing
- 10:30 am *Break*
- 11:30 am **Adam Wierman**, *Carnegie Mellon University*  
Classifying Sched. Policies with Respect to Higher Moments of Conditional Response Time
- 12:00 pm **Alan Scheller-Wolf**, *Carnegie Mellon University*  
Simple Formula for Analysis of Alternating Load Queues
- 12:30 pm *Lunch*
- 3:00 pm **Tom van Woensel**, *Technische Universiteit Eindhoven*  
Variability in Dynamic Routing Problems
- 3:30 pm **Nicola Secomandi**, *Carnegie Mellon University*  
An Analysis of the Control Algorithm Re-solving Issue in Dynamic Resource Allocation Problems
- 4:00 pm-5:00 pm **Continuation of Center Discussion and Wrap-Up**