

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

June 22-24, 2021
Agenda (version v8)

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 Chief, Enabling Capabilities Department, DTRA	Gary Hook
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 (Introduces RA and FAs)	Todd Hufnagel/Jacob Calkins/Jeff Davis
12:00-1:20	RA1-FA1: Materials Properties for Reducing Uncertainty	Jim Gaffney Gena Miloshevsky Mike Shields June Wicks
1:20-1:40	Brief Lunch Break	
1:40-3:00	RA1-FA2: Materials Constitutive Models	Ryan Hurley Todd Hufnagel KT Ramesh Mike Shields
3:00-3:10	RA4: Photon-Material Interactions (Introduce RA)	Farhat Beg/Jacob Calkins
3:10-3:30	RA4-FA1: X-ray Induced Blow-off and Plasma	Gena Miloshevsky
3:30-5:10	RA4-FA2: Direct Laser Impulse	Farhat Beg Javier Garay Hari Harilal Harry Radousky Rick Spielman
5:10-5:30	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	RA3: Chemistry in Extreme Environments (Introduces RA and FAs)	Nick Glumac/Dave Petersen/Jeff Davis/Juli-Anna Johnson
11:20-12:40	RA3-FA1: Nuclear Fireball Plasma Chemistry	Davide Curreli Sivanandan Harilal Mark Phillips Nick Glumac
12:40-1:00	Brief Lunch Break; during RA3-FA1	
1:00-2:20		Raj Sinha Harry Radousky Debbie Levin Ed Dreizin
2:20-4:45	RA3-FA2: High Temperature Properties and Chemistry of Agents and Simulants	Hergen Eilers (intro) Raj Sinha Suresh Menon Ed Dreizin Hergen Eilers Nick Glumac Tim Weihs Mark Phillips
4:45-5:00	Wrap-up and Adjourn for day 2	Tim Weihs/Mike Robinson

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

Time	Topic	Presenter(s)
11:00-11:10	Welcome	Tim Weihs/Mike Robinson
11:10-11:20	RA2: Materials and Manufacturing for Synergistic Effects (Introduces RA)	Mike Zachariah/Jeff Davis/Juli-Anna Johnson
11:20-12:30	RA2-FA2: Tailoring Chemistry via Materials	Mike Zachariah (intro) Ed Dreizin Tim Weihs Lori Groven
12:30-12:50	Brief Lunch Break; during RA2-FA2	
12:50-2:10		Bryan Wong Lorenzo Mangolini Mike Zachariah John Brennan
2:10-2:40	RA2-FA3: Characterize and Predict Physical/Chemical Effects in Turbulent Environments	Suresh Menon
2:40-4:00	Cross Cutting Research Initiatives (CCRI)	Mark Foster Todd Hufnagel Mike Shields Tim Mueller/Brian Barnes
4:00-4:30	Closing remarks and Adjourn review	Tim Weihs/Mike Robinson