

WELCOME to NAFEMS 2020

A 2020 Vision of Engineering Analysis & Simulation

Brought to you by:
The North American (NA) Regional
NAFEMS Steering Committee





North American Steering Committee

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Mr. Edward Ladzinski IBM



Dr. Ahmed Noor Old Dominion University



Dr. Bijan Shahidi EPI: Engineering Products Inc.



Mr. Matthew Ladzinski NAFEMS







NA NAFEMS Steering Committee Charter

Goal

- Support the Mission of the International NAFEMS Organization
 - Facilitate International Industry, Academia, and Government Collaboration Leveraging Unbiased Multidisciplinary Engineering Expertise with a Focus on USA and Canada
 - Improve Product and Process Simulation
 - Have a Positive Impact on Quality, Profitability, Schedules, and Safety

Objectives

- Promote COLLABORATION within the international engineering analysis and simulation community,
- Stimulate INNOVATION via transfer of knowledge in the use of advanced scientific, engineering and computing technologies,
- Maximize PRODUCTIVITY through improved best practices used in product development engineering processes,
- Implant QUALITY in the methods and techniques exploited by virtual product development processes.



Theme of the NAFEMS NA Regional Summit

- A Vision of CAE's Potential in 2020, by exploring:
 - Business Developments for Increased Financial Impact of CAE Investments
 - Roadmaps for CAE Developments & Deployments
 - Roles of CAE Software & Hardware Developers
 - Technical Developments for Improved Speed, Accuracy, Reliability, Accessibility, and Applicability of Results
 - Relevant Physics Integrated for Multifunctional & Multiphysics Simulation
 - Multiscale Material Modeling from Atoms to Products
 - Common Rapid Product Knowledge Management
 - Smart Real-Time Simulations
 - Human Issues
 - Immersive Virtual Design Environments
 - Shared Man-Machine Intelligence



Activities During the Summit

Venue

- Training Course Preceding the Summit
- 6 Keynotes
- 39 breakout Presentations
- 2 Forums
 - PLASVEE with 8 Vendors
 - Vendor Forum with 12 Vendors (Open Discussion)
- Tour of the Center for Advanced Engineering Environments (CAEE)
- Exhibits

Expectations

- Network Industry, Government, Academia, Vendors, Visionaries
- Learn About the Transformation of CAE for the Future!
- Have Fun!





Enjoy the NAFEMS 2020 Summit!



Pathway to Future CAE Technologies and Their Role in Ambient Intelligent Environments



Prof. Ahmed K. Noor

- William E. Lobeck Professor of Aerospace Engineering, Old Dominion University
- Director of ODU's CAEE
- NAFEMS North American Steering Committee

