Stochastics Working Group
Introduction

The CAE/Simulation market continues to see rapid and sustained growth

Two recent innovations within the Analysis & Simulation community are:
1. The low cost of compute capacity
2. The ever increasing sophistication of simulation software

The use of stochastics has been validated in the commercial automotive crash and test applications

The use of stochastics is applicable across engineering disciplines

These trends are continuing and we can now expect to mimic true lifelike analysis through realistic and verifiable iterative analysis.
NAFEMS Objectives

NAFEMS mission is to act as a trusted source and a collaborative resource for the best engineering modeling, simulation and analysis practices in the development of safe, reliable, and affordable products. Its focus is to champion and improve best practices, to promote and enrich educational opportunities aligned with the rapidly-advancing technologies, and to advance the productivity and quality of virtual product development processes.

Specific objectives of NAFEMS are to:

– 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.

NAFEMS is a not-for-profit membership association of nearly **800 companies** from all over the world.
NAFEMS Stochastics Working Group

SWG Purpose:

- Promote the adoption and further development of practical applications to meet the Value Propositions
- Give unique insight and perspective into the area of stochastics.
- Collaborate on recent developments
- Share breakthrough technologies
NAFEMS Stochastics Working Group

Mix of industrialists, consultants, vendors, and academia:

• Provide recommendations to advance the user community
• Share breakthrough technology to the dedicated community
• Provide support to the SWGSC
• Publish whitepapers
• Focus on the user community
NAFEMS Stochastics Working Group Steering Committee (SWGSC)

Based on a core team of 9 members:

- Proactively represent the working group
- Provide recommendations to advance the user community
- Share breakthrough technology to the dedicated community
- Publish whitepapers (with SWG support)

End-user driven
SWG Steering Committee

**Members:**

- Michel Klein – ESA
- Sadek Rahman – Daimler Chrysler
- Tsuyoski Yasuki – Toyota
- Alexandar Karl – Rolls-Royce
- Raj Rajagopal – Pratt & Whitney Rocketdyne
- Kazuhiro Iijima – Nissan
- Mats Larsson – SAAB
- Rodney Dreisbach – Boeing
- Mary Fortier – General Motors