



Computational Materials Science Summer School (CMS³)

12th Anniversary

In-person on Texas A&M campus in College Station, TX, USA
&
Remotely online

July 23 – August 4, 2023

Program Schedule

***All listed times are in Central Daylight Time (Texas local time)**

Sunday | July 23, 2023 | Welcome

5:00 PM Meet & Greet over Pizza
RDMC 202, 575 Ross Street, College Station, TX 77843
& Online via Zoom**

In-person class and instructional labs will be held in the
Innovative Learning Classroom Building (ILCB)*, Room 237

*215 Lamar St, College Station, TX 77843

&

Online via Zoom**

****Zoom Link:** <https://tamu.zoom.us/j/96785841829>

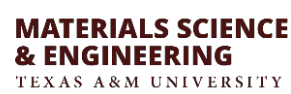
Meeting ID: 967 8584 1829

Passcode: CMS3

Module 1 – Atomistic

Monday | July 24, 2023 | Alloy Theory

8:00 AM Breakfast
8:30 Introduction to the 2023 Summer School
9:00 Anton Van Der Ven, Univ. of California, Santa Barbara, US
& Brian Puchala
10:30 Break
10:45 Lecture – continued
12:45 PM Lunch
2:00 Instructional Lab
3:30 Break
3:45 Instructional Lab – continued
5:00 Adjourned



Tuesday | July 25, 2023 | Atomistic simulations: the very good, the bad, and the ugly

8:30 AM	Breakfast
9:00	William Curtin , Brown University, US & Xin Liu
10:30	Break
10:45	Lecture - continued
12:45 PM	Lunch
2:00	Instructional Lab
3:30	Break
3:45	Instructional Lab – continued
5:00	Adjourned

Module 2 – Mesoscale

Wednesday | July 26, 2023 | FFT-based Homogenization

8:30 AM	Breakfast
9:00	Javier Segurado , Universidad Politécnica de Madrid, Spain
10:30	Break
10:45	Lecture - continued
12:45 PM	Lunch
2:00	Instructional Lab
3:30	Break
3:45	Instructional Lab – continued
5:00	Adjourned

Thursday | July 27, 2023 | Dislocation Dynamics

8:30 AM	Breakfast
9:00	Nicolas Bertin , Lawrence Livermore National Lab, US
10:30	Break
10:45	Lecture - continued
12:45 PM	Lunch
2:00	Instructional Lab
3:30	Break
3:45	Instructional Lab – continued
5:00	Adjourned



Friday | July 28, 2023 | Crystal Plasticity

8:30 AM	Breakfast
9:00	Shailendra Joshi , University of Houston, US
10:30	Break
10:45	Lecture - continued
12:45 PM	Lunch
2:00	Instructional Lab
3:30	Break
3:45	Instructional Lab – continued
5:00	Adjourned

Saturday | July 29, 2023 | Weekend

Sunday | July 30, 2023 | Weekend

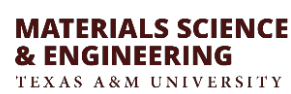
Module 3 – Continuum

Monday | July 31, 2023 | Phase Field Modeling

8:30 AM	Breakfast
9:00	Michael Tonks , University of Florida, US
10:30	Break
10:45	Lecture - continued
12:45 PM	Lunch
2:00	Instructional Lab
3:30	Break
3:45	Instructional Lab – continued
5:00	Adjourned

Tuesday | August 1, 2023 | Cracks and Fracture

8:30 AM	Breakfast
9:00	Amine Benzerga , Texas A&M University Yazid Madi & Jean-Michel Scherer , MINES ParisTech, France
10:30	Break
10:45	Lecture - continued
12:45 PM	Lunch
2:00	Instructional Lab
3:30	Break
3:45	Instructional Lab – continued
5:00	Adjourned



Module 4 – Informatics

Wednesday | August 2, 2023 | Machine Learning Best Practices & Fundamentals for Materials Science

8:30 AM	Breakfast
9:00	Taylor Sparks, University of Utah, US – Virtual Instructor
10:30	Break
11:00	Instructional Lab
1:00 PM	Lunch
2:00	Adjourned

Thursday | August 3, 2023 | Machine Learning Assisted Alloy Design

8:30 AM	Breakfast
9:00	Dongwon Shin, Oak Ridge National Laboratory, US
10:30	Break
10:45	Lecture – continued
12:45 PM	Lunch
2:00	Instructional Lab
3:30	Break
3:45	Instructional Lab – continued
5:00	Adjourned

Friday | August 4, 2023 | Alloy Design

8:00 AM	Breakfast
8:30	Pedro Rivera-Diaz, Lancaster University, UK
10:30	Break
10:45	Lecture - continued
12:45 PM	Lunch
2:00	Instructional Lab
3:30	Break
3:45	Instructional Lab – continued
5:00	Adjourned

6:00 PM **Closing Dinner & Certificate Ceremony**
Location to be determined