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Brandywine Valley
Chapter

December Virtual Technical Meeting

Tuesday – December 8, 2020

**Center for Materials Processing Data:
Materials Data for Process Modeling**

By Dr. Lesley Frame

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University of Connecticut*

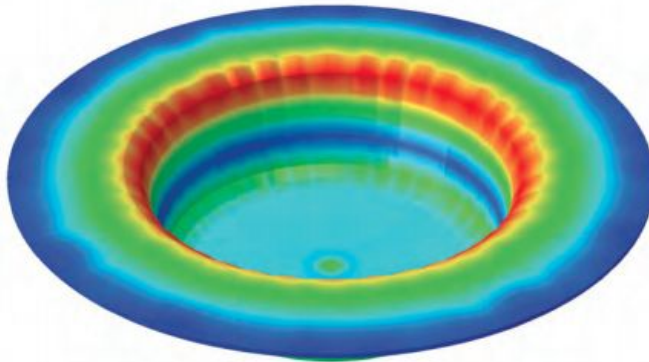
Location: Virtual meeting with Zoom:

<https://udel.zoom.us/j/98399335031>

(Password: 777414; Additional Login details below after the abstract)

Signup link for the event: <https://forms.gle/vfWrk33jJvme4TrD7>

Networking 6:30 PM, Presentation 7:00 PM , Cost: Free !!



Abaqus simulation of deep drawn 305 stainless steel with Von Mises strain plotted.

Abstract: This presentation addresses some of the current challenges associated with selecting and collecting materials data as inputs to multi-scale behavior models of materials for thermal and mechanical manufacturing processes. Deterministic and

stochastic approaches are discussed along with the need for uncertainty quantification of simulation results. On-going research by the Center for Materials Processing Data is presented as an example of some of these materials data challenges.

Please sign up for the meeting using the google forms [here](#).

Zoom Login Details:

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Information on how to join a test meeting to check your

Internet/audio/video settings:

<https://support.zoom.us/hc/en-us/articles/115002262083-Joining-a-Test-Meeting>

Other ASM Brandywine Valley Chapter Upcoming Events:

- January 12 – Under the Dome: ASM Virtual Research Lab Tour with ASM Lehigh Valley Chapter
- February 9 – Plastics, Elastomers and Composites for Chemical handling – Past, Present and Future, Pradip Khaladkar PE, PECT Consulting
- March date TBD – Trustee's Visit, ASM President with ASM Philadelphia Chapter
- April date TBD – Nabertherm Presentation/ Virtual Tour
- May date TBD – Trends in Materials Research, Dr. Linda Sapochak, NSF