

ICMR and NHSC Summer School on Materials and Structures for Hypersonic Flight  
 University of California, Santa Barbara  
 August 14 – August 26, 2011

WEEK 1	
Sunday, August 14, 2011 – Loma Pelona, Manzanita Village	
6:00 pm to 8:00 pm	Reception and Registration
Monday, August 15, 2011	
7:00 am to 8:00 am	Breakfast at the De La Guerra Dining Commons
8:00 am	General Welcome (ESB 1001)
8:30 am to 10:30 am	Brian Zuchowski - Hypersonic Vehicle Airframe Metallic Design Considerations
10:30 am to 10:45 am	Break
10:45 am to 12:45 pm	Rishi Raj - Polymer Derived Ceramics: Synthesis, Nanostructure and Properties
12:45 pm to 1:45 pm	Lunch at De La Guerra Dining Commons
1:45 pm to 2:45 pm	Discussion with speakers
2:45 pm to 3:00 pm	Break – Group Photoshoot
3:00 pm to 5:00 pm	Natasha Vermaak – Materials Selection for Scramjet Combustors (ESB 1001)
5:30 pm to 6:30 pm	Dinner at the Carrillo Dining Commons
Tuesday, August 16, 2011	
7:30 am to 8:30 am	Breakfast at the De La Guerra Dining Commons
8:30 am to 10:30 am	Kevin Bowcutt - Hypersonics, The Last Frontier of Aeronautics
10:30 am to 10:45 am	Break
10:45 am to 12:45 pm	Bill Fahrenholtz - Ultra-High Temperature Ceramics for Hypersonic Applications
12:45 pm to 1:45 pm	Lunch at the De La Guerra Dining Commons
1:45 pm to 2:45 pm	Discussion with speakers
2:45 pm to 3:00 pm	Break
3:00 pm to 5:00 pm	Chris Torbet (Eng 2 Room 3519) Group 1: Last names A-K Greg Morscher Lab tours/demos (ESB 1001) Group 2: Last names L-Z
5:30 pm to 6:30 pm	Dinner at the Carrillo Dining Commons
Wednesday, August 17, 2011	
7:30 am to 8:30 am	Breakfast at the De La Guerra Dining Commons
8:30 am to 10:30 am	Tap Parthasarathy – Predicting the life of UHTCs under extreme environment
10:30 am to 10:45 am	Break
10:45 am to 12:45 pm	Beth Opila - Oxidation mechanisms with applications for hypersonics materials

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	and structures
12:45 pm to 1:45 pm	Lunch at the De La Guerra Dining Commons
1:45 pm to 2:45 pm	Discussion with speakers
2:45 pm to 3:00 pm	Break
3:00 pm to 5:00 pm	Student Poster Session – I (ESB Courtyard, outside of ESB 1001)
5:30 pm to 6:30 pm	Dinner at the Carrillo Dining Commons
Thursday, August 18, 2011	
7:30 am to 8:30 am	Breakfast at the De La Guerra Dining Commons
8:30 am to 10:30 am	Ian Sinclair - Applications of X-ray computed tomography to damage in composite materials
10:30 am to 10:45 am	Break
10:45 am to 12:45 pm	Greg Morscher – Acoustic Emission as a CMC Characterizations Tool
12:45 pm to 1:45 pm	Lunch at the De La Guerra Dining Commons
1:45 pm to 2:45 pm	Discussion with speakers
2:45 pm to 3:00 pm	Break
3:00 pm to 5:00 pm	Chris Torbet (Eng 2 Room 3519) <i>Group 2: Last Names L-Z</i> Greg Morscher - Lab tours/demos (ESB 1001) <i>Group 1: Last names A-K</i>
6:30 pm to 8:30 pm	Dinner at El Paseo Restaurant – downtown Santa Barbara
Friday, August 19, 2011 – Free Day	
8:00 am to 9:00 am	Breakfast at Carrillo Dining Commons
12:30 pm to 1.30 pm	Lunch at the De La Guerra Dining Commons
5:30 pm to 6:30 pm	Dinner at Carrillo Dining Commons
Saturday, August 20, 2011 – Free Day	
8:00 am to 9:00 am	Breakfast at the Carrillo Dining Commons
5:30 pm to 6:30 pm	Dinner at the Carrillo Dining Commons

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WEEK 2	
Sunday, August 21, 2011 – Free Day	
8:00 am to 9:00 am	Breakfast at the Carrillo Dining Commons
5:30 pm to 6:30 pm	Dinner at the Carrillo Dining Commons
Monday, August 22, 2011	
7:30 am to 8:30 am	Breakfast at the De La Guerra Dining Commons
8:30 am to 10:30 am	Tresa Pollock - Actively cooled metallics for Hypersonics
10:30 am to 10:45 am	Break
10:45 am to 12:45 pm	Craig Steeves - Material selection and optimal design of hypersonic thermal protection systems
12:45 pm to 1:45 pm	Lunch at the De La Guerra Dining Commons
1:45 pm to 2:45 pm	Discussion with speakers
2:45 pm to 3:00 pm	Break
3:00 pm to 5:00 pm	Mark Novak Lab Tour/demo (MPL-E2 2157) <i>Group 1: Last names A-K</i> McLean Echlin Lab tours/demos (ESB 1001) <i>Group 2: Last names L-Z</i>
5:30 pm to 6:30 pm	Dinner at the Carrillo Dining Commons
Tuesday, August 23, 2011	
7:30 am to 8:30 am	Breakfast at the De La Guerra Dining Commons
8:30 am to 10:30 am	David Marshall – CMCs for Hypersonics
10:30 am to 10:45 am	Break
10:45 am to 12:45 pm	Brian Cox - Simulation as a Substitute for Reality
12:45 pm to 1:45 pm	Lunch at the De La Guerra Dining Commons
1:45 pm to 2:45 pm	Discussion with speakers
2:45 pm to 3:00 pm	Break
3:00 pm to 5:00 pm	Student Poster Session – II (ESB Courtyard)
5:30 pm to 6:30 pm	Dinner at the Carrillo Dining Commons
Wednesday, August 24, 2011	
7:30 am to 8:30 am	Breakfast at the De La Guerra Dining Commons
8:30 am to 10:30 am	Michael Smart – Challenges in Hypersonic Flight
10:30 am to 10:45 am	Break
10:45 am to 12:45 pm	David Van Wie – Developments in Hypersonic Materials and Structures

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12:45 pm to 1:45 pm	Lunch at the De La Guerra Dining Commons
1:45 pm to 2:45 pm	Discussion with speakers
2:45 pm to 3:00 pm	Break
3:00 pm to 5:00 pm	Mark Novak Lab tour/demo (MPL-E2 2157) <i>Group 2: Last names L-Z</i> McLean Echlin Lab tours/demos (ESB 1001) <i>Group 1: Last names A-K</i>
5:30 pm to 7:30 pm	BBQ at Goleta Beach – Area A
Thursday, August 25, 2011	
7:30 am to 8:30 am	Breakfast at the De La Guerra Dining Commons
8:30 am to 10:30 am	Carlos Levi – Coatings for Hypersonics
10:30 am to 10:45 am	Break
10:45 am to 12:45 pm	Frank Zok
12:45 pm to 1:45 pm	Lunch at the De La Guerra Dining Commons
1:45 pm to 2:45 pm	Discussion with speakers
2:45 pm to 3:00 pm	Break
3:00 pm to 3:30 pm	ICMR Evaluation – LSIT Lab (SSMS 1301/1302)
5:30 pm to 6.30 pm	Dinner at the Carrillo Dining Commons
Friday, August 26, 2011	
8:00am to 9:00 am	Breakfast at Carrillo Dining Commons
8:00am to 12:00pm	Check out from Manzanita Village