

**Materials Science in Extreme Environments University Research Alliance
Annual Technical Review [Virtual]**

June 22-24, 2021
Agenda (version v6)

Tuesday, June 22, 2021 (all times Eastern), **Focus: State of MSEE, RA1, RA4**

Time	Topic	Presenter(s)
11:00-11:10	Welcome	Tim Weihs/Mike Robinson
11:10-11:20	Remarks by DTRA Executive 1	TBD
11:20-11:50	State of the MSEE URA <ul style="list-style-type: none"> ▪ Goals, organizational structure, top-level highlights, metrics, and issues ▪ Workforce development activities 	Tim Weihs/Todd Hufnagel
11:50-12:00	RA1: Materials Properties and Failure Description (Introduction)	Todd Hufnagel/Jacob Calkins/Jeff Davis
80 min total	RA1-FA1: Materials Properties for Reducing Uncertainty	Jim Gaffney
		June Wicks
		Gena Miloshevsky
		Mike Shields
1:20-1:40	Brief Lunch Break	
80 min total	RA1-FA2: Materials Constitutive Models	Ryan Hurley
		Todd Hufnagel
		KT Ramesh
		Mike Shields
3:00-3:10	RA4: Photon-Material Interactions (Introduction)	Farhat Beg/Jacob Calkins
3:10-3:30	RA4-FA1: X-ray Induced Blow-off and Plasma	Gena Miloshevsky
110 min total	RA4-FA2: Direct Laser Impulse	Farhat Beg
		Javier Garay
		Hari Harilal
		Harry Radousky
		Sean Regan/Rick Spielman/Cliff Thomas (allocate 30 min)
5:20-5:30	Wrap-up and Adjourn for day 1	Tim Weihs/Mike Robinson

Wednesday, June 23, 2021 (all times Eastern), **Focus: RA3**

Time	Topic	Presenter(s)
11:00-11:10	Welcome	Tim Weihs/Mike Robinson
11:10-11:20	Remarks by DTRA Executive 2	TBD
11:20-11:30	RA3: Chemistry in Extreme Environments (Introduction)	Nick Glumac/Dave Petersen/Jeff Davis/Juli-Anna Johnson
160 min total	RA3-FA1: Nuclear Fireball Plasma Chemistry	Davide Curreli
		Ed Dreizin
		Nick Glumac
		Sivanandan Harilal
		Debbie Levin
		Mark Phillips
		Harry Radousky
	Raj Sinha	
20 min	Brief Lunch Break; during RA3-FA1	
140 min total	RA3-FA2: High Temperature Properties and Chemistry of Agents and Simulants	Hergen Eilers
		Ed Dreizin
		Nick Glumac
		Suresh Menon
		Mark Phillips
		Raj Sinha
	Tim Weihs	
5:50-6:00	Wrap-up and Adjourn for day 2	Tim Weihs/Mike Robinson

Thursday, June 24, 2021 (all times Eastern), **Focus: RA2, CCRI, MSEE Closing**

Time	Topic	Presenter(s)
11:00-11:10	Welcome	Tim Weihs/Mike Robinson
11:10-11:20	Remarks by DTRA Executive 3	TBD
11:20-11:30	RA2: Materials and Manufacturing for Synergistic Effects (Introduction)	Mike Zachariah/Jeff Davis/Juli-Anna Johnson
140 min total	RA2-FA2: Tailoring Chemistry via Materials	Mike Zachariah
		Ed Dreizin
		Lori Groven
		Lorenzo Mangolini
		Betsy Rice
		Tim Weihs
	Bryan Wong	
1:50-2:10	Brief Lunch Break	
60 min total	RA2-FA3: Characterize and Predict Physical/Chemical Effects in Turbulent Environments	Suresh Menon
		Tim Weihs
100 min total	Cross Cutting Research Initiatives (CCRI)	Mark Foster
		Mike Shields
		Brian Barnes
		Tim Mueller
		Todd Hufnagel
4:30-5:00	MSEE Closing and Adjourn annual meeting	Tim Weihs/Mike Robinson