

Welcome to the conference
**Mesoscopic Transport and Quantum
Coherence 2017!**



Mika A. Sillanpää, conference chair
Department of Applied Physics
Aalto University, Finland

Welcome to the conference

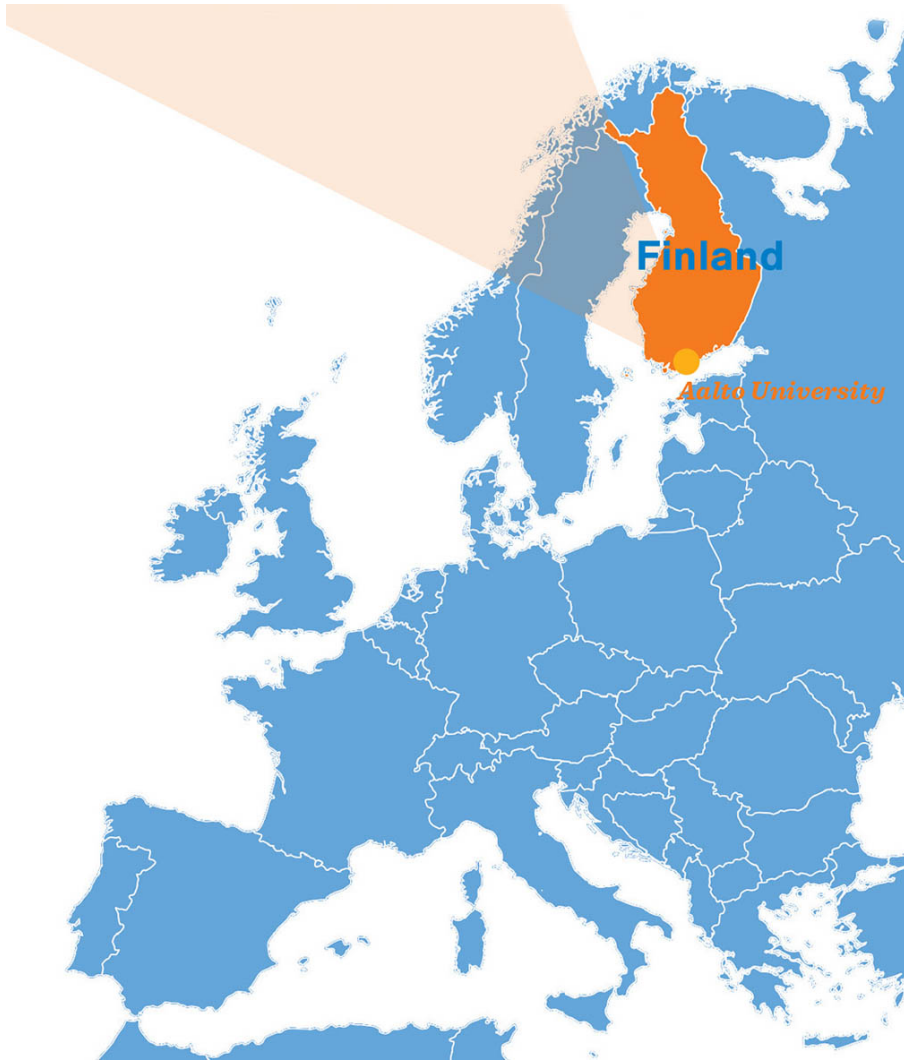
Mesoscopic Transport and Quantum Coherence 2017!



Endorsed by



Where we are





Finland 1917 - 2017

Suomi
Finland
100



Finland

- **3rd least corrupt country in the world**
(Transparency International)
- **2nd most educated country in the world**
(WEF)
- **13th best country in the world** *(U.S. News & World Report)*
- **7th best quality of life in the world** *(U.S. News & World Report)*

Finland



**FALLS ON
THE FLOOR**

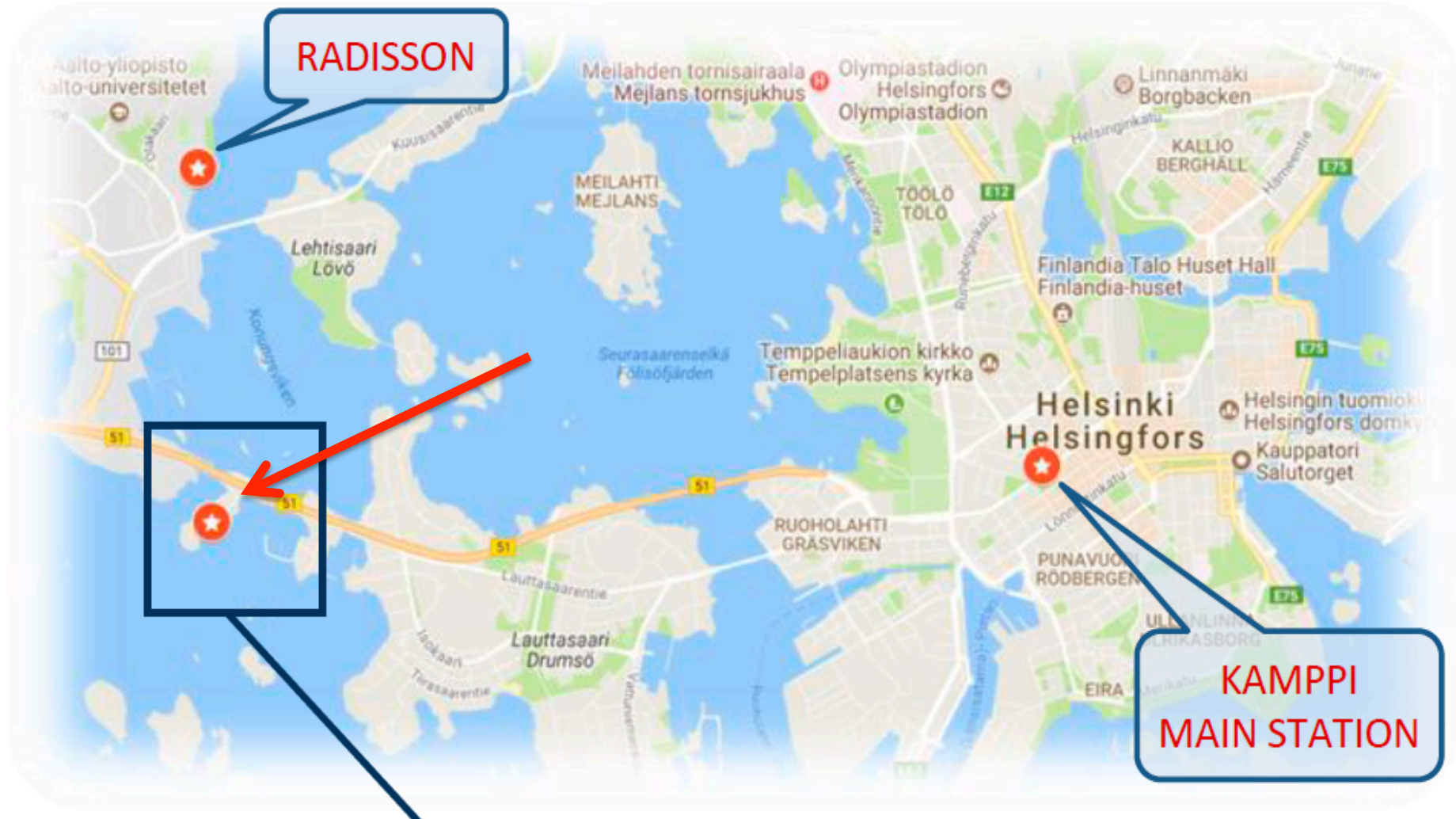
**BREAKS
THE FLOOR**

NOKIA

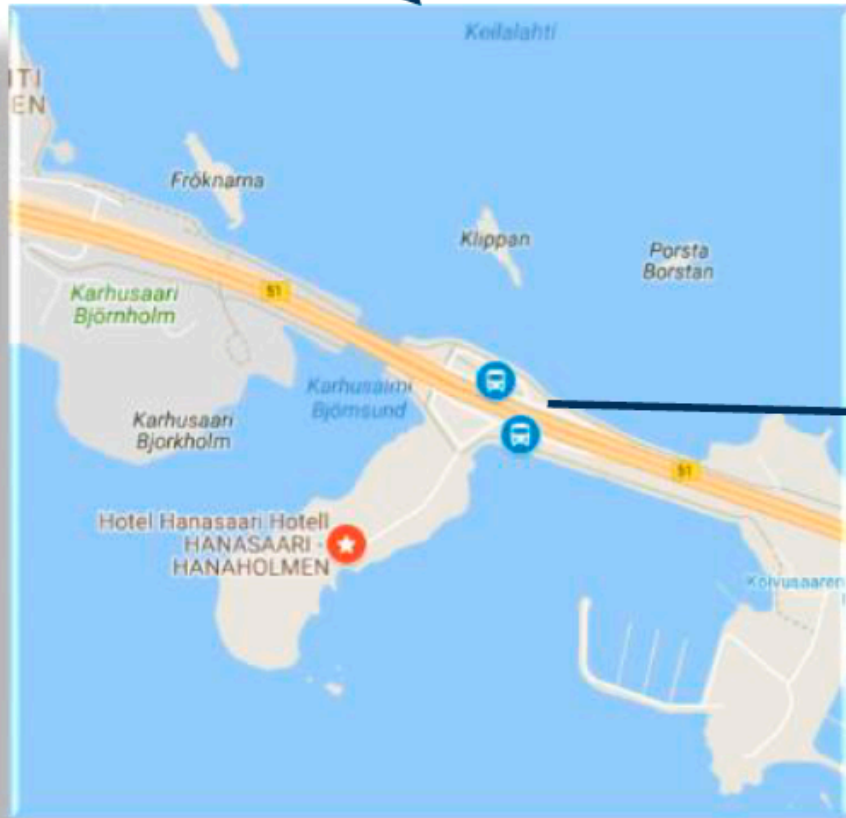
*Biggest company in
Europe in 1999*



Where we are



Where we are



To/from Kamppi:

102, 102T, 103, 103T, 105,
106, 106K, 107, 109, 109T,
111, 111T, 112, 122, 122A,
132, 143, 143A, 143AT, 143K,
145, 147, 147K, 147T, 150,
150A, 150K, 154, 156, 158,
160, 160K, 160KT, 165, 165V,
171, 172, 173, 174Z

To/from Radisson:

102, 102T, 103, 103T

~~LANSIMETRO~~

Hanasaari Swedish-Finnish Cultural Centre

- Since 1975
- Finland's gift to Sweden as a return for canceling a wartime debt

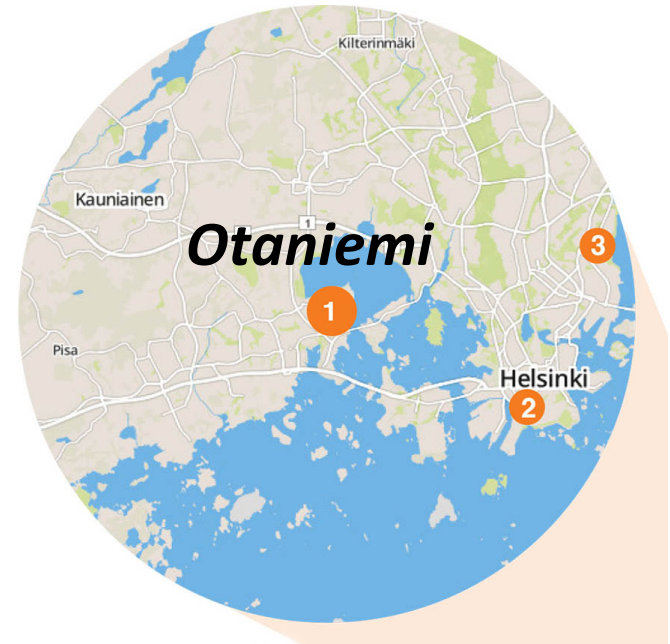




Aalto University

- New university with over a century of experience
- School of Science
- Schools of
 - Engineering
 - Chemical Engineering
 - Electrical Engineering
 - Business
 - Arts, Design and Architecture
- 20000 students
- 300 professors

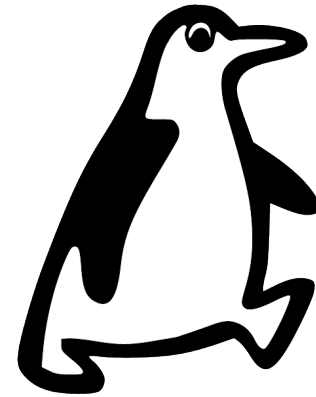
(former
Helsinki University of
Technology)





Aalto University

- Department of Applied Physics
- Low Temperature Laboratory
 - Since 1965
- Centre for Quantum Engineering
 - Strategic initiative 2015 -



Centre for
Quantum
Engineering

OtaNano

- **Micronova Nanofabrication Center**
 - **Low Temperature Laboratory**
 - **Nanomicroscopy Center**
- Hosted by Aalto and VTT Technical
Research Centre of Finland**



	plenary	invited	contributed					
Time	Fri 4.8.	Sat 5.8.	Sun 6.8.	Mon 7.8.	Tue 8.8.			
7:15-9:00			breakfast (at the site of accommodation/own expense)					
9:00-9:15		Opening words Mika Sillanpää						
9:15-9:30		Olli V. Lounasmaa Memorial Prize 2016 presentation Pertti Hakonen	SUPERCONDUCTING QUBITS AND CIRCUIT QED Chair: Alexey Feofanov Matthias Steffen	QUANTUM DOTS Chair: Peter Samuelsson Jason Petta	QUANTUM THERMODYNAMICS Chair: Jukka Pekola Mauro Paternostro			
9:30-9:45		SUPERCONDUCTING QUBITS AND CIRCUIT QED Chair: Pertti Hakonen Michel Devoret						
9:45-10:00			Göran Johansson	Gwendal Fève	Jonne Koski			
10:00-10:15								
10:15-10:30		Julian Kelly	Bradley Moores	Ning Kang	Peter Samuelsson			
10:30-10:45			Marc Ganzhorn	Alessio Calzona	Andrei Lebedev			
10:45-11:15		coffee	coffee	coffee	coffee			
11:15-11:30		AMPLIFIERS AND DETECTORS Chair: Tim Duty Gordey B. Lesovik	QUANTUM EFFECTS IN ELECTRON TRANSPORT Chair: Jason Petta Hugues Pothier	HYBRID MESOSCOPIC DEVICES Chair: Ferdinand Kuemmeth Attila Geresdi	QUANTUM SENSING Chair: Sorin Paraoanu Christopher Eichler			
11:30-11:45								
11:45-12:00		Kirill Fedorov	Shahal Ilani	Matthieu Dartailh	Evgeni Il'ichev			
12:00-12:15		Quentin Ficheux						
12:15-12:30		Thomas Weissl	Christopher Bäuerle	Gulibusitan Abulizi	Mikko Möttönen			
12:30-12:45		Giuseppe Falci	Emanuele Enrico	Heng Wang	Olivier Maillet			
12:45-14:00		lunch	lunch	conference photo & lunch	lunch			
14:00-14:15								
14:15-14:30		CAVITY OPTOMECHANICS Chair: Mika Sillanpää Konrad Lehnert	QUANTUM TRANSPORT IN TOPOLOGICAL MATERIALS Chair: Hugues Pothier Karyn Le Hur	MOLECULAR MAGNETS AND SPIN DEVICES Chair: Christian Flindt Franck Balestro				
14:30-14:45								
14:45-15:00		Alexey Feofanov	Pablo Bursset	Ferdinand Kuemmeth				
15:00-15:15		Mauro Cirio	Cosimo Gorini					
15:15-15:30		Jeremie J. Viennot	Yuriy Makhlin	Stephan Philips				
15:30-16:00		coffee	coffee	coffee				
16:00-16:15		JOSEPHSON JUNCTIONS Chair: Evgeni Il'ichev Alexander Mel'nikov	2D MATERIALS Chair: Christopher Bäuerle Jonathan Prance	QUANTUM HALL EFFECTS Chair: Francesco Massel Gleb Finkelstein				
16:15-16:30								
16:30-16:45		Tomáš Novotný	Sagar Bhandari	Luca Yannucci				
16:45-17:00		Tim Duty	Manohar Kumar	Antti Laitinen				
17:00-17:15		Patrick P. Hofer						
17:15-17:30	Registration open (until end of the Welcome reception) Micronova Tietotie 3 Espoo			Departure to the boat trip Hanasaari harbour				
17:30-17:45		Poster session 1 >SUPERCONDUCTING QUBITS AND CIRCUIT QED >CAVITY OPTOMECHANICS >JOSEPHSON JUNCTIONS >QUANTUM EFFECTS IN ELECTRON TRANSPORT >QUANTUM TRANSPORT IN TOPOLOGICAL MATERIALS >2D MATERIALS	Poster session 2 >QUANTUM DOTS >HYBRID MESOSCOPIC DEVICES >MOLECULAR MAGNETS AND SPIN DEVICES >QUANTUM HALL EFFECTS >QUANTUM THERMODYNAMICS >AMPLIFIERS AND DETECTORS >QUANTUM SENSING					
17:45-18:00								
18:00-18:15				Boat trip to Dinner				
18:15-18:30								
18:30-18:45	Welcome reception Micronova Tietotie 3 Espoo							
18:45-19:00								
19:00-19:15								
19:15-20:00				Dinner Restaurant Walhalla Suomenlinna sea fortress Helsinki				
20:00-21:00								
21:00-21:30								
21:30-				Return trip with Suomenlinna ferries or water buses (own expense)				

Presentations

- **contributed talk** is 12 min + 3 min
- **invited talk** is 25 min + 5 min
- **plenary talk** is 40 min + 5 min

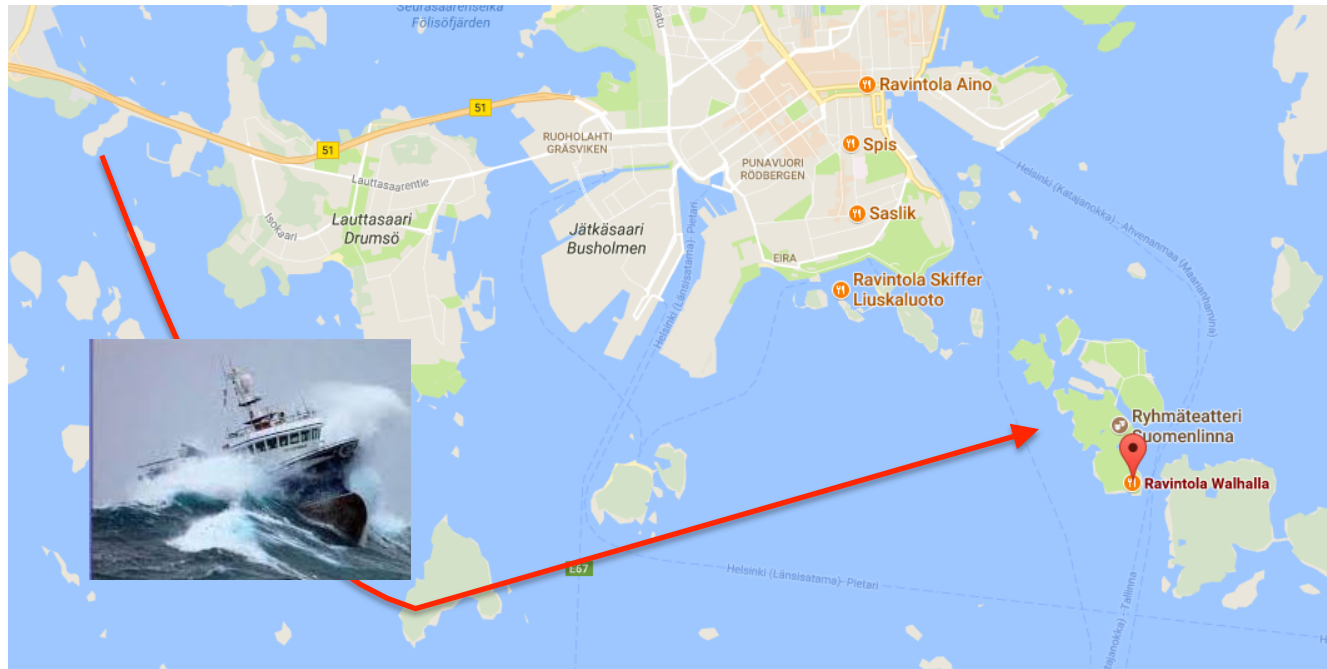
- **Session 1:** Posters #1-47 Saturday 17:15-19:15
- **Session 2:** Posters #48-91 Sunday 17:00-19:00
- **Ensure** to *dismount* your poster after your poster session

Conference dinner

- Sea fortress Suomenlinna (Sveaborg)
 - = Finnish castle (Swedish castle)
 - World Heritage Site

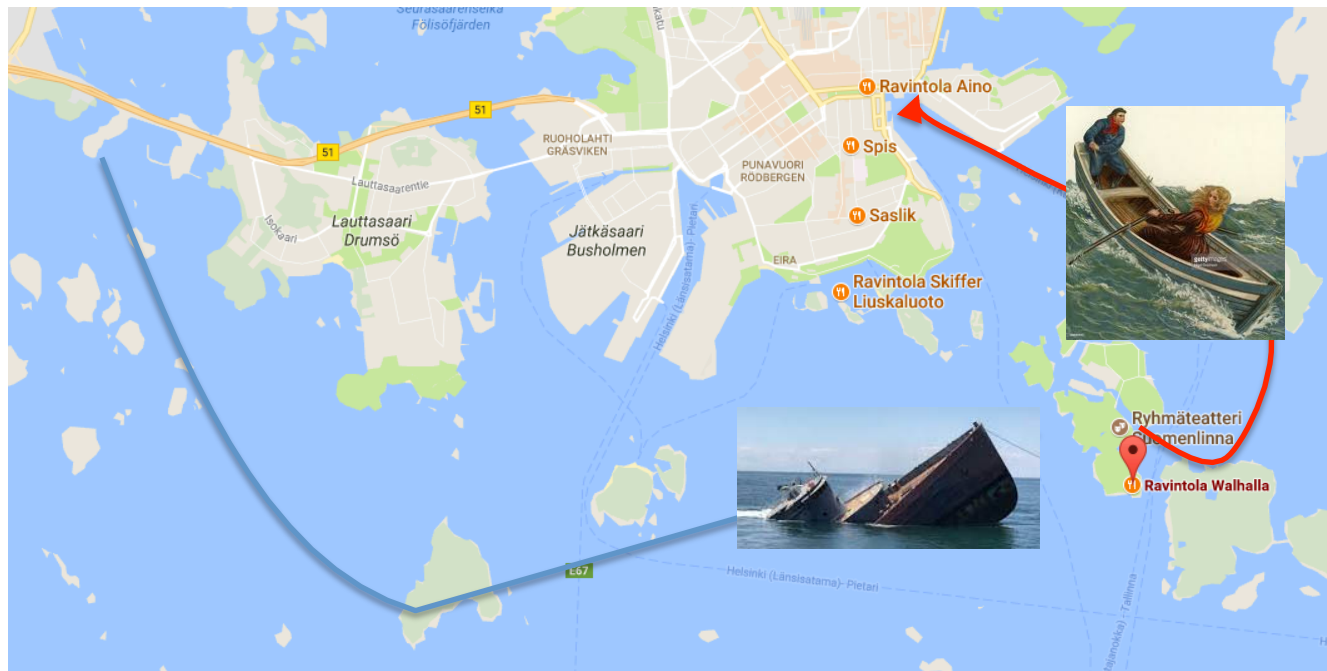


Private boat trip departing 17:15 on Monday Aug 7



Conference dinner

- Arrange return yourself!
- Last (public) ferry departs 23:00 (confirm by yourself)



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VETENSKAPLIGA SAMFUNDENS DELEGATION
FEDERATION OF FINNISH LEARNED SOCIETIES