Altair

CAR
CENTER FOR AUTOMOTIVE RESEARCH

# ENLIGHTEN®
## AWARD 2018

**Automotive's Only Award Dedicated to Vehicle Lightweighting**

In Partnership with:

SAE INTERNATIONAL

Supported by:

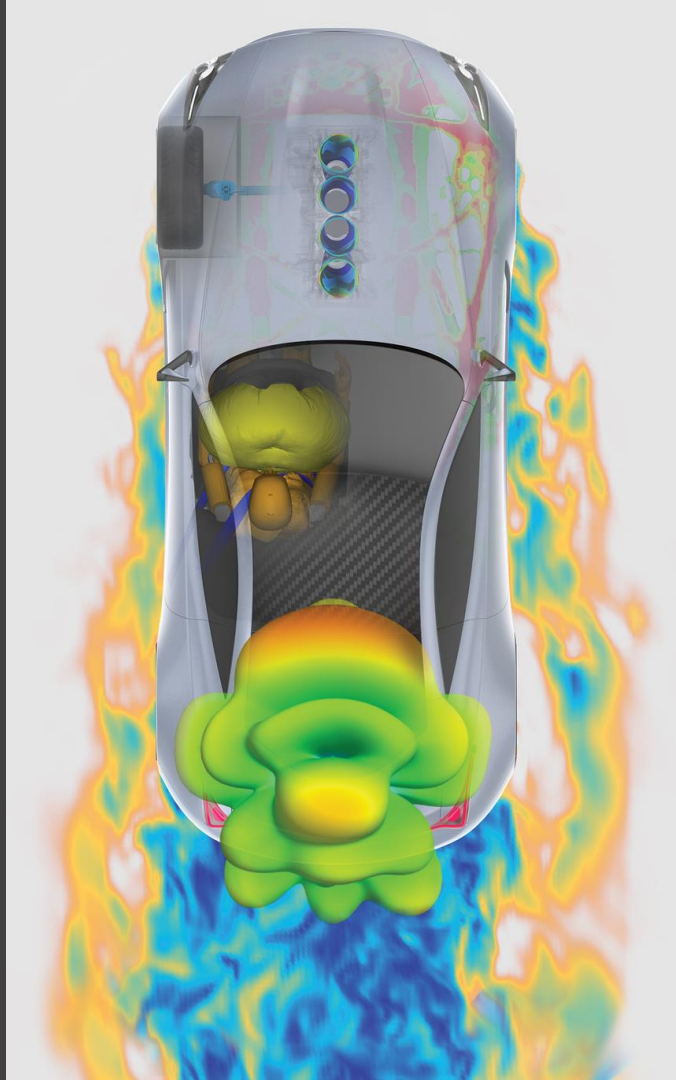
AUTOMOBIL INDUSTRIE

Altair

# Simulation Driven Innovation

## Culture, People, Technology

altair.com



© 2016 Altair Engineering, Inc. Proprietary and Confidential. All rights reserved.

# Automotive's Only Award Dedicated to Vehicle Lightweighting

The Altair Enlighten Award honors the greatest achievements in automotive vehicle weight saving each year; to inspire interest from industry, engineering, policymakers, educators, students and the public; to create further competition for new ideas in the industry; and to provide an incentive to share technological advances.

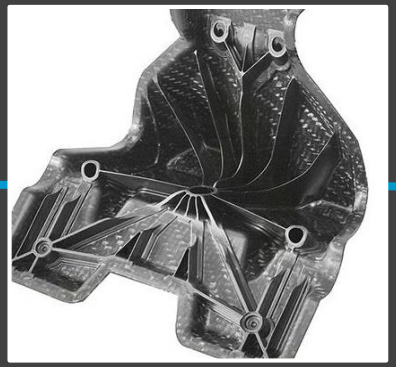
Altair

© 2016 Altair Engineering, Inc. Proprietary and Confidential. All rights reserved.

# Categories for 2018

## Full Vehicle

Lightwighting of a specific vehicle



## Module

Subsystem & components

## Enabling Technology

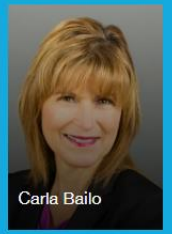
Materials, manufacturing & joining technologies

## Future of Lightweighting

Idea or technology that has future weight saving potential

Altair

# Our Judges

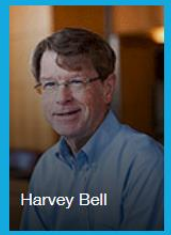


Carla Bailo

President and CEO, Center for Automotive Research

Jim Brancheau

Member of Altair's Board of Directors



Harvey Bell

Professor of engineering practice and co-director of the Multidisciplinary Design Program at The University of Michigan

Abhay Vadhavkar

Director, Manufacturing, Engineering, & Technology at the Center for Automotive Research (CAR)

Gary Latham

Director of Design Engineering at Pratt & Miller Engineering

Dr. Clemens Schmitz-Justen

Founder and head of strategic consulting, CSJ Schmitz-Justen & Company

Chris Theodore

President of Theodore & Associates automotive industry consulting

Ryan Gehm

Editor-in-Chief, Truck & Off-Highway Engineering Magazine at SAE International

Dr. Mark White

(Former) Chief Engineer Body Complete Business Unit, Body Engineering, Jaguar Land Rover Product Development

Dr. Frank Zhao

Professor and Director of Automotive Strategy Research Institute at Tsinghua University

Ken Fouhy

Managing Director, VDI Verlag GmbH and Editor in Chief of VDI nachrichten

Dr.Ichiro Kageyama

Professor at Nihon University, College of Industrial Technology, Department of Mechanical Engineering and Director of the Nihon University Center for Automotive Research

Thank you to our partners

## Award Partner

CAR
CENTER FOR AUTOMOTIVE RESEARCH

## Media Partners

SAE INTERNATIONAL

AUTOMOBIL INDUSTRIE

# 2018 Finalists

© 2016 Altair Engineering, Inc. Proprietary and Confidential. All rights reserved.

ENLIGHTEN®
AWARD 2018

# Future of Lightweighting

## 2018 Winner

Altair

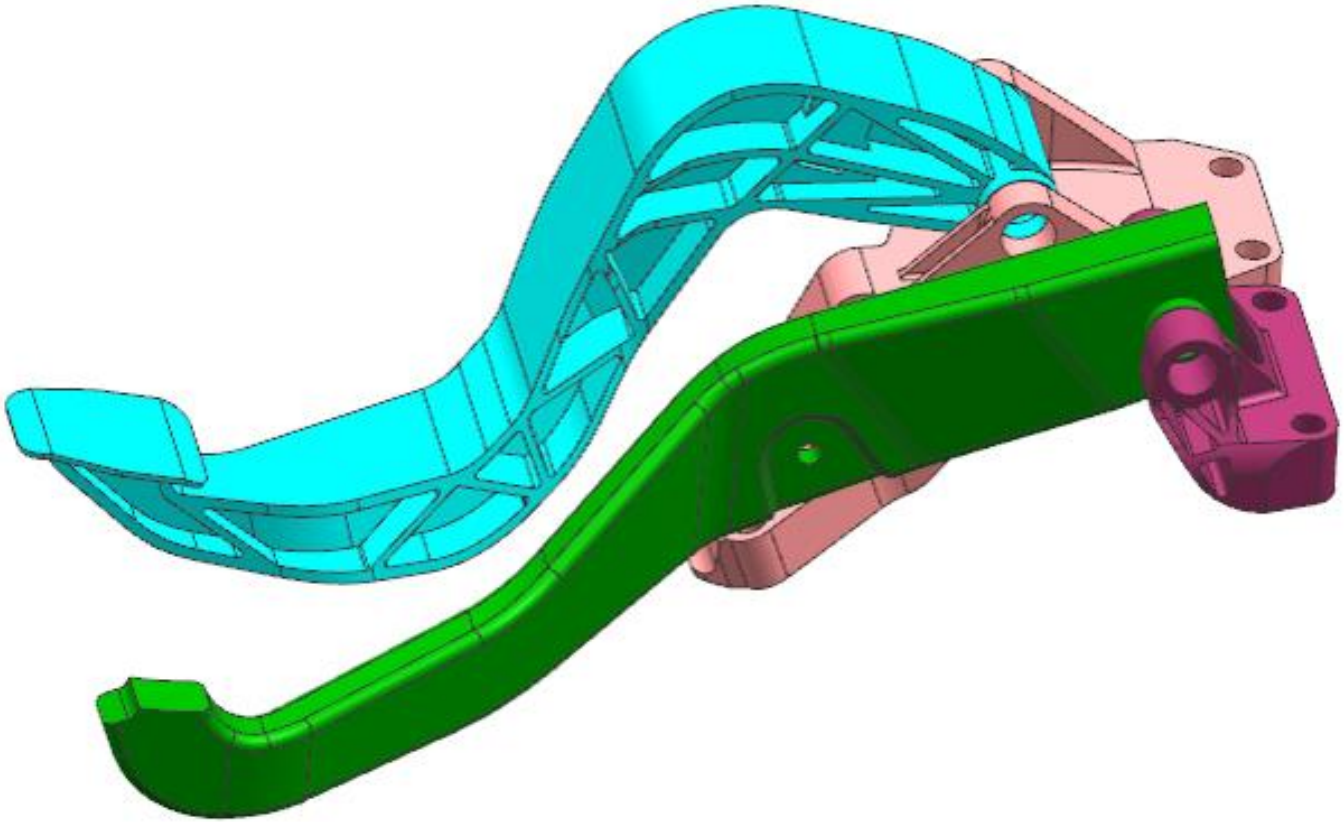
**Winner: AAM** - Quantum Driveline Program

© 2016 Altair Engineering, Inc. Proprietary and Confidential. All rights reserved.

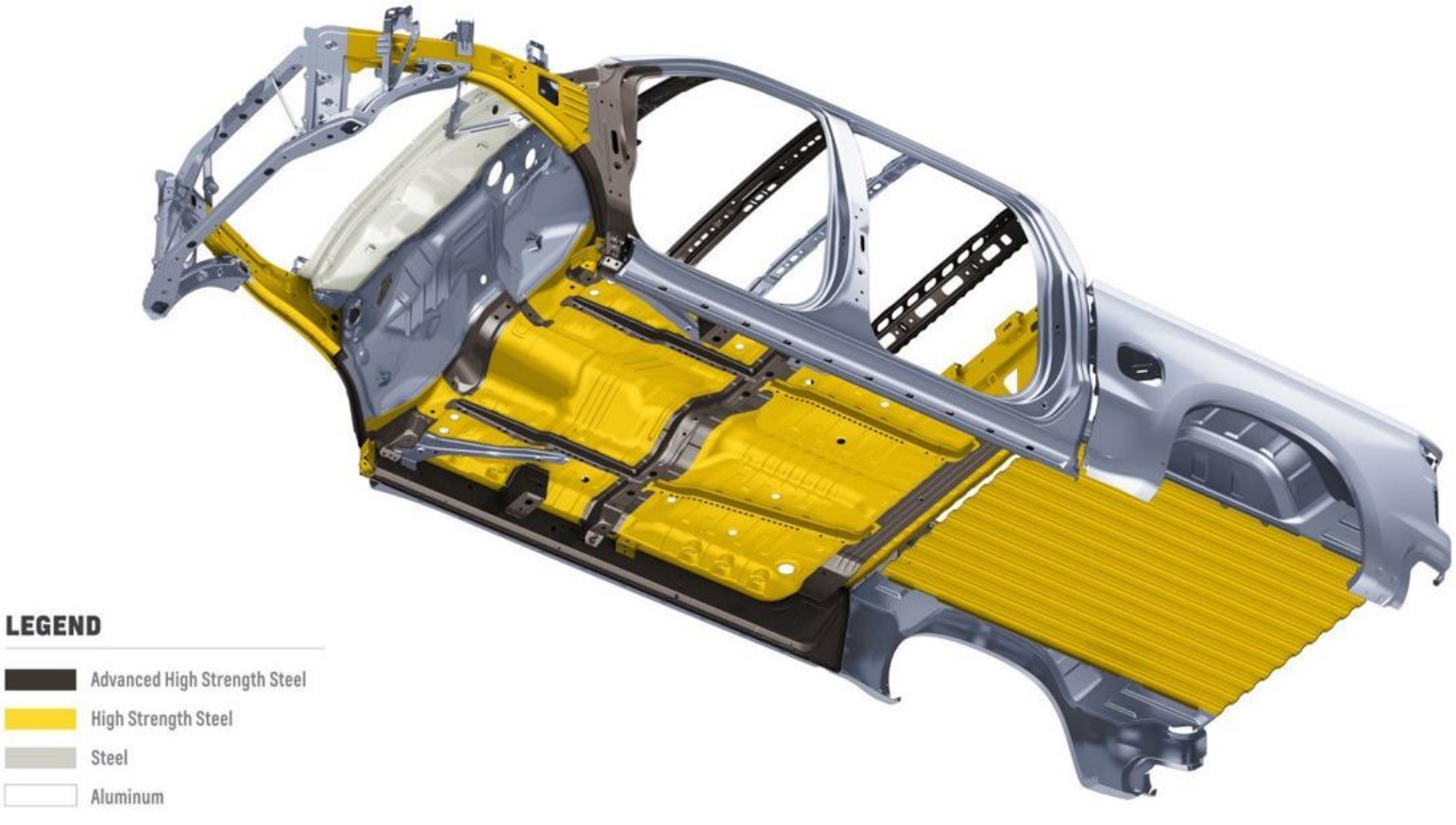
ENLIGHTEN®
AWARD 2018

# Enabling Technology
## 2018 Winners

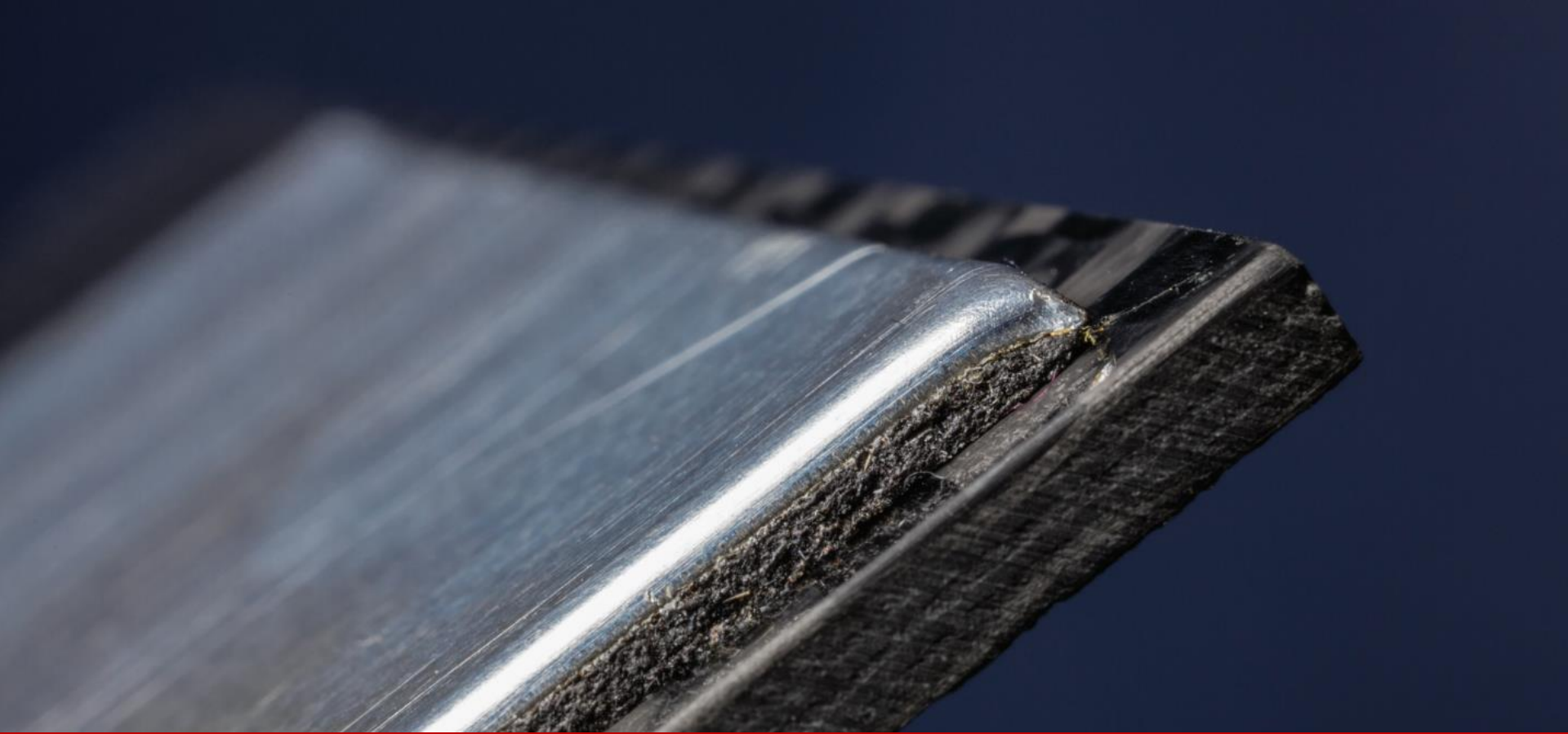
Altair



**Winner: Asahi Kasei** - Glass Fiber Reinforced Polyamide 66 Pedal Bracket




**Winner: United States Steel** - Martensitic Advanced High Strength Steels



**Winner: Sika** - Constrained Layer Material System for Structure Borne Noise Damping

© 2016 Altair Engineering, Inc. Proprietary and Confidential. All rights reserved.

ENLIGHTEN®
AWARD 2018

Module
**2018 Runner Up**

Altair

**Runner Up: Faurecia** - Resonance Free Pipe

© 2016 Altair Engineering, Inc. Proprietary and Confidential. All rights reserved.

ENLIGHTEN®
AWARD 2018

Module
**2018 Winner**

Altair

**Winner: BMW** – i8 Roadster 3D Printed Bracket

© 2016 Altair Engineering, Inc. Proprietary and Confidential. All rights reserved.

ENLIGHTEN®
AWARD 2018

# Full Vehicle
## 2018 Runner Up

Altair

**Runner Up: Daimler** – Mercedes-AMG GT R

© 2016 Altair Engineering, Inc. Proprietary and Confidential. All rights reserved.

ENLIGHTEN®
AWARD 2018

# Full Vehicle
## 2018 Winner

Altair

**Winner: General Motors** – 2019 Chevrolet Silverado

Altair CAR CENTER FOR AUTOMOTIVE RESEARCH

We would like to invite you to join the

# 2019 Altair Enlighten Award

## Categories for OEMs & Suppliers

- Enabling Technology
- Module
- Full Vehicle
- Future of Lightweighting

In Partnership with: SAE INTERNATIONAL

Supported by: AUTOMOBIL INDUSTRIE

# Thank you

altairenlighten.com/award

In Partnership with:

SAE INTERNATIONAL

Supported by:

AUTOMOBIL INDUSTRIE