17th Geilo Winter School in eScience

Outline

- About the winter school
- Practical information
- This years topic and program



What is the winter school?

- Started by Knut-Andreas Lie in 2001
- Held annually the end of January at Dr. Holms Hotel, Geilo

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
07:00 - 09:00		Breakfast				
09:00 - 10:30		Lecture	Lecture	Lecture	Lecture	Lecture
10:30 - 12:30		Break (lunch 12:30 - 14:00)				Lecture
12:30 - 14:45		DI CON (IUIII	Break (lunch 12:50 - 14:00)			
15:00 - 16:30		Lecture	Lecture	Lecture	Lecture	
16:30 - 17:00		Coffee				
17:00 - 18:30	Lecture	Lecture	Lecture	Lecture / Poster	Lecture	





- Typical schedule consists of 14 double lectures (1.5 hours)
 - The lectures targets Ph.D. students and young researchers
 - Long mid-day break for skiing and socializing
 - School topic chosen by scientific committee each year





What is the winter school?

The aim of the winter school is two-fold

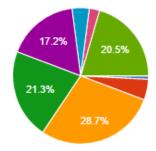
1. Learn something about a new topic in eScience

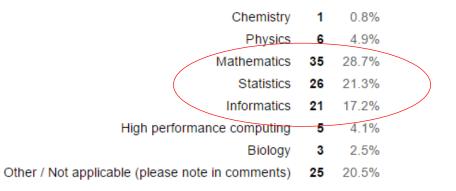
2. Meet and connect with other PhD students within a different field of eScience



Who is here now?

Field of research:



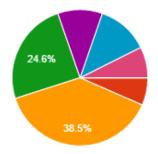






Who is here now?

Research level:

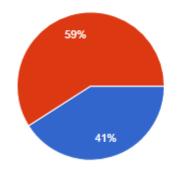


Bachelor student)	0%	
Master student	3	6.6%	
PhD student 4	7	38.5%	
Post doc / young researcher 3)	24.6%	
Associate professor / experienced researcher 1	3	10.7%	
Professor / senior researcher 1	5	12.3%	
Other / Not applicable (please note in comments)	Э	7.4%	



Who is here now?

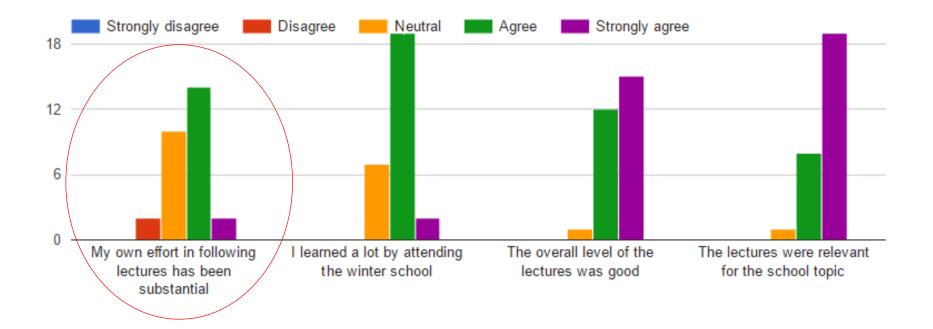
I will bring a poster to the winter school:



Yes	50	41%
No	72	59%



Survey from last years school





Varied topics within eScience

2001: Cluster computing	2002: Methods for CFD	2003: Nonlinear PDEs	2004: Evolutionary PDEs	2005: Inverse problems
2006: Finite Element method	2007: Monte Carlo methods	2008:Parallel Computing	2009: Optimization	2010: Automatic Differentiation
2011: Multiscale methods	2012: Continuum Mechanics	2013: Reproducible Research	2014: Big data and statistics	2015: Uncertainty Quantification
2016: Scientific Visualization	2017: Machine Learning	2018: ???	2019: ???	2020: ???
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Winter Schools in eScience

- Scientific committe 2016-2020:
 - Inga Berre, University of Bergen
 - Xing Cai, Simula / University of Oslo
 - Anne C. Elster, NTNU
 - Margot Gerritsen, Stanford
 - Helwig Hauser, University of Bergen
 - Knut-Andreas Lie, SINTEF / NTNU
 - Hans Ekkehard Plesser, Norwegian University of Life Sciences
 - Geir Storvik, University of Oslo
 - Ståle Walderhaug, SINTEF / University of Tromsø
 - Trond Kvamsdal, NTNU



Winter Schools in eScience



With funding from The Research Council of Norway

- Funded by the Research Council of Norway
 - 2001-2004: Winter schools in computational mathematics (137461)
 - 2005-2006: Winter schools in computational mathematics (159868)
 - 2007-2010: National Arena in eScience (178774)
 - 2011-2015: eVita Winter School (203376)
 - 2016-2020: Geilo Winter School in eScience (249772)



Information about Dr. Holms

- Opened in 1909
 - Originally a place for asthmatic city dwellers to get fresh air (Relevant even today!)
 - Rebuilt and extended countless times.
- Meals for those staying at Dr. Holms
 - Breakfast from 7:30 to 9:00
 - Lunch from 12:30 to 14:00
 - Dinner at 19:30
 - Coffee breaks with light snacks
 - Please: no ski boots, shorts, sandals etc. in the dining hall
 - Allergies? Let the hotel know!
- Use the meals and breaks as an opportunity to meet someone new
- All beverages must be paid for separately



Dr. Ingebrikt Christian Holm



Ghost Woman, Nelson Soucasaux



Information about Dr. Holms

- Discounted ski passes can be bought at Slaatto
 - 2 hours for 160 NOK (50 NOK for a reusable keycard)
 - 4 hours for 190 NOK (50 NOK for a reusable keycard)
- Discounted ski passes with ski rental
 - 30% discount: Ask for information at the reception
- You may eat lunch in the slopes:
 - You can also make your own packed lunch during breakfast





Information about Dr. Holms

- Bowl & Dine with bowling hall
 - 50 meters to the right when exiting the hotel by the reception.
 - NOK 360 per lane per hour
- Swimming pool and spa department
 - Close to the lecture halls
 - Spa open for reservations



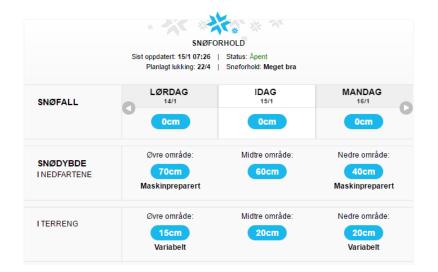




Weather forecast for Geilo

Langtidsvarsel

Mandag 16. januar 12–18	Tirsdag 17. januar 12–18	Onsdag 18. januar 13–19	Torsdag 19. januar 13–19	Fredag 20. januar 13—19
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Yr.no, Skiinfo.no, 2016-01-



Internet

Network name: Dr. Holms Hotel No password required



With great power comes great responsibility

- Please show respect for our lecturers: use the internet responsibly and pay attention
- There's ample time during the breaks to check important emails etc.







Lecturers



Filippo M. Bianchi



Devdatt Dubhashi



Nils Lid Hjort



Robert Jenssen



P



Joaquin Vanschoren

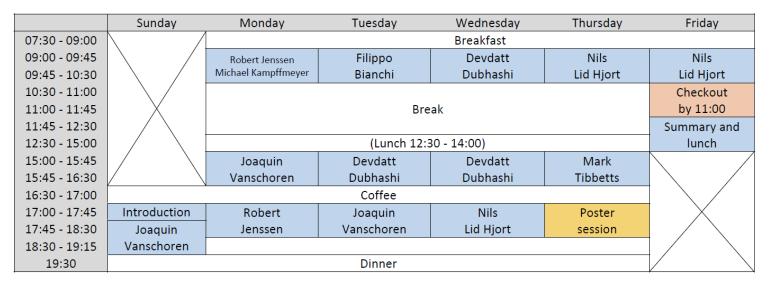


Mark Tibbetts



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Winter School Program



- Lectures start <u>on the hour</u>, not quarter past.
- Show respect for our lecturers and be on time (also for the morning lectures)!
- Today we will have a lecture until about 19:15





Poster session

- From 17:00 18:30 on Thursday
- Wide range of topics
 See program for list of presenters
- Hang posters during break on Thursday
- Light refreshments (canapés) and a drink coupon

SINTEF





Welcome

- Thank you all for coming to the winter school
- I truly hope you will have a good week here!



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