## Materials Science in Extreme Environments University Research Alliance Annual Technical Review

June 25-27, 2025 Agenda\_v12

Wednesday, June 25, 2025 (all times Eastern), Focus: State of MSEE, RA1, CCRI, Poster Session

Time	Topic	Presenter(s)	
8:30-9:15	Registration & Continental Breakfast	N. Z	
9:15-9:25	Welcome	Tim Weihs/Eric Riffle	
9:25-10:00	State of the MSEE URA	Tim Weihs/Todd Hufnagel	
	<ul> <li>Goals, organizational structure, top-level</li> </ul>		
	highlights, progress, and metrics		
10.00.10.10	Workforce development activities	Denis Wirtz	
10:00-10:10	Remarks by JHU Vice Provost for Research		
10:10-10:20	Remarks by DTRA Leadership	Ms. Richardson	
10:20-10:25	RA1: Materials Properties and Failure Description	Todd Hufnagel/Jacob Calkins/Jeff	
	(Introduces RA and FAs) RA1- FA1: Materials Properties for Reducing	Davis/Suzanne Kelly	
10:25-10:45	Five-year overview	Todd Hufnagel	
10:25-10:45	Coffee Break	Todd Hulliagei	
		T 11H C 1	
11:00-12:00	Annual update by individual PI	Todd Hufnagel Gena Miloshevsky	
		Mike Shields	
		Adib Samin	
12:00-1:15	Lunch Break		
RA1-FA2: Materials Constitutive Models			
1:15-1:35	Five-year overview	Ryan Hurley	
1:35-2:35	Annual update by individual PI	Ryan Hurley	
		Lie Yang (KT Ramesh)	
		Todd Hufnagel	
		Sprint Project (Hurley)	
2:35-2:50	Coffee Break		
	Cross Cutting Research Initiatives		
2:50-2:55	Cross Cutting Research Initiatives (CCRI)	Mark Foster/Jeff Davis/Dave	
2.55.2.15	(Introduces RA and FAs)	Petersen/Jacob Calkins	
2:55-3:15	Five-year Overview	Mark Foster	
3:15-4:15	Annual Update	Colin Goodman (Mark Foster) Mike Shields	
		Yilmaz Korkman (Vishal Patel)	
		Sprint Project (Yilmaz Korkmaz)	
4:15-4:35	Poster Session Overviews (2 minutes)	TBD students (6)	
	Students, Postdocs, and Congressionally funded PIs	Julie Skippers (AFIT)	
		Awotwi Baffoe (MSU)	
		Aiden Tomov (JHU)	
4:35-6:35	Poster Session (Refreshments to be served)	Student, Postdocs, & Researchers	
6:35	Adjourn day 1		

Thursday, June 26, 2025 (all times Eastern), Focus: RA3, RA4

Time	Topic	Presenter(s)	
8:15-9:00	Welcome & Continental Breakfast		
9:00-9:05	RA3: Chemistry in Extreme Environments	Nick Glumac/Dave Petersen/Jeff	
	(Introduces RA and FAs)	Davis/Suzanne Kelly	
RA3-FA1: Nuclear Fireball Plasma Chemistry			
9:05-9:25	Five-year Overview	Davide Curreli	
9:25-10:25	Annual Update	Davide Curreli	
		Mark Phillips	
		Nick Glumac	
		Mike DeMagistris (Raj Sinha)	
10:25-10:40	Coffee Break		
10:40-11:40	Annual Update	Harry Radousky/Emily Weerakkody	
		Debbie Levin	
		Hari Harilal	
		Sprint Project (Glumac)	
11:40-12:55	Lunch Break		
12:55-1:00	RA4: Photon-Material Interactions (Introduces RA	Farhat Beg/Jacob Calkins	
	and FAs)		
RA4-FA1: X-ray Induced Blow-off and Plasma		•	
1:00-1:15	Five-year Overview	Gena Miloshevsky	
1:15-1:30	Annual Update	Gena Miloshevsky	
RA4-FA2: Direct Laser Impulse			
1:30-1:50	Five-year Overview	Farhat Beg	
		_	
1:50-2:35	Annual Update	Farhat Beg	
		Javier Garay	
		Harry Radousky	
2:35-2:50	Coffee Break		
2:50-3:35	Annual Update	Jeffrey Rowland (Spielman group)	
		Mathew Polek (Hari Harilal)	
		Sprint project (Beg)	
3:35-3:55	Poster Session Overviews	TBD students (7)	
	Students, Postdocs, and Congressionally-funded PIs	Jochen Mueller (JHU)	
		Paulette Clancy (JHU)	
3:55-5:55	Poster session (Refreshments to be served)	Student, Postdocs, & Researchers	
6:00-8:00	Banquet Dinner	Speaker Sarah Mineiro	

Friday, June 27, 2025 (all times Eastern), Focus: RA2, RA3, Closing remarks

Time	Topic	Presenter(s)		
8:15-9:00	Welcome & Continental Breakfast			
9:00-9:05	RA2: Materials and Manufacturing for Synergistic Effects (Introduces RA and FA)	Mike Zachariah/Jeff Davis/Suzanne Kelly		
RA2-FA2: Tailoring Chemistry via Materials				
9:05-9:25	Five-year Overview	Mike Zachariah		
9:25-10:40	Annual Update	Mike Zachariah Ed Dreizin Ruku Borah (Tim Weihs) Lori Groven Lorenzo Mangolini		
10:40-10:55	Coffee Break			
10:55-11:00	RA3-FA2: High Temperature Properties and Chemistry of Agents and Simulants (Introduces RA and FAs)	Nick Glumac/Hergen Eilers/Jeff Davis		
RA3-FA2: High Temperature Properties and Chemistry of Agents and Simulants				
11:00-11:20	Five-year Overview	Hergen Eilers		
11:20-12:05	Annual Update	Hergen Eilers Nick Glumac Mark Phillips		
12:05-1:20	Lunch Break			
1:20-2:05	Annual Update	Tim Weihs Bryan Wong Ed Dreizin		
2:05-2:20	Coffee Break			
2:20-3:05	Annual Update	Andrea Zambon (Raj Sinha) Suresh Menon Gennady Gor		
3:05-3:30	Closing remarks	Tim Weihs/Eric Riffle		