Session Assigning Manager

Submitted Abstracts

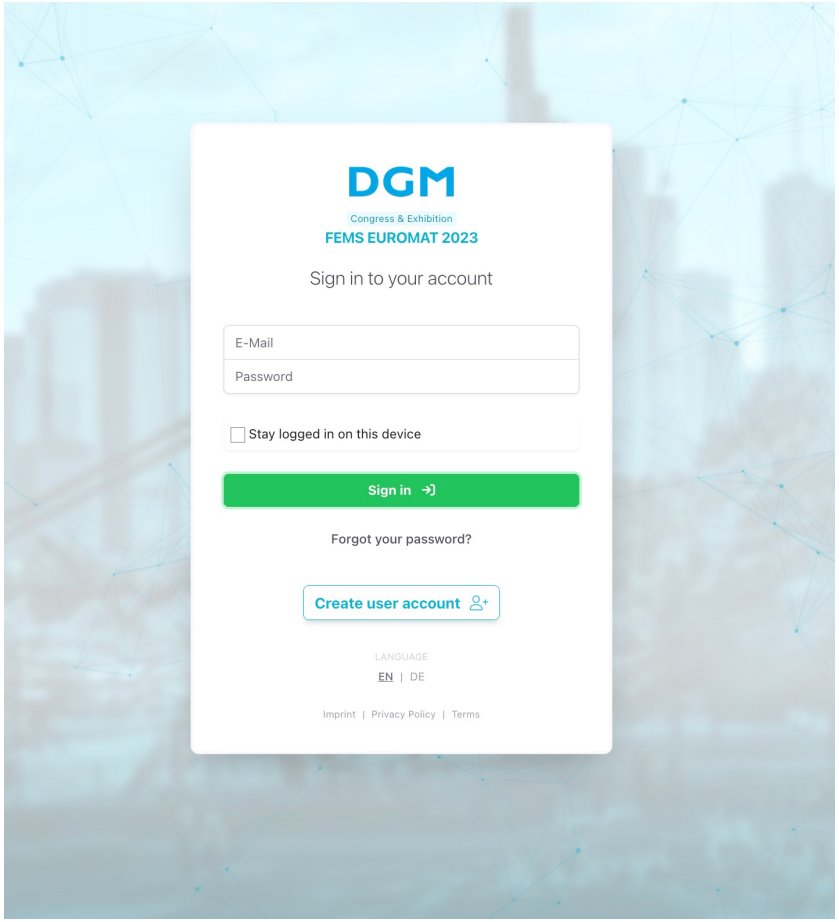
You can find the preliminary program structure on the conference homepage.

https://dgm.de/euromat/2023/program/scientific-program

Access to the Assigning Manager

https://dgm.inventum.de/assigning/fb1618d1-17f4-40eb-938a-4cfbf16c4613?_LANG=en

Session Assigning Manager



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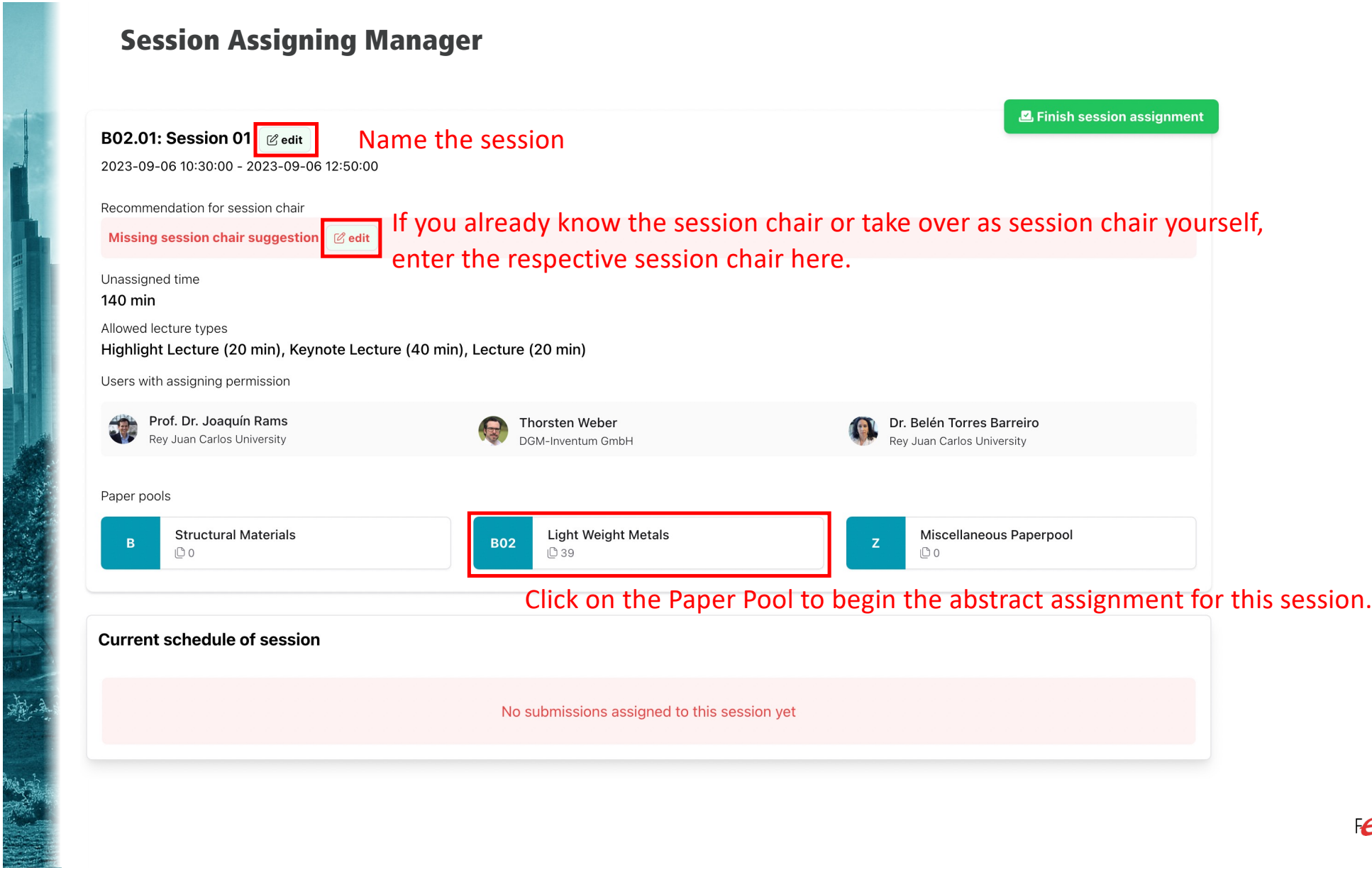
Session Assigning Manager

FEMS EUROMAT 23 | Event Sessions | Thorsten Weber

EVENT SESSIONS	UNASSIGNED TIME	START	END	ASSIGNMENT SUBMITTED
B02.01: Session 01 DEADLINE: 2023-04-26 FEMS EUROMAT 2023	140 min	2023-09-06 10:30:00	2023-09-06 12:50:00	
B02.02: Session 02 DEADLINE: 2023-04-26 FEMS EUROMAT 2023	100 min	2023-09-06 14:50:00	2023-09-06 16:30:00	
B02.03: Session 03 DEADLINE: 2023-04-26 FEMS EUROMAT 2023	120 min	2023-09-06 17:00:00	2023-09-06 19:00:00	
B02.04: Session 04 DEADLINE: 2023-04-26 FEMS EUROMAT 2023	140 min	2023-09-07 10:30:00	2023-09-07 12:50:00	
B02.05: Session 05 DEADLINE: 2023-04-26 FEMS EUROMAT 2023	100 min	2023-09-07 14:50:00	2023-09-07 16:30:00	
B02.06: Session 06 DEADLINE: 2023-04-26 FEMS EUROMAT 2023	120 min	2023-09-07 17:00:00	2023-09-07 19:00:00	

This is the overview of the sessions assigned to your symposia. Click on a session to assign abstracts to it.

Session Assigning Manager



Session Assigning Manager

ABSTRACT	SUBMISSION FOR
Lecture #1740 online (0) **Assessment of low and high cycle fatigue behaviour of the PBF-LB AlSi7Mg alloy in the as-built and heat-treated conditions: influence of defects and microstructural features** Tonelli, L. (Speaker)[1]; Liverani, E.[1]; Morri, A.[1]; Fortunato, A.[1]; Ceschini, L.[1] [1]Alma Mater Studiorum - University of Bologna	B02: Light Weight Metals FEMS EUROMAT 2023
Lecture #47 on site (0) **Benefits of PEO coatings on Additively Manufactured Magnesium** Sharma, A. (Speaker)[1]; Zerrer, J.[1]; Buling, A.[1] [1]ELB – Eloxalwerk Ludwigsburg Helmut Zerrer GmbH	B02: Light Weight Metals FEMS EUROMAT 2023
Lecture #916 on site (0) **Challenges and solutions for Nanoparticle reinforced lightweight metal composites: an overview** Li, Q. (Speaker)[1]; Xu, Z.[2]; Shaffer, M.[2]; Zaiser, M.[3] [1]Department of Aeronautics, Imperial College London; [2]Imperial College London; [3]University of Erlangen-Nuremberg, Fuerth	B02: Light Weight Metals FEMS EUROMAT 2023
Lecture #638 on site (0) **Characterization and Modelling of L12 Dispersoid Precipitation in 5XXX Aluminium Alloys with Additions of Zirconium, Scandium, Erbium, and Yttrium** Hughes, N. (Speaker)[1]; Robson, J.[1]; Fellowes, J.[1] [1]The University of Manchester	B02: Light Weight Metals FEMS EUROMAT 2023
Lecture #890 on site (0) **Characterization at room and high temperature of Scalmalloy® lattice structures produced by PBF-LB** Lagalante, I. (Speaker)[1]; Martucci, A.[1]; Aversa, A.[1]; Lombardi, M.[1]; Manfredi, D.[1] [1]Politecnico di Torino	B02: Light Weight Metals FEMS EUROMAT 2023

Select the abstract you want to assign.

FEMS EUROMAT 23

Session Assigning Manager

Assign submission to session

B02.01: Session 01

Unassigned time

140 min

Allowed lecture types

Highlight Lecture (20 min), Keynote Lecture (40 min), Lecture (20 min)

Assign submission to session

Click on "Assign submission to session" to add the abstract to the session.

SUBMISSION FOR

B02: Light Weight Metals

CHANGE PAPER POOL

#1740 online

Lecture

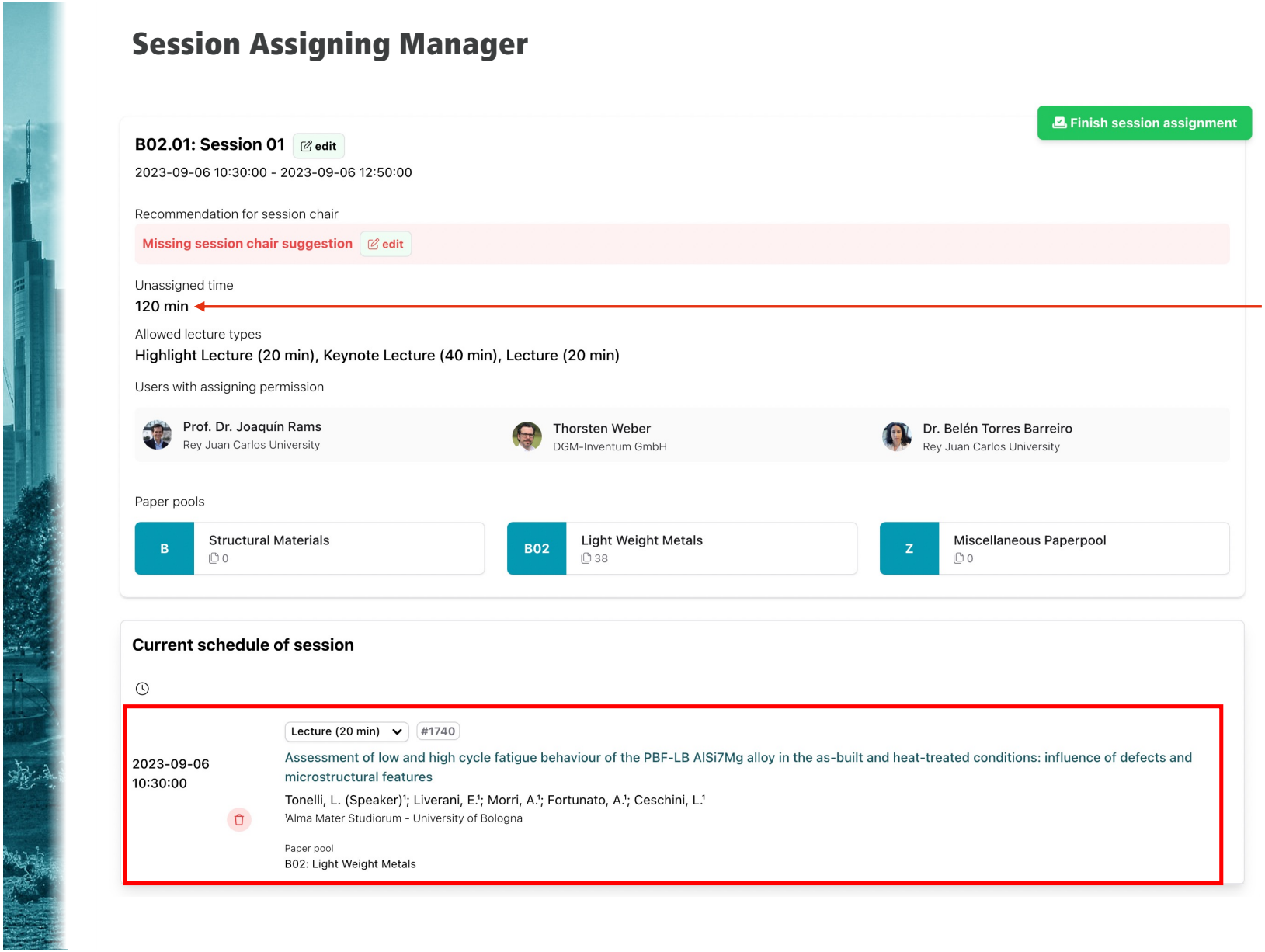
Assessment of low and high cycle fatigue behaviour of the PBF-LB AlSi7Mg alloy in the as-built and heat-treated conditions: influence of defects and microstructural features

(0)

SHORT ABSTRACT

Conventional hypoeutectic AlSi7Mg cast alloys (i.e. A356, A357 and variations) are widely used for structural castings in the automotive industry (e.g. engine blocks, cylinder heads) due to their low density and high specific strength that promote mass and consumption reduction, in view of a more sustainable mobility. An improved lightweighting can be obtained by combining the use of light metals like AlSi7Mg with topologically optimized designs and produced with innovative additive technologies such as laser-based powder bed fusion (PBF-LB). During their service life, automotive components are subjected to cyclic loading that can lead to fatigue damage and failure. While the fatigue behavior of conventional cast AlSi7Mg alloys is well established, the same is not true for these alloys processed by PBF-LB. The recent literature has proven that PBF-LB can be proficiently applied to AlSi7Mg alloys and most of the published works deal with their static behavior (i.e. hardness and tensile). Therefore, the present work aims at an extensive investigation of the low and high cycle fatigue behavior of the AlSi7Mg (A357) alloy produced by PBF-LB and subjected to tailored post-process

Session Assigning Manager



The abstract is now added to the session. At the top, you will see the remaining time available for the session.

Session Assigning Manager

Current schedule of session

2023-09-06
10:30:00

Lecture (20 min) #1740

Assessment of low and high cycle fatigue behaviour of the PBF-LB AlSi7Mg alloy in the as-built and heat-treated conditions: influence of defects and microstructural features

Tonelli, L. (Speaker)[1]; Liverani, E.[1]; Morri, A.[1]; Fortunato, A.[1]; Ceschini, L.[1]

[1]Alma Mater Studiorum - University of Bologna

Paper pool
B02: Light Weight Metals

2023-09-06
10:50:00

Lecture (20 min) #47

Benefits of PEO coatings on Additively Manufactured Magnesium

Sharma, A. (Speaker)[1]; Zerrer, J.[1]; Buling, A.[1]

[1]ELB – Eloxalwerk Ludwigsburg Helmut Zerrer GmbH

Paper pool
B02: Light Weight Metals

You can change the order of the lectures with the arrows.

2023-09-06
11:10:00

Lecture (20 min) #916

Challenges and solutions for Nanoparticle reinforced lightweight metal composites: an overview

Li, Q. (Speaker)[1]; Xu, Z.[2]; Shaffer, M.[2]; Zaiser, M.[3]

[1]Department of Aeronautics, Imperial College London; [2]Imperial College London; [3]University of Erlangen-Nuremberg, Fuerth

Paper pool
B02: Light Weight Metals

You can remove an abstract from the session using this button. It will then automatically move back into the paper pool.

2023-09-06
11:30:00

Lecture (20 min) #638

Characterization and Modelling of L12 Dispersoid Precipitation in 5XXX Aluminium Alloys with Additions of Zirconium, Scandium, Erbium, and Yttrium

Hughes, N. (Speaker)[1]; Robson, J.[1]; Fellowes, J.[1]

[1]The University of Manchester

Paper pool
B02: Light Weight Metals

Session Assigning Manager

Current schedule of session

2023-09-06
10:30:00

Lecture (20 min) #1740

Highlight Lecture (20 min)
Lecture (20 min)
Keynote Lecture (40 min)

rd high cycle fatigue behaviour of the PBF-LB AlSi7Mg alloy in the as-built and heat-treated conditions: influence of defects and
ures

Liverani, E.[1]; Morri, A.[1]; Fortunato, A.[1]; Ceschini, L.[1]
University of Bologna

Paper pool
B02: Light Weight Metals

2023-09-06
10:50:00

Lecture (20 min) #47

Benefits of PEO coatings on Additively Manufactured Magnesium

Sharma, A. (Speaker)[1]; Zerrer, J.[1]; Buling, A.[1]
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Paper pool
B02: Light Weight Metals

2023-09-06
11:10:00

Lecture (20 min) #916

Challenges and solutions for Nanoparticle reinforced lightweight metal composites: an overview

You can change the type of contribution between „Lecture“, „Higlight Lecture“ and „Keynote Lecture“.
However, we ask you to convert a **maximum** of **one contributions per session** to **Highlight Lecture** and **one contribution per symposium** to **Keynote Lecture.**

Session Assigning Manager

If you are finished with the session assignment, please close the session via the green button on the top right. You will not be able to make any further changes after that.

Finish session assignment

B02.01: Session 01 edit

2023-09-06 10:30:00 - 2023-09-06 12:50:00

Recommendation for session chair

Missing session chair suggestion edit

Unassigned time

60 min

Allowed lecture types

Highlight Lecture (20 min), Keynote Lecture (40 min), Lecture (20 min)

Users with assigning permission


Prof. Dr. Joaquín Rams
Rey Juan Carlos University


Thorsten Weber
DGM-Inventum GmbH


Dr. Belén Torres Barreiro
Rey Juan Carlos University

Paper pools

B	Structural Materials	0
B02	Light Weight Metals	35
Z	Miscellaneous Paperpool	0

Session Assigning Manager

→ Please complete the contribution assignment no later than **Wednesday, 26 April 2023**

→ We ask you to convert a maximum of one abstract per session to Highlight Lecture.

→ We ask you to convert a maximum of one abstract per symposium to Keynote Lecture.

→ All contributions not assigned to a session will automatically be converted to posters after the assignment is completed and confirmed to the authors as a poster contribution.

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→ After you have completed the contribution assignment for your Symposium, the authors will be notified about the acceptance/cancellation or change of their contribution (e.g., from a Lecture to a Poster) by us.

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