

**Materials Science in Extreme Environments University Research Alliance**  
**Annual Technical Review**  
June 13-15, 2023  
Agenda

Tuesday, June 13, 2023 (all times Eastern), **Focus: State of MSEE, RA4, RA3:FA1, Poster Session**

Time	Topic	Presenter(s)
8:15-9:00	Registration & Continental Breakfast	
9:00-9:10	Welcome	Tim Weihs/Capt. Rafael Mata
9:10-9:20	Remarks by DTRA Leadership	TBD
9:20-9:30	Remarks by JHU Leadership	TBD
9:30-10:00	State of the MSEE URA <ul style="list-style-type: none"> <li>▪ Goals, organizational structure, top-level highlights, metrics, and issues</li> <li>▪ Workforce development activities</li> </ul>	Tim Weihs/Todd Hufnagel
10:00-10:10	Coffee Break	
10:10-10:15	RA4: Photon-Material Interactions (Introduces RA and FAs)	Farhat Beg/Jacob Calkins
10:15-10:35	RA4-FA1: X-ray Induced Blow-off and Plasma	Gena Miloshevsky
10:35-12:15	RA4-FA2: Direct Laser Impulse	Farhat Beg Javier Garay Hari Harilal Harry Radousky Rick Spielman
12:15-1:20	Lunch Break	
1:20-1:25	RA3: Chemistry in Extreme Environments (Introduces RA and FA1)	Nick Glumac/Dave Petersen
1:25-2:45	RA3-FA1: Nuclear Fireball Plasma Chemistry	Davide Curreli Hari Harilal Mark Phillips Nick Glumac
2:45-2:55	Coffee Break	
2:55-4:15	RA3-FA1: Nuclear Fireball Plasma Chemistry	Raj Sinha Harry Radousky Debbie Levin Ed Dreizin
4:30-6:00	Poster Session (Refreshments to be served)	Student, Postdocs, & Researchers
6:00	Wrap-up and adjourn for day 1	

Wednesday, June 14, 2023 (all times Eastern), **Focus: RA2, RA3:FA2, CCRI, Poster Session, Banquet**

Time	Topic	Presenter(s)
8:00-8:50	Welcome & Continental Breakfast	
8:50-8:55	RA3: Chemistry in Extreme Environments (Introduces RA and FA2)	Nick Glumac/ Jeff Davis/Juli-Anna Johnson
8:55-10:35	RA3-FA2: High Temperature Properties and Chemistry of Agents and Simulants	Hergen Eilers Nick Glumac Mark Phillips Tim Weihs K. Leslie Abdul-Aziz
10:35-10:45	Coffee Break	
10:45-12:05	RA3-FA2: High Temperature Properties and Chemistry of Agents and Simulants	Suresh Menon Ed Dreizin Gennady Gor Raj Sinha
12:05-1:15	Lunch Break	
1:15-1:20	RA2: Materials and Manufacturing for Synergistic Effects (Introduces RA and FA)	Mike Zachariah/Jeff Davis/Juli-Anna Johnson
1:20-2:20	RA2-FA2: Tailoring Chemistry via Materials	Mike Zachariah Ed Dreizin Tim Weihs
2:20 -2:25	Coffee Break	
2:25-3:45	RA2-FA2: Tailoring Chemistry via Materials	Lori Groven Bryan Wong Lorenzo Mangolini John Brennan/James Larentzos
3:45-3:50	Cross Cutting Research Initiatives (CCRI)	Mark Foster/Jeff Davis
3:50-5:10	Cross Cutting Research Initiatives	Mark Foster Todd Hufnagel Brian Barnes Vishal Patel
5:20-7:00	Poster session (Refreshments to be served)	Student, Postdocs, & Researchers
7:00-8:30	Banquet Dinner	

Thursday, June 15, 2022 (all times Eastern), **Focus: RA1, Closing remarks**

Time	Topic	Presenter(s)
8:15-8:50	Welcome & Continental Breakfast	
8:50-8:55	RA1: Materials Properties and Failure Description (Introduces RA and FAs)	Todd Hufnagel/Jacob Calkins/Jeff Davis
8:55-10:15	RA1-FA1: Materials Properties for Reducing Uncertainty	Jim Gaffney Gena Miloshevsky Mike Shields June Wicks
10:15-10:25	Coffee Break	
10:25-11:45	RA1-FA2: Materials Constitutive Models	Ryan Hurley Todd Hufnagel KT Ramesh Mike Shields
11:45-12:00	Closing remarks	Tim Weihs/Capt. Rafael Mata
12:00	Adjourn	