

GMMC-day: The future of applied mathematics in Gothenburg

*Friday, December 10, 9-16, Conference Centre Wallenberg, Medicinaregatan 20 A
Find your way at <http://www.service.gf.gu.se/konferensverksamhet/konfwall/hittahit/>*

Morning: Scientific talks

9:00–9:15 ***Coffee***

Parallel session 1a

chairman: Michael Patriksson

- 9:15–9:30 Martin Adiels “Lipid metabolism in cardiovascular disease, from static data to dynamic models”
9:30–9:35 Discussion
9:35–9:40 Break
9:40–9:55 Christer Borell “On the aversion to variance of a risky asset”
9:55–10:00 Discussion
10:00–10:05 Break
10:05–10:20 Tobias Gebäck “Dose calculation in radiation therapy”
10:20–10:25 Discussion

Parallel session 1b

chairman: Aila Särkkä

- 9:15–9:30 Stefan Jakobsson “EEG-based Source Localization in the Human Brain Using adaptive Finite Element Methods”
9:30–9:35 Discussion
9:35–9:40 Break
9:40–9:55 Jenny Jonasson “SUMO biomaterials and analysis of microscopy images”
9:55–10:00 Discussion
10:00–10:05 Break
10:05–10:20 Mats Kvarnström “Automated recognition, tracking, and quantitative analysis of yeast cells from transmission microscope images”
10:20–10:25 Discussion

10:25–10:40 ***Coffee***

Parallel session 2 a

chairman: Stig Larsson

- 10:40–11:05 Torbjörn Lundh “The y-graft, the first natural artificial by-pass graft”
11:05–11:10 Discussion
11:10–11:15 Break
11:15–11:30 Andreas Mark “Simulation of Fluid-Structure Interaction Using Immersed Boundary Methods with Application to Paper Forming”

11:30–11:35 Discussion
11:35–11:40 Break
11:40–11:55 Igor Rychlik “Non-Gaussian models - road roughness”
11:55–12:00 Discussion

Parallel session 2 b

chairman: Mats Jirstrand

10:40–11:05 Serik Sagitov “Stochastic models of gene and species trees”
11:05–11:10 Discussion
11:10–11:15 Break
11:15–11:30 Dmitrii Zholud “Extremes of some popular statistical tests for non-normal and not necessarily independent random variables”
11:30–11:35 Discussion
11:35–11:40 Break
11:40–11:55 Alexey Geynts “Lattice-Bolzman modelling of flow in heterogeneous materials”
11:55–12:00 Discussion

12:00–12:45 ***Lunch in Lyktan***

Session 3

chairman: Holger Rootzén

12:45–13:00 Bo Johanson “The future of applied mathematics at MV”
13:00–13:05 Discussion
13:05–13:10 Break
13:10–13:25 Uno Nävert “The future of the FCC – MV cooperation”
13:25–13:30 Discussion
13:30–13:35 Break
13:35–13:50 Olle Nerman “The future of biomathematics at MV”
13:50–13:55 Discussion
13:55–14:00 Break
14:00–14:15 Kerstin Wiklander “Framtiden för konsultverksamheten på MV”
14:15–14:20 Discussion
14:20–14:25 Break

Session 4

14:25–14:30 Holger Rootzén “intro to group talk”
14:30–15:15 The future: group talk (**includes coffee**)
15:15–16:00 Presentation and discussion of results from group talk

18:00– MV Christmas party