

# Advanced Thermoset Production

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## 9th Workgroup Meeting

| WHEN?  | WHERE?                       | CONTACT  |
|--|------------------------------|--|
| Wednesday, April 1 <sup>st</sup> , 2020<br>13:00 – 16:00 h | Interactive Video Conference | Hao Wang<br>+49 241 80-24 517<br>hao.wang@azl.rwth-aachen.de |

**REGISTRATION:** [AZL Partner Section](#)

**DETAILS ON PREVIOUS MEETINGS:** [AZL Partner Section](#)

## WHAT HAPPENED SO FAR?

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Since 2014, AZL Partner Companies have closely worked together in the established AZL Workgroup “Advanced Thermoset Production, formerly called “High-Speed RTM Matrices”.

The workgroup scope includes the following topics:

- **All relevant liquid composite molding technologies:**
  - **RTM**
  - **AFP/ATL**
  - **Pultrusion**
  - **Resin Infusion**
  - **Filament Winding**
  - **Compression Molding**
- **Prepreg technology**

## SCOPE OF THIS MEETING

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In this meeting, the much-requested technology, prepreg compression molding, will be addressed, including material, production system and manufacturing process. Besides this the novel developed battery module with reinforcements made of pultruded profiles will be introduced, as well as the various requirements. Furthermore, the applications of artificial intelligence in design and manufacturing of composites and the corresponding benefits will be briefed.

## AGENDA

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- 13:00**    **Welcome and introduction**
- 13:10**    **Review previous meeting**
- 13:20**    **ATP – Technology monitoring**
- Keynote presentations:**
- 13:40**    **▪ Prepreg compression molding (PCM) for body panels - the most promising technology for volume automotive production**  
            (M. Remp, Mitsubishi Rayon Europe GmbH)
- 14:10**    *Break*
- 14:20**    **▪ Requirements and performance of high precise functional coating technologies for the production of prepregs**  
            (A. Glawe, KROENERT GmbH & Co KG)
- 14:50**    **▪ Increasing the safety of battery modules in electric vehicles with polyurethane pultrusion**  
            (G. Greene, B. Kilian, Covestro Deutschland AG)
- 15:20**    **▪ Application of artificial intelligence in design and manufacturing of lightweight composite components**  
            (Dr. A. Wilmes, Rafinex Limited)
- 15:50**    **Conclusion and discussion**
- 16:00**    **End of meeting**