



2016 NAFEMS Americas Conference

Democratization Mini-Symposium



Computer-Aided Engineering and Simulation: Be Prepared for Major Shifts in the Market and Engineers' Priorities

Dr. Marc Halpern, Research Vice President, Gartner, Inc.

[more information](#)



ASSESS Initiative Update: Addressing the Changing Role of Simulation

Mr. Joe Walsh and Mr. Bradley Holtz, ASSESS Leaders

[more information](#)



Total Airflow Management for a New Hybrid Supercar Using Advanced CFD

Mr. Thomas Ramsay, Principal Engineer & Acura NSX Aerothermal Project Leader, Honda R&D Americas, Inc.

[more information](#)



Boeing -- Forging New Frontiers throughout its History: A Simulation Perspective

Mr. Steve Chisholm, Director of Structures Engineering, The Boeing Company

[more information](#)



The Case for Regulatory Grade Computer Modeling and Simulation

Dr. Dawn Bardot, Vice-President, Technology Innovation, Medical Device Innovation Consortium

[more information](#)



HPC Trends and their Impact on CAE Simulation

Dr. Steve Scott, Senior Vice President and Chief Technology Officer, Cray

[more information](#)



Democratization Mini-Symposium

- Total Conference Attendees: 326
 - 80: Estimated average attendance in the democratization mini-symposium/track
 - 14 presentations & one panel discussion
 - Nearly two full days
 - Dynamic panel discussion
 - Received one of the best presentation awards (and several others in the top 10% of presentation ratings)

Democratization Track Update

Title	Speaker	Company
"Democratization of Simulation" in an Automotive Supplier	Desai	American Axle Manufacturing
Yes! Product Engineers with Limited CAE Expertise Can Safely Run Complex Simulation Using Simulation Apps	Panthaki	Comet Solutions, Inc.
Knowledge Capture for Multidisciplinary STOP Analysis	Scola	NASA Langley Research Center
Moving CAE from Perspiration to Inspiration	Jeancolas	MSC Software
Toward the Democratization of CAE with Software Containers	Yenier	Uber Cloud
Use of Meta-Codes and Webapps to Democratize High-End Structural Analysis and Optimization	Eckblad	Intel
Democratizing a Multivariate Statistical Model Validation Method through an Intelligent Fit-for-Purpose App	Betts	Front End Analytics LLC
Simulation for Everyone: Techniques to Help Democratize Simulation	Riaz	ANSYS
Towards Cognitive Computer Aided Engineering	Suwelack	Karlsruhe Institute für Technologie (KIT)
Technical Requirements for the Deployment of Engineering Simulation Apps	Actis	Engineering Software Research & Development, Inc.
Cloud Based Multiphysics Computational Simulation Applications	Crompton	AltaSim Technologies LLC
Awesim: A Platform for Web-Based HPC Applications	Lange	Technology Optimization & Management
Democratization Using Simulation Apps: Wading through the Hype! Where Do We Go from Here?	Panthaki	Comet Solutions, Inc.
Lessons Learned from an Enterprise Practitioner	Valine	GKN Driveline North America, Inc.
Panel Discussion: Democratization	Betts & Valine	



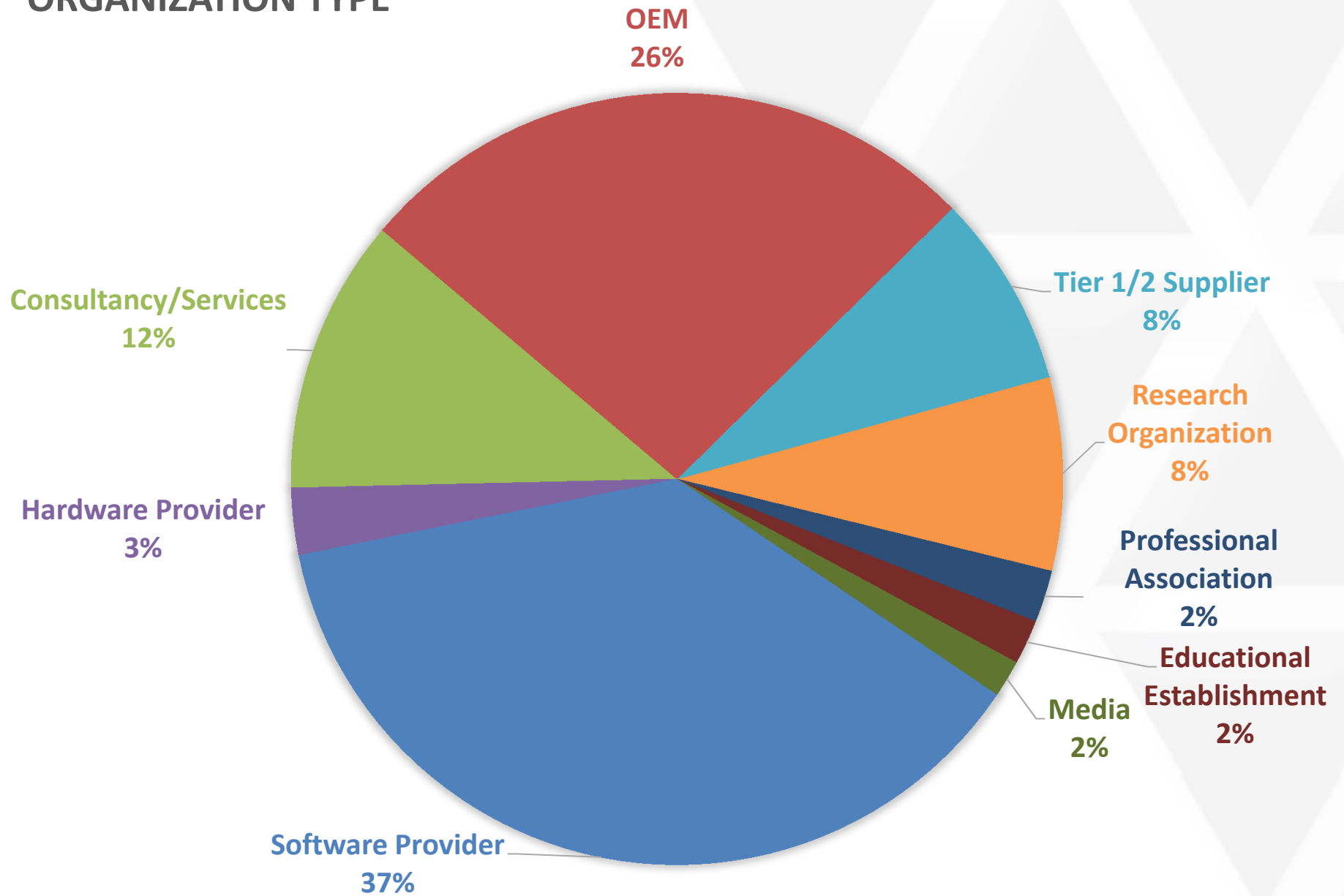


General Conference Information

2016

325 Attendees

ORGANIZATION TYPE



Locations Traveled

Longest Distance Traveled “Award”

- Kothurd (India)
 - [22h45m+*]
- Melbourne (Australia)
 - [18h50m+*]
- (Singapore)
 - [17h35m+*]

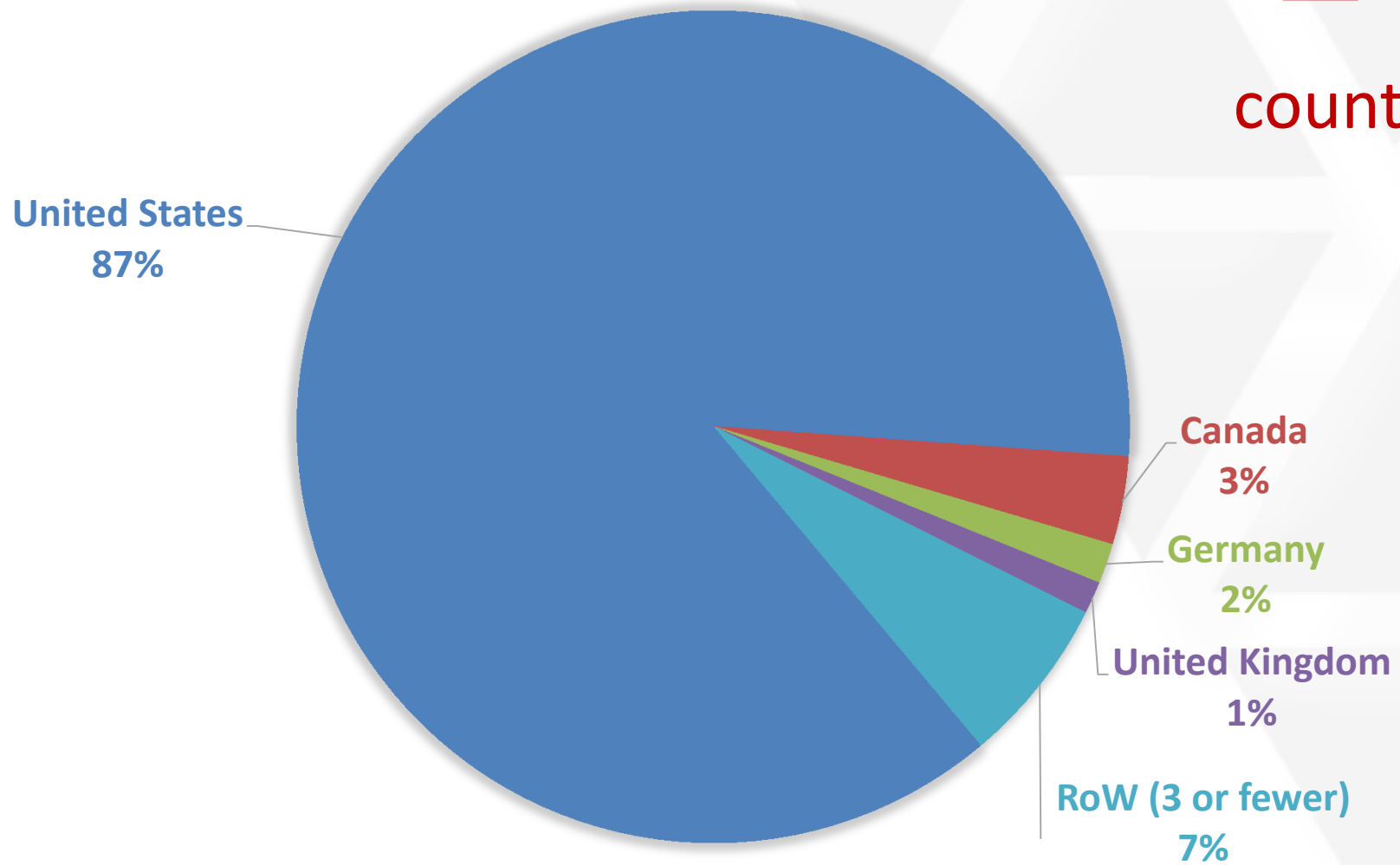
Countries Represented (Outside of the Americas)

- Australia
- Belgium
- France
- Germany
- India
- Israel
- Japan
- Netherlands
- Norway
- Philippines
- Russian Federation
- Singapore
- South Korea
- Spain
- United Kingdom

*Google Flights – Flight Time Estimates

ATTENDEE REPRESENTATION

18
countries



3DVision Technologies
 A. Stucki Company
 A.Raymond Tinnerman Automotive, Inc
 Accuride Corporation
 Adaptive Corporation
 Advanced Technologies Applications LLC
 Allinea
 Altair Engineering, Inc.
 AltaSim Technologies LLC
 AMC Bridge LLC
 American Axle Manufacturing
 ANSYS
 AP Dynamics Inc.
 Apple Inc.
 Applied Materials Inc
 ARUP
 ASME
 Autodesk
 Automotive Research Association of India
 BD Medical
 Bechtel Plant Machinery Inc
 Bentley Systems Inc.
 BETA CAE Systems USA, Inc.
 BeyondCAE
 Blount Inc.
 Bobcat Company
 Boeing Company, The
 BorgWarner Morse Systems
 Carleton University
 Caterpillar Inc.
 CD-adapco
 Ceetron AS
 CH2M
 Chiastek
 Chiyoda Corporation
 CIMdata Inc
 Coffman Engineers, Inc.
 Comet Solutions, Inc.
 Convergent Manufacturing Technologies Inc
 Convergent Science
 Cummins Engine Company
 Daimler Trucks North America LLC
 Dana Holding Corporation
 Dassault Systèmes SIMULIA Corp
 Desktop Engineering
 Digital Product Simulation Inc.
 DRS Technologies
 E.A. Ladzinski and Associates
 EASA Software
 EMBRAER S.A.
 Engineering Software Research & Development, Inc.

Engineering.com
 Ethicon Endo Surgery
 Exco Engineering
 e-Xstream
 F.tech R&D North America Inc
 FETraining
 Fidesys LLC
 Ford Motor Company
 Free Field Technologies North America, LLC
 Front End Analytics LLC
 Gartner, Inc.
 General Dynamics Mission Systems Canada
 German Cancer Research Center
 GKN Driveline North America, Inc.
 Hanon Systems USA, LLC
 HBM nCode
 Honda R & D, Americas, Inc
 Honeywell Federal Manufacturing & Technologies
 HP
 HPC Advisory Council
 IBM
 IMI
 Ingersoll Rand Club Car
 INTECSEA
 Intel
 INTES GmbH
 intrinSIM LLC
 Karlsruhe Institute für Technologie (KIT)
 Kimberly-Clark Corporation
 Kinetic Vision
 Knolls Atomic Power Laboratory
 Koneksys
 Mabe S.A. de C.V.
 Magna International
 MANDO Corp
 Marine Engineering Consulting LLC
 Medical Device Innovation Consortium
 Mentor Graphics Corporation
 Metacomp Technologies
 Michigan State University
 Microsoft
 Modelon, Inc.
 Mohan Arulampalam, Professional Engineer
 MSC Software
 NASA Langley Research Center
 Navitas Group Inc
 NewtonWorks Corp.
 NextEV
 NIKE
 Nimbix
 Noesis Solutions

Northrop Grumman Corporation
 NVIDIA
 Ohio Supercomputer Center
 Open iT
 Ora Research LLC
 Oshkosh Corporation
 Owens Corning Science & Technology
 PACCAR Technical Center
 Parker Aerospace
 Parker Hannifin Corporation- Hydraulic Valve Division
 Penguin Computing
 Phoenix Integration
 Pluralsight
 Popielas Engineering Consulting, LLC
 Precor Incorporated
 Puget Sound Naval Shipyard
 Qumulo
 Rescale
 Rolls-Royce Corporation
 Romax Technology
 Saratech, Inc.
 Sealed Air
 Siemens Industry Sector
 Siemens Medical Solutions Diagnostics
 Siemens PLM Software
 Simpleware
 SimuTech Group
 Singapore Technologies Kinetics Ltd
 SmartUQ
 Southwest Research Institute
 Spatial Corporation
 Stanley Black & Decker Inc
 Synopsys
 T-AirTech
 Technip USA
 Technology Optimization & Management
 Tecplot Inc.
 Terex Aerial Work Platforms
 Third Wave Systems
 Thomas & Betts Corporation
 Thornton Tomasetti and pzfex software
 TotalCAE
 Toyota Motor Engineering & Manufacturing North America, Inc.
 Uber Cloud
 University of Washington
 Visual Collaboration Technologies Inc
 Voith Hydro Holding GmbH & Co. KG
 W.L. Gore & Associates
 Washington State University
 Western New England University
 Zodiac Aerospace

Industry Diversity

