

## Invitation to technical PhD project presentations in the course examination of LIGHTer – Lightweight materials and design, 6hp

The technical PhD project presentations and examination seminar is a one-day event on the 19<sup>st</sup> of November 2020. The event will be held on-line.

The course aims at giving PhD-students within the lightweight structures and material in Sweden a broad overview of the subject area. It give theoretical foundations in a wide perspective on materials, structural concepts, manufacturing processes, analysis and design methods, and applications of these in a true industrial context – all with focus on lightweight.

The course has been given during 10 days, divided into five two-day occasions and one additional examination occasion. During the examination all PhD-students present their research in an industrial context and how it can contribute to the LIGHTer agenda (see examination in the course description).

The examination seminar is open to researchers and persons from the industry with interest in lightweight technology.

### Program 19 November

09.45-10.00 Time to join using Zoom and registration

10.00-12.00 Ph.D. project and course examination presentations (max 15 min presentations and additional 5 min questions)

10.00	Introduction to the course examination, Prof. Pär Jonsén, Luleå University of Technology
10.10	Sri Bala Aditya, <i>Nucleation control in laser powder bed fusion (L-PBF) of ferritic steels</i> , Chalmers
10.30	Camille Pauzon, <i>Process atmospheres for Laser-Powder Bed Fusion</i> , Chalmers
10.50	Simon Jonsson, <i>Towards light weight and high crash resistance with the next generation AHSS</i> , LTU
11.10	<i>Break</i>
11.20	Kaveh Torkashvand, <i>Tribological behaviour of thermal spray cermet composite coatings and its relevance to the LIGHTer agenda</i> , HV
11.40	Fredrik Larsson, <i>Use thick steel sheets to reduce weight?</i> , LTU

12.00-13.00 Lunch for the PhD students.

13.00	Marcus Johansen, <i>Carbon fibre microstructure for structural battery composites</i> , Chalmers
13.20	Gustav Hultgren, <i>Effect of topographic variation in fatigue assessment of welded joints</i> , KTH
13.40	<i>Break</i>
13.50	Adrien Da Silva, <i>The effects of recoil pressure in laser-based Additive Manufacturing</i> , LTU
14.10	Olle Sandin, <i>Numerical modelling of edge cracking in AHSS</i> , LTU
14.30	Anok Babu Nagaram, <i>Development of full density PM steels using novel routes</i> , Chalmers

14.50-15.10 Coffee

15.10-16.20 Ph.D. project and course examination presentations (max 15 min presentations and additional 5 min questions)

15.10	Bharat Mehta, <i>Development of high strength Aluminium alloys for laser-based powder bed fusion</i> , Chalmers
15.30	Rhodel Bengtsson, Uppsala U
15.50	<i>Break</i>
16.00	Marie Hartwig, Uppsala U
16.20	Short summary and end of the day

## Location

The examination will be held on-line using Zoom. **Use the following link to attend the examination:**

Topic: Examination of the PhD course on lightweight within LIGHTer PhD Network

Time: Nov 19, 2020 09:00 AM Belgrade, Bratislava, Ljubljana

Join from PC, Mac, Linux, iOS or Android: <https://chalmers.zoom.us/j/66212414776>

Password: 971509

Or iPhone one-tap :

Sweden: +46850500828,,66212414776# or +46850500829,,66212414776#

Or Telephone:

If you have problems with +46 7 6692 0434 in Sweden please dial +46 8 4468 2488 instead.

*Utfärdare/From**Dokumentnamn/Memo**Datum/Date*

LIGHTer PhD network

PhD course examination

20-11-19

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Dial(for higher quality, dial a number based on your current location):

Sweden: +46 8 5050 0828 or +46 8 5050 0829 or +46 8 5052 0017 or +46 850 539  
728 or +46 8 4468 2488 or +46 8 5016 3827

Meeting ID: 662 1241 4776

Password: 971509

International numbers available: <https://chalmers.zoom.us/j/66212414776>

Or an H.323/SIP room system:

H.323: 109.105.112.236 or 109.105.112.235

Meeting ID: 662 1241 4776

Password: 971509

SIP: [66212414776@109.105.112.236](mailto:66212414776@109.105.112.236) or [66212414776@109.105.112.235](mailto:66212414776@109.105.112.235)

Password: 971509