

/ AGENDA

Make Material Intelligence Count

Our new virtual event – Ansys Material Intelligence Day will showcase best practice from across industry, research and academia.

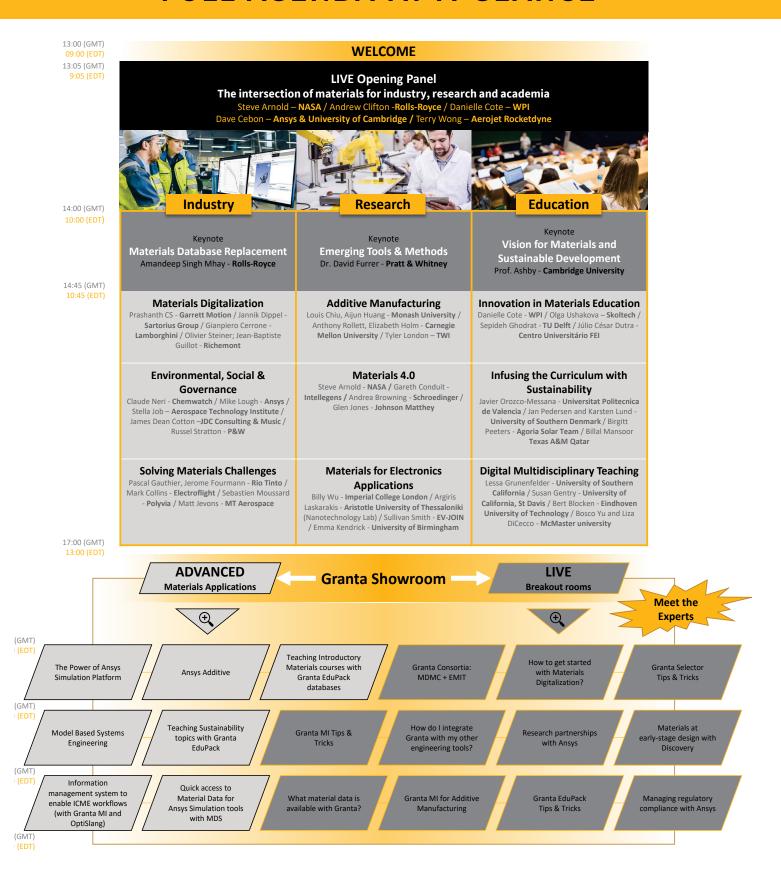
NOVEMBER 3, 2021

REGISTER ▶



AGENDA WEDNESDAY, NOVEMBER 3, 2021

FULL AGENDA-AT-A-GLANCE







LIVE OPENING PANEL

13:00 (GMT) / 9:00AM (EDT) Welcome









13:05 (GMT) / 9:05 AM (EDT)

The intersection of materials for industry, research and academia What is the materials engineering toolbox of the future?



Steven Arnold
Technical Lead,
Multiscale Multiphysics Modelling
NASA Glenn Research Centre



David Cebon Ansys Fellow, Professor Cambridge University



Andy Clifton
Global Sustainability Manager
Rolls-Royce



Assistant Professor in Materials Science & Engineering Worcester Polytechnic Institute



Anthony Dawson VP & GM Product Ansys



Terry WongMaterial Process and Engineering
Aerojet Rocketdyne





INDUSTRY TRACK



14:00 (GMT) / 10:00 AM (EDT)

KEYNOTE PRESENTATION: Granta MI – Materials Database Replacement Programme

Amandeep Singh Mhay Rolls-Royce

Materials Digitalization	So
	14:4
Garrett Material Data	Che
Management	Clau

Prashanth CS Garrett Motion

Material selection processes within the highly regulated biopharmaceutical industry

Jannik Dippel Sartorius

Environmental, Social & Governance

14:45 (GMT) / 10:45 AM (EDT)

Chemwatch for Granta MI

Claude Neri & Michael Lough Chemwatch & Ansys

15:15 (GMT) / 11:15 AM (EDT)

FlyZero: Designing for sustainable zero carbon aviation

Stella Job Aerospace Technology Institute

16:00 (GMT) / 12:00 AM (EDT)

Lamborghini shares Beat Practices in Materials Data Management Identification of sustainable tonewoods for acoustic guitars using Granta Selector

James D Cotton

JDC Materials Consulting

16:30 (GMT) / 12:30 AM (EDT)

Granta MI @ Richemont: THE MAGIC PROJECT

Gianpiero Cerrone

Lamborghini

Olivier Steiner & Jean-Baptiste Guillot Richemont

Aircraft Engine Sustainability

Russell Stratton
Pratt & Whitney

Solving Materials Challenges

Designing For Speed and Sustainability: Materials Selection for Critical Parts

Mark Collins **Electroflight**

Super Lightweighting for components of the Ariane rocket (TBC)

Matt Jeavons MT Aerospace

Rio Tinto 2040 - vision for aluminium products development and data management

Pascal Gauthier & Jerome Fourmann

Rio Tinto

The challenge of switching to recycled polymers with Polyvia

Sebastien Moussard Polyiva



AGENDA WEDNESDAY, NOVEMBER 3, 2021

RESEARCH TRACK



14:00 (GMT) / 10:00 AM (EDT)

KEYNOTE PRESENTATION:

Emerging Tools and Methods for Materials Development, Definition and Application

David Furrer Pratt & Whitney

Additive			
Manufacturing			

Materials 4.0

14:45 (GMT) / 10:45 AM (EDT)

for Material Modelling

Materials for Electronics Applications

ICME and Future Directions

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Battery pack design – from cell selection to pack materials

Louis Chiu Monash University

Data collection and usage in

research environment

Steve Arnold NASA Billy Wu Imperial College

Development of an Ecosystem for Qualification of AM Processes and Materials in Aviation

Prof. Anthony Rollett Carnegie Mellon University (NextManufacturing)

Molecular Design for Materials Properties

15:15 (GMT) / 11:15 AM (EDT)

Andrea Browning Schrödinger, Inc

Bringing intelligence in nanomanufacturing of Organic & Printed Electronics by in-line metrology and advanced data management

Argiris Laskarakis Nanotechnology Lab LTFN, Aristotle University of Thessaloniki

Process control & optimization for Additive Manufacturing

Tyler London TWI

16:00 (GMT) / 12:00 AM (EDT)

A faster way to develop & optimize composite materials

Charlie Bream, Koji Yamamoto, Chandima Uyanage Ansys & Cybernet

How joining technology can provide solutions for the electrical revolution

Sullivan Smith TWI / EV JOIN

16:30 (GMT) / 12:30 AM (EDT)

Innovative machine learning for data-driven design of AM materials and processes

Gareth Conduit Intellegens

Physical and Chemical Modelling in Johnson Matthey

Glen Jones

Johnson Matthey

Sustainability in batteries

Emma Kendrick University of Birmingham





EDUCATION TRACK



14:00 (GMT) / 10:00 AM (EDT)

KEYNOTE PRESENTATION: Vision for Materials and Sustainable Development

Prof. Ashby **Cambridge University**

Innovation	in	Materia	ls
Educ	at	ion	

Infusing the Curriculum with Sustainability

Digital Multidisciplinary **Teaching**

Teaching Computational Tools

to Motivate Students for the

Engineering Workforce

Susan Gentry University of California, St Davis

Using Undergraduate Introduction to Materials Science Activities to Provide Student Interaction during Remote Learning

Danielle Cote Worcester Polytechnic Institute

Re-design of Materials Science &Engineering Master program

Olga Ushakova Skolkovo Institute of Science and Technology

14:45 (GMT) / 10:45 AM (EDT)

Transdisciplinary virtual collaboration for Urban

sustainability projects.

ISAlab workshop Javier Orozco-Messana

15:15 (GMT) / 11:15 AM (EDT)

Universitat Politecnica de Valencia

Sustainability used as a main factor in project work for undergraduate, first year students

Jan Pedersen and Karsten Lund University of Southern Denmark

Role of simulation in teaching sports and building aerodynamics

Bert Blocken Eindhoven University of Technology

Designing with Shape Memory Materials

Sepideh Ghodrat TU Delft

16:00 (GMT) / 12:00 AM (EDT) Infusing Granta Edupack to

implement active learning cycle online

> Billal Mansoor Texas A&M Qatar

Experiential Learning of Material Science: A Design-led approach

Bosco Yu and Liza Dicecco McMaster university

Gamification with Ansys Granta

Júlio César Dutra Centro Universitário FEI

Finding the limits of technology in the Agoria Solar Team

16:30 (GMT) / 12:30 AM (EDT)

Biraitt Peeters Agoria Solar Team

Creation and implementation of in-class activities for an online materials course

Lessa Grunenfelder University of Southern California





GRANTA SHOWROOM

ON-DEMAND SHOWROOM ▶ LIVE

LIVE SHOWROOM (100 person limit)

▶ LIVE

Granta Consortia: MDMC + EMIT

Rob Davis, Mike Lough, Dave Cebon

The Power of Ansys Simulation Platform

Navin Budhiraja

17:00 (GMT) / 13:00 (EDT) -

How to get started with Materials Digitalization?

Sak Arumugam, Joe Rasche

Ansys Additive

Curt Chan, Nilay Parikh

▶ LIVE

Granta Selector Tips & Tricks

Roger Barnett, Benedikt Duerbeck

Teaching Introductory
Materials courses
with EduPack

Kaitlin Tyler

17:30 (GMT) / 13:30 (EDT)

▶ LIVE

Granta MI Tips & Tricks

Charlie Bream, Sergio Calleja

▶ LIVE

Materials at early stage design with Discovery

Curt Chan, Roger Barnett, Tejas Rao

▶ LIVE

How do I integrate Granta with my other engineering tools?

Remi Mesnildrey, Geoff Lunn

Model Based Systems Engineering

Will Marsden

▶ LIVE

Research partnerships with Ansys

Donna Dykeman, Davide Di Stefano

Teaching
Sustainability topics
with Granta EduPack

Mauricio Dwek

18:00 (GMT) / 14:00 (EDT) -

▶ LIVE

What material data is available with Granta?

Roger Barnett, Luke Brown

▶ LIVE

Managing regulatory compliance with Ansys

Ben Conlon, Marc Horner

▶ LIVE

Granta MI for Additive Manufacturing

Sak Arumugam, Nilay Parikh

Using Ansys
Granta MI + OptiSLang to
enable ICME workflows

Davide Di Stefano, Ludovic Steinbach

▶ LIVE

Granta EduPack
Tips & Tricks

Susannah Cooke, Claes Fredriksson

Quick access to Material Data for Ansys Simulation tools with MDS

Scott Wilkins



Reserve your Place

NOVEMBER 3, 2021

REGISTER NOW ▶

Share with a colleague who may benefit too

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