

Summer School on Computational Materials Science Across Scales

College Station, Texas, USA

July 18-29, 2016

Program Schedule

Sunday – July 17, 2016

6:00 PM – Welcome Reception Meet & Greet – Activity Center, Gardens
Apartments (250 Calvin Moore Ave)

Monday - July 18, 2016

Classes will be held in Room 202 of the Reed-McDonald Building

8:30 AM – Introduction to the IIMEC Summer School

9:00 AM – Fodil Meraghni/Dimitris Lagoudas (ENSAM - ARTS ET METIERS
ParisTech/Texas A&M University): Micromechanics of
Heterogeneous Solids

12:45 PM – Lunch

Instructional Labs will be held in Room 2109 of the Chemistry Building-Chan Wing

2:00 PM – Instructional Lab

Tuesday - July 19, 2016

8:30 AM – Pedro Rivera/Raymundo Arroyave (University of Cambridge, UK/Texas
A&M University): Computational Thermodynamics/Kinetics

12:45 PM – Lunch

2:00 PM – Instructional Lab

Wednesday – July 20, 2016

8:30 AM – Jacques Besson/Amine Benzerga (MINES ParisTech/Texas A&M
University): Micromechanics of Fracture

12:45 PM – Lunch

2:00 PM – Instructional Lab

Thursday – July 21, 2016

8:30 AM – Jon Guyer (National Institute of Standards and Technology, USA):
Phase Field Method

12:45 PM – Lunch

2:00 PM – Instructional Lab

Friday – July 22, 2016

8:30 AM – Moono Rhee (Lawrence Livermore National Laboratory, USA): Discrete Dislocation Dynamics

12:45 PM – Lunch

2:00 PM – Instructional Lab

6:00 PM – Sponsored dinner for participants and instructors – Razzoo's Cajun Cafe

Saturday – July 23, 2016

Day trip to NASA Johnson Space Center in Houston, Texas, for interested participants (\$25/person)

Monday, July 25, 2016

8:30 AM – Anter El-Azab (Purdue University, USA): Continuum Dislocation Dynamics

12:45 PM – Lunch

2:00 PM – Instructional Lab

Tuesday - July 26, 2016

8:30 AM – Tahir Cagin (Texas A&M University, USA): Molecular Dynamics

12:45 PM – Lunch

2:00 PM – Instructional Lab

Wednesday - July 27, 2016

8:30 AM – David McDowell (Georgia Institute of Technology, USA): Basis for MD Simulations of Nanoscale Mechanisms and Nanostructured Materials/ Fundamentals of Multiscaling and Coarse Graining Methods

12:45 PM – Lunch

2:00 PM – Instructional Lab

Thursday - July 28, 2016

Students will spend the day in the lab to revisit the practical of their choosing for additional practice

8:30 AM – Lab time

12:15 PM – Group Photo (steps of the J.K. Williams Admin Bldg.)

12:45 PM – Lunch

2:00 PM – Lab time

Friday - July 29, 2016

8:30 AM – Peter Entel (University of Duisburg-Essen, Germany): Quantum
Mechanics

12:45 PM – Lunch

2:00 PM – Instructional Lab

6:00 PM – Sponsored dinner for participants and instructors – Paolo's Italian
Kitchen