

icsc International **2014** Cycling Safety Conference

18-19 NOVEMBER 2014

WELCOME TO GOTHENBURG, SWEDEN

FINAL PROGRAM

SAFER
VEHICLE AND TRAFFIC SAFETY CENTRE AT CHALMERS

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Welcome to the 3rd International Cycling Safety Conference, ICSC2014, on 18-19 November 2014 at Lindholmen Science Park in Gothenburg, Sweden!

A premium forum for researchers, legislators, politicians, and members of cycling associations, where you will exchange knowledge on cycling safety, extend your network, and discuss new research topics and safety solutions.

All papers submitted for the conference are peer-reviewed by experts in the field. Selected scientific papers from the conference will be published in a special issue of the Safety Science journal.

The conference is organized by SAFER Vehicle and Traffic Safety Centre at Chalmers, Chalmers University of Technology and City of Gothenburg. Partners are SWOV, TNO and TU Delft.



Conference venue

Lindholmen Conference Centre, Lindholmospiren 3-5, 417 56 Gothenburg, Sweden.
Phone: +46 (0)31-764 70 00. Web: www.lindholmen.se

www.icsc2014.eu

DAY 1 TUESDAY NOVEMBER 18, 2014	10.00-11.30	Bike ride – Guided bike tour offered by City of Gothenburg	
	11.00-12.45	Registration, poster set-up, exhibition set-up	
	11.30-12.45	Lunch & Mingling	
	13.00-13.30	PLENARY SESSION - ROOM PASCAL Welcome addresses Keynote: Anneli Hultén, Mayor and Chairman of the City Executive Board, Gothenburg	
	13.30-15.00 PARALLEL SESSIONS	Session 1: Bicycle accidents 1 ROOM PASCAL	Session 2: Interaction between cyclists and drivers ROOM KELVIN
	15.00-15.30	Coffee break in the poster/exhibition area, floor 2	
	15.30-17.00 PARALLEL SESSIONS	Session 3: Bicycle accidents 2 ROOM PASCAL	Session 4: Cycling behaviour ROOM KELVIN
	17.10-17.40	PLENARY SESSION - ROOM PASCAL Info and wrap-up	
	19.00-22:00	Conference Dinner at River Café Restaurant on the pier: Organic dinner buffet	

DAY 2 WEDNESDAY NOVEMBER 19, 2014	08.30-09.00	Coffee in the poster/exhibition area, floor 2	
	09.00-09.30	PLENARY SESSION - ROOM PASCAL Keynote: Tony Grimaldi, CEO, Cycleurope AB Keynote: Peter Kronberg, Safety Director, AB Volvo	
	09.30-10.30 PARALLEL SESSIONS	Session 5: Infrastructures for safe cycling ROOM PASCAL	Session 6: Bicycle helmets: Usage and design ROOM KELVIN
	10.30-11.00	Coffee break in the poster/exhibition area, floor 2	
	11.00-12:30 PARALLEL SESSIONS	Session 7: Electric bicycles ROOM PASCAL	Session 8: Distraction ROOM KELVIN
	12.30-14.00	Lunch. Coffee in the poster/exhibition area, floor 2	
	14.00-15.30 PARALLEL SESSIONS	Session 9: Countermeasures to bicycle accidents ROOM PASCAL	Session 10: Cycling and ageing ROOM KELVIN
	15.30-16.00	Coffee break in the poster/exhibition area, floor 2	
	16.00-17.00 PARALLEL SESSIONS	Session 11: Safety in numbers ROOM PASCAL	Session 12: Bicycle helmets: Safety ROOM KELVIN
	17.00-17.30	PLENARY SESSION - ROOM PASCAL Conclusions Representative from City of Gothenburg Prizes for best poster, paper, and presentation	

PROGRAM: DAY 1 – Tuesday, November 18, 2014

10.00-11.30	Bike ride – Guided bike tour offered by City of Gothenburg
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11.30-12.45	Lunch & Mingling
13.00-13.30	PLENARY SESSION
ROOM PASCAL	Welcome addresses Keynote: Anneli Hultén, Mayor and Chairman of the City Executive Board, Gothenburg
13.30-15.00	PARALLEL SESSIONS
ROOM PASCAL	Session 1: Bicycle accidents 1 Chair: Divera Twisk <ul style="list-style-type: none"> Circumstances of on-road single-vehicle cyclist crashes in the Australian Capital Territory <i>Soufiane Boufous, Transport and Road Safety (TARS) Research, University of New South Wales, Australia</i> Overview of main accident types and parameters in car-to-cyclist accidents in EU for use in AEB-systems test protocol <i>Olaf op den Camp, TNO, The Netherlands</i> Risk factors for bicycle-motor vehicle collisions in Portugal <i>Joao Dias, LAETA, IDMEC, Instituto Superior Técnico, Universidade de Lisboa, Portugal</i> Method to Evaluate the Effectiveness of an Active Safety System for Cyclist Protection <i>Alexandra Fries, AUDI AG, Germany</i> Detailed Description of Bicycle and Passenger Car Collisions Based on Insurance Claims <i>Irene Isaksson-Hellman, If, Sweden</i> Shotgun session <ul style="list-style-type: none"> Influencing factors on safety-enhancing interaction processes between bicyclists and car drivers <i>Elisabeth Füssl, Factum Chaloupka & Risser OG, Austria</i> Pedelecs a new way of mobility in the everyday life of women <i>Manuel Oberlader, Factum OG Traffic and Social Analysis, Austria</i>
ROOM KELVIN	Session 2: Interaction between cyclists and drivers Chair: Marjan Hagenzieker <ul style="list-style-type: none"> Vehicle-bicycle interaction at roundabouts Ary P. Silvano, Traffic and Logistics, Department of Transport Science, Royal Institute of Technology – KTH, Sweden Motor vehicles overtaking cyclists on two-lane rural roads: analysis on relative speed and lateral clearance <i>Carlos Llorca, Universitat Politècnica de Valencia, Spain</i> Drivers' gap acceptance in front of approaching bicycles - Effects of bicycle speed and bicycle type <i>Tibor Petzoldt, TU Chemnitz, Germany</i> Determining and Strengthening the Visual Cues for Predicting Cyclist Intent in Traffic <i>Paul Hemeren, University of Skövde, Sweden</i> The Zebra Crossing Game <i>Torkel Bjørnskau, TØI Institute of Transport Economics, Norway</i> Shotgun session <ul style="list-style-type: none"> Traffic conflict analysis using an instrumented bicycle on cycle tracks of Valencia <i>Carlos Llorca, Universitat Politècnica de Valencia, Spain</i> What Makes German Cyclists Angry on the Bike? <i>Michael Oehl, Leuphana University of Lüneburg, Germany</i>
15.00-15.30	Coffee break in the poster/exhibition area, floor 2

15.30-17.00	PARALLEL SESSIONS
ROOM PASCAL	<p>Session 3: Bicycle accidents 2</p> <p>Chair: Olaf op den Camp</p> <ul style="list-style-type: none"> • Shoulder Injuries in Single Bicycle Accidents <i>Helena Stigson, Folksam Research, Sweden</i> • Pre-crash motion and conditions of bicyclist-to-car crashes in Sweden <i>Rikard Fredriksson, Autoliv Research, Sweden</i> • Typology of bicycle crashes based on a survey of injured cyclists from a road trauma registry does behavior impact the configuration of crashes? <i>Alice Billot-Grasset, IFSTTAR – TS2 – UMRESTTE, France</i> • Analysis of Cyclist Kinematics in Car Impacts considering different Vehicle Fronts, Collision Speeds, Body Heights and Impact Constellations <i>Michael Hamacher, fka - Forschungsgesellschaft Kraftfahrwesen mbH Aachen, Germany</i> • Costs for society related to major bicycle accidents in Flanders (Belgium) <i>Bas de Geus, Vrije Universiteit Brussel, Belgium</i> <p>Shotgun session</p> <ul style="list-style-type: none"> • Preliminary results of a retrospective and prospective study of bicycle accidents in adolescents <i>Jef Vanparijs, Faculty of Physical education and Physiotherapy, Vrije Universiteit Brussel, Belgium</i> • Bikeability- Cycling for the 21st Century in Britain <i>Daniel Carlin, Department for Transport, United Kingdom</i>
ROOM KELVIN	<p>Session 4: Cycling behaviour</p> <p>Chair: Robert Thomson</p> <ul style="list-style-type: none"> • Cycling under the influence of alcohol <i>Dick de Waard, University of Groningen, The Netherlands</i> • Determinants and outcomes of cyclists' choice of lane position <i>Julie Hatfield, Transport and Road Safety (TARS) Research, UNSW, Australia</i> • The risk of bunch riding among sport cyclists on public road infrastructure <i>Gert Jan Wijnhuizen, SWOV, The Netherlands</i> • Braking tests on a variety of urban bicycles <i>Christopher Morris, Pedal Depot bike coop, Vancouver, Canada</i> <p>Shotgun session</p> <ul style="list-style-type: none"> • Bike-Sharing: Is Safety an Issue Adversely Affecting its Potential for Being Embraced by Urban Societies? <i>Alexandros Nikitas, Chalmers University of Technology, Sweden</i> • The Other 99% <i>Robert van der Plas, Cycle Publishing, USA</i> • Modelling of Cyclist Acceleration Behavior Using Naturalistic Data <i>Xiaoliang Ma, Division of Traffic and Logistics, KTH Royal Institute of Technology, Sweden</i>
17.10-17.40	PLENARY SESSION
ROOM PASCAL	Info and wrap-up
19.00-22.00	<p>Conference Dinner at River Café Restaurant on the pier: Organic dinner buffet</p> <p>Address: Dockpiren Eriksberg, www.rivercafe.se</p>

PROGRAM: DAY 2 - Wednesday, November 19, 2014

08.30-09.00	Coffee in the poster/exhibition area
09.00-09.30	PLENARY SESSION - ROOM PASCAL Keynote: Tony Grimaldi, CEO, Cycleurope AB Keynote: Peter Kronberg, Safety Director, AB Volvo
09.30-10.30	PARALLEL SESSIONS
ROOM PASCAL	Session 5: Infrastructures for safe cycling Chair: Paul Shepers <ul style="list-style-type: none"> Roundabout design and cycling safety <i>Narelle Haworth, Centre for Accident Research and Road Safety-Queensland, Australia</i> Skid Resistance - Important for Cycling Safety <i>Anna Niska, Swedish National Road and Transport Research Institute, Sweden</i> Developments of shared walking-cycling infrastructure in Singapore <i>Yiik Diew Wong, Nanyang Technological University, Singapore</i> Shotgun session <ul style="list-style-type: none"> Bicycle- and Bicycle helmet use by cyclists in Athens <i>Georgia Tzamalouka, Lab of Health & Road Safety (LaHeRS), Technological Educational Institute (TEI) of Crete, Greece</i> A Global Review of Current Instrumented Probe Bicycle Technology and Research <i>Gordon Lovegrove, University of British Columbia, Canada</i>
ROOM KELVIN	Session 6: Bicycle helmets: Usage and design Chair: Dietmar Otte <ul style="list-style-type: none"> Cycling collisions in Germany. Alcohol use, helmet use and head injuries <i>Chiara Orsi, Centre of Study and Research on Road Safety, University of Pavia, Italy</i> Helmet use and injuries in children's bicycle crashes in the Gothenburg region <i>Eva Olofsson, Sahlgrenska Academy, University of Gothenburg/Skaraborgs Hospital Skövde, Sweden</i> The Combined Effect of Speed Reduction, Vehicle Frontal Design, Autonomous Emergency Braking and Helmet Use in Reducing Real Life Bicycle Injuries <i>Maria Ohlin, Chalmers University of Technology, Sweden</i> Shotgun session <ul style="list-style-type: none"> Prevalence, patterns and reported preferences in helmet use among bicyclists in the region of Crete <i>Maria Papadakaki, Lab of Health & Road Safety TEI of Crete, Greece</i> Why Cycling Vanished in the City of Erbil Kurdistan, A Comprehensive Evaluation of Cycling in Erbil <i>Sarbaz Othman, University of Kurdistan, Irak</i> Fatal cycling accidents in the Czech Republic: factors and causes of death <i>Michal Bíl, Transport Research Centre, Brno, Czech Republic</i>
10.30-11.00	Coffee break in the poster/exhibition area, floor 2

11.00-12.30	PARALLEL SESSIONS
ROOM PASCAL	<p>Session 7: Electric bicycles</p> <p>Chair: Marco Dozza</p> <ul style="list-style-type: none"> The German Naturalistic Cycling Study- Comparing cycling speed of riders of different e-bikes and conventional bicycles <i>Katja Schleinitz, Technische Universität Chemnitz, Germany</i> The German Pedelec Naturalistic Cycling Study - Overview of Results <i>Tina Gehlert, German Insurers Accident Research (UDV), Germany</i> Electric bikes in Australia: safety gains and some new concerns <i>Marilyn Johnson, Monash University, Australia</i> Analysis of naturalistic cycling data: Do cyclists on e-bikes behave differently than cyclists on traditional bikes? <i>Giulio Bianchi Piccinini, Chalmers University of Technology, Sweden</i> <p>Shotgun session</p> <ul style="list-style-type: none"> Factors associated to cycling accidents in the elderly population <i>Carola Engbers, Roessingh Research & Development, The Netherlands</i> Better Bicycle Helmets for Commuters - Evaluation of Ventilation <i>Kalev Kuklane, Lund University, Sweden</i>
ROOM KELVIN	<p>Session 8: Distraction</p> <p>Chair: Dick DeWaard</p> <ul style="list-style-type: none"> Bicyclists' adaptation strategies when conducting self-paced vs. system-paced smartphone tasks in real traffic <i>Christer Ahlström, Swedish National Road and Transport Research Institute (VTI), Sweden</i> Cyclists and traffic sounds: the results of an internet survey <i>Agnieszka Stelling-Konczak, SWOV Institute for Road Safety Research, The Netherlands</i> On the usage of portable electronic devices: a qualitative study of cyclist behaviour <i>Maria Nilsson, Viktoria Swedish ICT, Sweden</i> Cyclists' use of Mobile IT in Sweden - usage and self-reported behavioural compensation <i>Annika Nilsson, Trivector Traffic, Sweden</i> <p>Shotgun session</p> <ul style="list-style-type: none"> Factors contributing to pedelec crashes in the Netherlands <i>N. Kováčsová, TU Delft, The Netherlands</i> Cross-wind effect on bicycle with or without rider control <i>N. Sharma, TU Delft, The Netherlands</i>
12.30-14.00	<i>Lunch. Coffee in the poster/exhibition area, floor 2</i>
14.00-15.30	PARALLEL SESSIONS
ROOM PASCAL	<p>Session 9: Countermeasures to bicycle accidents</p> <p>Chair: Irene Isaksson-Hellman</p> <ul style="list-style-type: none"> Improving Cyclists' Visibility with a Novel Lighting System <i>David Shinar, Ben Gurion University of the Negev, Israel</i> The Dutch road to a high level of cycling safety <i>Paul Schepers, Ministry of Infrastructure and the Environment, The Netherlands</i> Using Instrumented Probe Bicycles to Develop Bicycle Safety and Comfort Prediction Models <i>Gordon Lovegrove, University of British Columbia, Canada</i> A metre matters: combining health promotion frameworks to create population level behaviour change and improve cyclist safety in Australia <i>Marilyn Johnson, Amy Gillett Foundation, Monash University, Australia</i> Using Smartphones to Collect Naturalistic Cycling Data and Automatically Detect Cycling Accidents <i>Stefan Candefjord, Chalmers University of Technology, Sweden</i>

ROOM KELVIN	<p>Session 10: Cycling and ageing</p> <p>Chair: Arend Schwab</p> <ul style="list-style-type: none"> • A naturalistic study of child and adult bicycling behaviors and risk exposure <i>Cara Hamann, University of Iowa, USA</i> • To bike or not to bike? Physical strength and short term memory influence cycling kinematics <i>Rosemary Dubbeldam, Roessingh Research & Development, The Netherlands</i> • Supporting elderly cyclist with rear-view assistance <i>Carola Engbers, Roessingh Research & Development, The Netherlands</i> • Protecting or harming oneself: Options of older cyclists to cycle safely <i>Carmen Hagemeister, TU Dresden, Germany</i> • The different ways to get on and off a bicycle for young and old <i>Rosemary Dubbeldam, Roessingh Research & Development, The Netherlands</i>
15.30-16.00	Coffee break in the poster/exhibition area, floor 2
16.00-17.00	PARALLEL SESSIONS
ROOM PASCAL	<p>Session 11: Safety in numbers</p> <p>Chair: Gordon Lovegrove</p> <ul style="list-style-type: none"> • Safety-in-numbers: a systematic review and meta-analysis of evidence <i>Rune Elvik, Institute of Transport Economics, Norway</i> • Global bike share: What the data tells us about safety <i>Elliot Fishman, Utrecht University, The Netherlands</i> • Exploring the mechanisms behind the Safety in Numbers Effect: A behavioural analysis of interactions between cyclists and car drivers in Norway and Denmark <i>Maartje De Goede, TNO, The Netherlands</i> • Safety in Numbers - combining a panel design and cross cultural survey to examine the suggested mechanisms <i>Aslak Fyhri, Institute of Transport Economics, Norway</i>
ROOM KELVIN	<p>Session 12: Bicycle helmets: Safety</p> <p>Chair: David Shinar</p> <ul style="list-style-type: none"> • Importance of the Bicycle Helmet Design and Material for the Outcome in Bicycle Accidents <i>Madelen Fahlstedt, Royal Institute of Technology, Sweden</i> • Towards advanced bicycle helmet test method <i>Remy Willinger, University Strasbourg, France</i> • A new thermal head manikin for the development of helmet designs with increased thermal comfort <i>Natividad Martinez, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland</i> • Developing an international survey of bicycle and helmet usage <i>Narelle Haworth, Centre for Accident Research and Road Safety-Queensland, Australia</i>
17.00-17.30	PLENARY SESSION
ROOM PASCAL	<p>Conclusions</p> <p>Representative from City of Gothenburg</p> <p>Prizes for best poster, paper, and presentation</p>

Abstracts and Reviewed Papers are included in the conference proceedings.

EXHIBITORS & SPONSORS:



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GENERAL CONFERENCE INFORMATION

Presentations/presenters

Speakers must download their presentations 30 minutes before session in their session room with their session chair. After the conference, we would like to publish the ppt-presentations on the web. Please leave a public version of your ppt before leaving the conference.

Proceedings

All presentations, reviewed papers, abstracts and posters will be available on the website after the conference.

Lunch and coffee breaks

Lunch is served outside the conference rooms. Coffee is served in the poster/exhibition area in Open Arena, floor 2.

Conference Dinner

Restaurant River Café is located on a pier with a beautiful view over the river and city. An organic buffet with organic wine will be served!

The conference dinner starts at 19.00 and is included in the registration fee.



Getting there: Take *bus* no 16 from "Nordstan" (Central station) to Eriksbergstorget (leaves at 18:34) or from "Lindholmen" (leaves at 18:41). The *ferry* takes you there from "Lilla Bommens Hamn" (leaves at 18:30) or Lindholmspiren (leaves at 18:41). It is a 30 minutes *walk* from Lindholmen. See maps on next page.

Address: Restaurant River Café, Dockpiren Eriksberg, Gothenburg. Phone: +46 (0)31-51 00 00, www.rivercafe.se

Closest bus stop: Eriksbergstorget

Closest ferry stop: Eriksbergs färjeläge

Public transport in Gothenburg

In Gotheburg, "Västtrafik" is the company which runs the public transport. In the shops "*Pressbyrån*" or "*7 Eleven*", you can by 24 hrs or 72 hrs cards, which gives you free journeys with trams and public buses. There are also single journey and 5-journey cards. www.vasttrafik.se

Taxi

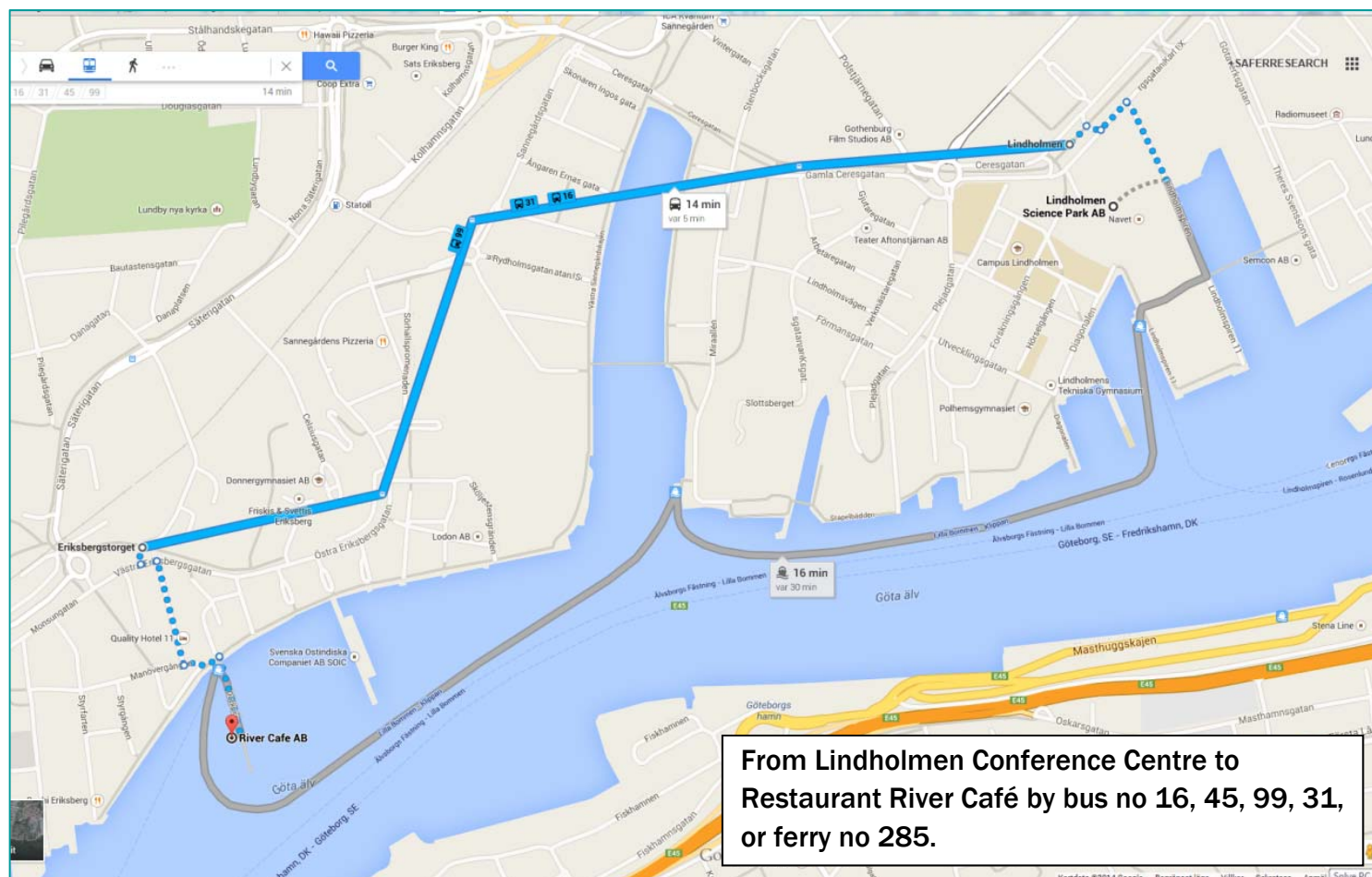
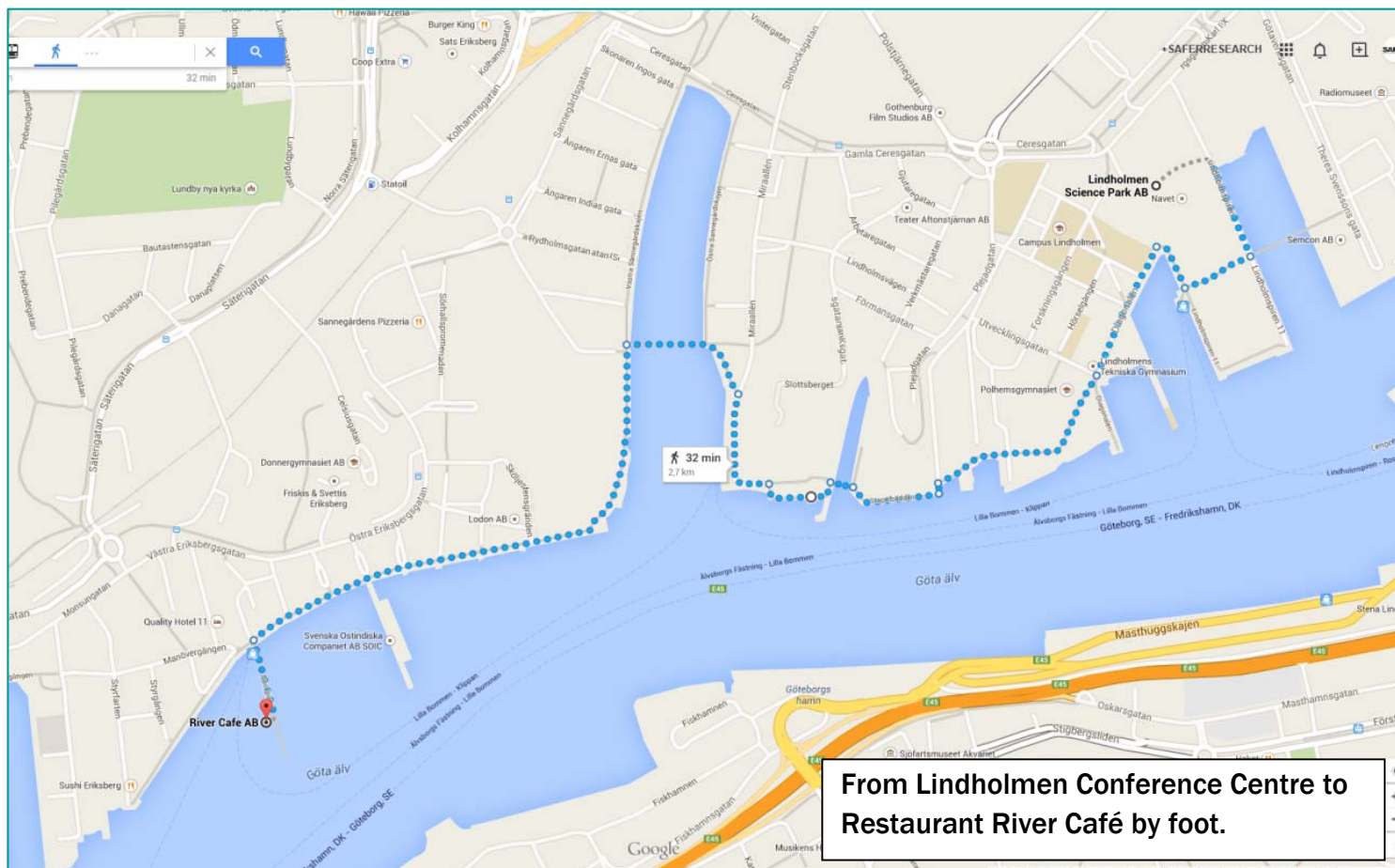
If you want to order a taxi, the reception/Visitors Centre outside the conference venue will help you. They are open 07.30-18.00. Pick up address: Lindholmspiren 3-5 (outside the shop Pressbyrån).

Taxi Göteborg: +46 (0)31-650 000, *Taxi Kurir:* +46 (0)31-27 27 27

Internet access

Lindholmen Conference Centre provides a free hotspot (Wi-Fi) for visitors:

Network name: CHSRAB-C Password: ChalmersKonferens





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