

# Welcome to Gothenburg!

LIGHTer Membership programme invites you to LIGHTer International Conference 2017 in Gothenburg, Sweden. The main theme of the conference is "Future lightweight solutions for multi-sectorial industrial use".

LIGHTer is a leading multi-sectorial lightweight arena, that effectively creates competitiveness on behalf of Swedish industry. A new generation of lightweight solutions will need to combine the development of materials, processes and design in an integrated way. Several industrial sectors face the same challenges.

Research groups need to work with a common focus and chains of collaboration need to be strengthened at all levels – between industrial sectors, between OEMs and their suppliers, between institutes and universities, and between authorities and stakeholders within the field.

The conference includes four main sessions with different approach concerning lightweight solutions.

I am looking forward to meeting you in Gothenburg!



**CECILIA RAMBERG**  
Director of LIGHTer

## Location/Accommodation

The conference will take place at Arken Hotel & Art Garden Spa located close to both Volvo Cars, where the field trip will be, and the port of Gothenburg. Just 15 minutes from the city centre and with the beautiful nature right outside. With everything under one roof, you can quickly and easily make your way between the conference facilities, restaurant and hotel.

## Read more and make your registration at [www.lighterarena.se](http://www.lighterarena.se)

Conference fee: (excl VAT) € 690 (SEK 6 900)

LIGHTer member: € 550 (SEK 5 500)

PhD student: € 160 (SEK 1 600) (No early bird discount)

Please register before 8 November

## Further information

Cecilia Ramberg  
Director of LIGHTer  
[cecilia.ramberg@swerea.se](mailto:cecilia.ramberg@swerea.se)  
Phone: +46 (0)31 706 60 52

Jenny Kierkemann  
Conference Coordinator  
[jenny.kierkemann@swerea.se](mailto:jenny.kierkemann@swerea.se)  
Phone: +46 (0)31 706 61 40



You are invited



# LIGHTer

Hosted by Swerea



# A conference in four sessions

LIGHTer International Conference, **22-23 November 2017**, is a two day conference, lunch-to-lunch including conference dinner and an optional field trip at the end of day two.



**Gothenburg is the heart** of western Sweden where leading lightweight products such as cars, trucks, aircraft engines, marine vessels and offshore- and shipping equipments are produced. The conference venue will be Arken Hotel & Art Garden Spa in Gothenburg.

## **Session A 50% lighter with lower costs**

This session focuses on how lower costs contribute to more lightweight solutions. Examples of materials development, design and manufacturing as well as how digitalization can lead to new business models and new business logic based on lightweight perspective, will be presented.

## **Session B 50% lighter with shorter development times**

This session focuses on design strategies for shortened design time of lightweight components. The objective is to provide examples on recent developments in areas such as product development methodologies, methods for virtual prototyping as well as use of improved numeric simulation methodologies and materials modelling.

## **Session C 50% lighter using mixed materials**

This session focuses on achieving optimal performance by combining different materials in lightweight components. Key challenges are efficient and reliable joining without losing product properties, possibilities to predict product properties by simulation and calculations as well as strategies for circular manufacturing.

## **Session D 50% lighter using improved properties and innovative solutions**

This session focuses on lightweight innovations and related research activities that provide substantial weight reductions on the systems level. Such innovations and research activities may comprise e.g. multifunctional lightweight materials, integrated structural designs and novel hybrid material concepts, e.g. composites that yield.

For information  
and updated  
programme details

[www.lighterarena.se](http://www.lighterarena.se)

LIGHTer PhD  
course examination  
21 November 2017

## Invited keynote speakers

Keynote speakers specially invited to LIGHTer International Conference 2017.

### **ANDREAS GRAICHEN**

Group Manager  
Additive Manufacturing Centre of Competence  
Siemens Industrial Turbomachinery AB, Sweden

### **OLA ISAKSSON**

Systems Engineering and Engineering Design  
Department of Industrial and Materials Science  
Chalmers University of Technology

### **ÅSA LIDÉN**

Material & Innovation Leader for Metal  
IKEA of Sweden, Sweden

### **PETER LINDE**

Research and Technology Engineer, Non-Specific  
Airframe Architecture & Integration  
Airbus Operations GmbH, Germany