

# Program for GMMC-day

Wednesday May 30, 10:00 - 19:00

Chalmerska Huset, Södra Hamngatan 11, Ph. 031-7723950

10:00 - 10:15: **Coffee**

## Session 1.a: Poppelmanska rummet

Chairman: Johan Jonasson

10:15 – 10:30: Joachim Almquist, Life Sciences /FCC: "Protein production"

10:30 – 10:35: Discussion

10:35 – 10:40: Break

10:40 – 10:55: Martin Berglund, MV: "Improved parameter estimation of lipoprotein kinetics with nonlinear mixed effects models"

10:55 – 11:00: Discussion

11:00 – 11:05: Break

11:05 – 11:20: Fredrik Boulund, MV: "Searching metagenomes to identify and discover mobile fluoroquinolone antibiotic resistance genes using hidden Markov models"

11:20 – 11:25: Discussion

11.25 – 11:30: Break

11:30 – 11:45: Olle Häggström, MV: "Making money from coin tossing"

11:45 – 11:50: Discussion

## Session 1.b: Biblioteket

Chairman: Aila Särkkä

10:15 – 10:30: Peter Jagers, MV: "Populations bounded by the capacity of their habitat – a research programme started from collaboration between mathematics and ecology."

10:30 – 10:35: Discussion

10:35 – 10:40: Break

10:40 – 10:55: Rebecka Jörnsten, MV: "Body score (Kroppens partitur)"

10:55 – 11:00: Discussion

11:00 – 11:05: Break

11:05 – 11:20: Björn Andersson, Applied Mechanics /FCC: "Droplet breakup in automotive spray painting"

11:20 – 11:25: Discussion

11.25 – 11:30: Break

11:30 – 11:45: Michael Patriksson: "Traffic planning".

11:45 – 11:50: Discussion

11:50 – 12:40: **Lunch in Chalmersska Huset**

### **Session 2.a: Poppelmanska rummet**

Chairman: Igor Rychlik

12:40 – 12:55: Domenico Spensieri Production /FCC: “Line balancing, sequencing, and coordination”

12:55 – 13:00: Discussion and break

13:00 – 13:15: Karin Thörnblad, MV: ”Flexible job shop scheduling”

13:15 – 13:20: Discussion

13:20 – 13:25: Break

### **Session 2.b: Biblioteket**

Chairman: Petter Mostad

12:40 – 12:55: Mehdi Sharif Yazdi: “Delay management in liner shipping networks”.

12:55 – 13:00: Discussion and break

13:00 – 13:15: Staffan Nilsson: “How related are relatives? - variation in genetic sharing”

13:15 – 13:20: Discussion

13:20 – 13:25: Break

### **Session 3: Poppelmanska rummet**

Chairman: Bernt Wennberg

13:25 – 13:40: Bo Bergman, Total Quality Mangement, Chalmers: TBA

13:40 – 13:45: Discussion and break

13:45 – 14:00: Stefan Hohmann, The Hohmann Laboratory, GU: “Quantitative analysis of AMPK signal transduction in yeast”

14:00 – 14:05: Discussion and break

14:05 – 14:20: Martin Holmén, Centre for Finance, GU: "Do option-like incentives drive bubbles? Evidence from experimental asset markets"

14:20 – 14:25: Discussion and break

14:25 – 14:40: Mariagrazia Marucci: TBA

14:40 – 14:45: Discussion

14.45 – 15:10: **Coffee**

### **Session 3, forts: Poppelmanska rummet**

Chariman: Mats Rudemo

15:10 – 15:25: Ziad Taib, Astra-Zeneca and MV: ”Stochastic methods in pharmacokinetics”

15:25 – 15:30: Discussion and break

15:30 – 15:45: Dag Wedelin: On the importance of mathematical modelling in engineering  
Education

15:45 – 15:50: Discussion and break

15:50 – 16:05: Trent Victor: “Inattention risk function in traffic accidents”

16:05 – 16:10: Discussion and break

**Discussion: Poppelmanska rummet**

16:10 – 17:00: Strengthening the collaboration mathematics – science – industry in  
Gothenburg

17:00 – 19:00: **Mixer: drinks and tapas in Kinesiska gården**