## Instructors

**Dr. Jason Forman**University of Virginia

Dr. Francisco
Lopez-Valdes
Comillas University

**Dr. Matthew Panzer**University of Virginia

Dr. Bengt Pipkorn

Autoliv

**Dr. Mirko Junge**Volkswagen AG

Dr. Jolyon Carroll Dr. Madelen Fahlstedt Mips Dr. Lotta
Jakobsson
Volvo Cars

Dr. Maria Segui-Gomez Consultant **Dr. Mats Svensson**Chalmers University

# INFORMATION

**Contact: Malin Levin** 

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## REGISTRATION

Includes five days of lectures, coffee and lunch, visits to Volvo Cars and Autoliv, and course dinner

Early Registration (until 2 April 2023)

Professional – 12 000 SEK Student – 4 000 SEK

Standard Registration (after 2 April 2023)

Professional – 14 000 SEK Student – 5 000 SEK

Fees are excl VAT.



12-16 June 2023
SAFER
Lindholmen Science Park
Gothenburg, Sweden



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## 8th International Advanced Course on Injury Biomechanics

12-16 June 2023 Gothenburg, Sweden Hosted by SAFER



# WELCOME

The subjects covered this week will include historical, contemporary, and emerging biomechanical science, injury risk functions, test devices, and regulations in car safety and sport.

We are targeting the course towards graduate students, safety engineers, researchers, biomedical engineers, and those interested in injury biomechanics.

The unique aspects of the course will involve active and open discussion with researchers and lecturers, interactive crash case reviews, a visit to crash test facilities, and networking with others within your field.

You will gain the most benefit from this course by actively engaging with your fellow course participants and instructors during the lectures, breaks, and lunches. This is a relaxed and friendly environment!



7<sup>th</sup> International Advanced Course on Injury Biomechanics Comillas University, Madrid, Spain

## AGENDA

## D<sub>AY 1</sub>

8:30	Course Introduction
9:00	Intro to Injury Biomechanics
10:45	Injury Scales
11:30	<b>Epidemiology and Field Data</b>
12:15	Lunch
13:45	Tissue Biomechanics
14:45	<b>PMHS Testing and Dummies</b>
16:00	Human Body Models
16:45	Injury Criteria

### D<sub>AY 2</sub>

8:30	Crash Investigation Part 1
9:15	Head and Brain
10:45	Thorax and Elderly
12:15	Lunch
13:45	Spine
15:30	Upper Extremities
16:30	Crash Investigation Part 2

#### $D_{AY3}$

8:30	Crash Investigation Part 3
9:15	Abdomen
10:45	Pelvis and Obesity
12:15	Lunch
13:45	Lower Extremities
15:30	Volvo Cars Factory Tour

### D<sub>AY 4</sub>

0.50	Crash investigation rait +
9:30	Restraint Systems
10:45	<b>US Vehicle Testing Programs</b>
11:15	<b>EU Vehicle Testing Programs</b>
12:15	Lunch
13.00	Autoliv Crash Lab Tour

Course Dinner

Crash Investigation Part 1

#### D<sub>AY 5</sub>

18:00

AY 5	
9:00	Pediatric Biomechanics
9:45	Pediatric Restraint Systems
10:45	Helmet Safety
11:30	PTW Safety
12:15	Lunch
13:45	New Biomechanics Research
14:30	Population Diversity
15:15	Wrap-Up