



SEMINAR

APPLIED MATHEMATICS AND MECHANICS

FS1008

10 April 2025

A DCAMM seminar No. 784 will be presented by

Professor Fazleena Badurdeen
University of Kentucky
Lexington, Kentucky, USA

The title of the lecture is

Life Cycle Innovations to Advance Product Circularity and Sustainability

Abstract:

Amid growing concerns over increasing resource depletion, pollution, and climate change, it is vital to reconsider how products are designed, utilized, and managed at the end of life (EoL). Designing products to transition away from conventional, open-loop material flow to embrace closed-loop and multiple life cycle-focused material flow is paramount to mitigate the detrimental environmental implications. Comprehensive methods to assess product circularity and sustainability play a key role in informing design changes that can help achieve this objective. The effectiveness of design decisions, however, depends on access to comprehensive and timely product life cycle data. Once products are designed and launched, informed product user engagement is also vital to ensure closed-loop practices are effectively operationalized. This talk will showcase our research efforts to address some of these challenges for advancing both product circularity and sustainability.

DATE:	Thursday, 24 April 2025
TIME:	11:00 – 11:45
PLACE:	Building 402, Room 129 DTU, Technical University of Denmark

Danish pastry, coffee and tea will be served 15 minutes before the seminar starts.

All interested persons are invited.

Jan Becker Høgsberg

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