

# JEC forums

International Conference on Automotive Technology

October 13-14, 2016  
Knoxville, TN, USA



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**Save the date**  
for the forum!

After several JEC Forums editions focusing on advances in design and simulation of composite materials in various industries, for the first time **JEC Forums becomes an event entirely dedicated to composites in the Automotive industry.** Hosted in Knoxville, home to the University of Tennessee and one of IACMI's leading institutions focusing on composites materials and process technologies, JEC Group is also proud to include ORNL, Knoxville Chamber of Commerce, TVA and the State of Tennessee as official partners.

The Automotive industry **remains by far the largest market for composite materials in the U.S.,** rendering it a key player when it comes to innovation and advancements in materials and manufacturing processes. The main challenges: raw material cost reduction, light-weighting, and achieving mass production, are direct consequences of environmental requirements becoming more rigorous as concern about carbon emissions grows.

The **use of carbon fiber is an important part of the answer to these problematics** but brings on its own set of issues that need to be dealt with, thus making the contemplated solutions complex.

JEC Forums **will present an extensive overview of the current trends and innovations thanks to a twofold program.** The first day will offer two conference sessions delving into the possibilities of hybrid solutions, for example by combining lightweight materials with metals, as well as the challenges that come with making carbon fiber an affordable solution for mass production. The second day, organized in partnership with e-Xstream Engineering, will supplement these aspects with a more concrete approach thanks to various workshops focusing on light-weighting, CFRP failure analysis and additive manufacturing. These workshops involve presentations, live demonstrations, case studies and Q&A, and will be followed by a guided composite tour.

This event is a great opportunity to show advancements on the aforementioned subjects, with several OEMs already in talks to present.

In partnership with:



**JEC KNOWLEDGE & NETWORKING**  
GROUP DEVELOPING THE COMPOSITES INDUSTRY WORLDWIDE

[JECcomposites.com](http://JECcomposites.com)

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## Program

### Day 1

## Conference sessions

8 am  
9 am

### Welcome Breakfast

9 am  
12 am

### Multimaterial solutions in Automotive

- Using both composites and metal components for optimized lightweighting
- Toughening composites via hybridization
- Replacing traditional fasteners with adhesive bonding

1:30 pm  
5 pm

### Incorporating carbon fiber in structural parts in the Automotive industry

- New repair and recycling technologies
- Measuring structure health thanks to crashworthiness testing

Starting at  
6 pm

### Grand Reception



### Day 2

## Workshops and Composites Tour

In partnership with  Stream

8:30 am  
8:45 am

### Introduction to multi-scale material modeling

8:45 am  
10 am

### Workshop 1: Metal to plastics for light-weighting

1. End-to-end analysis of reinforced plastic parts:
  - Material testing
  - Prediction of nonlinear structural analysis
2. Industrial case study

10 am  
10:15 am

### Networking Break

10:15 am  
11:30 am

### Workshop 2: Progressive failure analysis of CFRP

1. Progressive failure analysis framework
2. Virtual allowables or how to reduce the time & cost of CFRP characterization
3. Industrial case study

11:30 am  
11:45 am

### Networking Break

11:30 am  
1 pm

### Workshop 3: SLS & FDM additive manufacturing of reinforced polymers

1. Multi-scale modeling of 3D printing materials, process and part performance
  - Material engineering of reinforced polymers for 3D printing
  - Process simulation for warpage prediction
  - Stiffness & failure prediction as a function of the material and printing direction
2. Industrial case study

1 pm  
4 pm

### Composites tour

In partnership with  IACMI

### Invited Companies

- |                  |                    |              |
|------------------|--------------------|--------------|
| • BMW            | • Honda            | • Toho Tenax |
| • Cytec          | • Johnson Controls | • Toray      |
| • DANA           | • Mercedes         | • Toyota     |
| • DowAksa        | • Nissan           | • Volkswagen |
| • Faurecia       | • Schuler          | • Volvo      |
| • Ford           | • SGL Group        | • etc...     |
| • General Motors |                    |              |

**Speaker opportunities & Registration**  
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**Table-Top & Sponsoring**  
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## Forum Registration

- 2 day - early bird fee until July, 30 ..... \$250
- 2 day - from July, 1<sup>st</sup> until October, 11 ..... \$280
- 2 day - onsite registration fee ..... \$320
- Students & Academics ..... \$100

## Diamond Level Sponsorship

*Including all the Gold & Platinum level benefits*

- Exclusive Sponsor - **Grand Reception** ..... \$12,000
- 2 Sole Sponsorship - **Grand Reception** ..... \$ 7,000

- Prominent signage promoting your company during your sponsored event
- Your logo on the badge of each participant
- Your ad banner displayed on the online registration form at the top of each page.  
 Your brand will be visible by all attendees through each stage of the registration process.
- Your company mentioned on every Social Media post concerning the reception
- Full page ad on the back cover of the Visitor's Guide distributed to all the participants

## Platinum Level Sponsorship

*Including all the Gold level benefits*

- Breakfast & Refreshment Breaks** .....  Day 1  Day 2 ..... \$ 5,000
- Day 1 - **Lunch** ..... \$ 6,000
- Day 2 - **Lunch and Composites tour Visit** ..... \$ 6,000

- Prominent signage promoting your company during your sponsored event
- Your logo on the Conference dedicated page of JEC Composites Website (35,000 unique visitors/month)
- Full page 4/c ad on the inside front or inside back cover of the Visitor's Guide distributed to all the participants
- Your company logo on the advertising proceedings
- One dedicated meter board to present your company

## Gold Level Sponsorship ..... \$ 4,000

- Your logo on Meter boards at the entrance of the Conference
- Your company logo on stage on an advertising panel (85 x 215 cm)
- Your logo projected on screen on stage
- Your company name in bold and red on the exhibitor's list of the visitor's guide
- 1 full page advertising in the Visitor's guide (The visitor's guide will be distributed to all the attendees)
- Your logo on visitor's guide as a Sponsor
- Your logo on the email blast promoting the Conference presence to the potential attendees
- Ability to distribute directly to conference attendees your flyers, brochure, CD-ROM, DVD, Corporate give-away's, etc...  
 (to be delivered on site)
- 1 table-top + 4 Conference passes

## Tabletop Exhibit ..... \$ 1,800

includes exhibit table in the conference area foyer or exhibit ballroom and 2 Conference passes,  
 half-page company profile in Conference visitor's guide

## Visitor's Guide ..... \$ 1,000

Full-page company profile in visitor's guide and proceedings, 2 conference passes.

## Promotion ..... \$800

Distribute directly to conference attendees your flyers, brochure, CD-ROM, DVD,  
 Corporate give-away's, etc -, 1 conference pass

**Total Sponsorship: \$** .....

For Registration & Sponsoring, document to be returned at [baudry@jeccomposites.com](mailto:baudry@jeccomposites.com)

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