Materials Science in Extreme Environments University Research Alliance
Annual Technical Review
June 11-13, 2024
Agenda

Tuesday, June 11, 2024 **(**all times Eastern), **Focus: State of MSEE, RA2, RA3:FA2, Networking Sessions**

Time	Topic	Presenter(s)
8:00-8:50	Registration & Continental Breakfast	
8:50-9:00	Welcome	Tim Weihs
9:00-9:10	Remarks by Dean of JHU School of Engineering	Ed Schlesinger
9:10-9:30	Remarks by DTRA's Director of RD	Ben Petro
9:30-10:00	State of the MSEE URA ▪ Goals, organizational structure, top-level highlights, metrics, and issues ▪ Workforce development activities	Tim Weihs/Todd Hufnagel
10:00-10:05	RA2: Materials and Manufacturing for Synergistic Effects (Introduces RA and FA)	Mike Zachariah/Jeff Davis
10:05-11:10	RA2-FA2: Tailoring Chemistry via Materials	Mike Zachariah Ed Dreizin Tim Weihs
11:10-11:20	Coffee Break	
:11:20-12:40	RA2-FA2: Tailoring Chemistry via Materials	Lori Groven Bryan Wong Lorenzo Mangolini John Brennan/James Larentzos
12:40-1:45	Lunch Break	
1:45-1:50	RA3: Chemistry in Extreme Environments (Introduces RA and FA2)	Hergen Eilers/Nick Glumac/Jeff Davis
1:50-3:30	RA3-FA2: High Temperature Properties and Chemistry of Agents and Simulants	K. Leslie Abdul-Aziz Gennady Gor Ed Dreizin Natalie Gese (Eilers group) Ruku Borah (Weihs group)
3:30-3:40	Coffee Break	
3:40-5:00	RA3-FA2: High Temperature Properties and Chemistry of Agents and Simulants	Mark Phillips Nick Glumac Achyut Panchal (Menon group) Andrea Zambon (CRAFT Tech)
5:00-5:10	Career Development and Networking introduction	MG Randy Manner
5:10-6:30	Career Development Session (Refreshments to be served)	Student, Postdocs, & MG Randy Manner
5:10-6:30	Networking Session (Refreshments to be served)	All others
6:30	Adjourn for day 1	

Wednesday, June 12, 2024 **(**all times Eastern), **Focus: RA1, RA4, CCRI, Poster Session, Banquet**

Time	Topic	Presenter(s)
8:00-9:00	Welcome & Continental Breakfast	
9:00-9:05	RA1: Materials Properties and Failure Description (Introduces RA and FAs)	Todd Hufnagel/Jacob Calkins/Jeff Davis
9:05-10:30	RA1-FA1: Materials Properties for Reducing Uncertainty	Jim Gaffney Gena Miloshevsky Mike Shields June Wicks
10:30-10:40	Coffee Break	
10:40-12:05	RA1-FA2: Materials Constitutive Models	Ryan Hurley Todd Hufnagel KT Ramesh Mike Shields
12:05-1:15	Lunch Break	
1:15-1:20	RA4: Photon-Material Interactions (Introduces RA and FAs)	Farhat Beg/Jacob Calkins
1:20-1:40	RA4-FA1: X-ray Induced Blow-off and Plasma	Gena Miloshevsky
1:40-3:20	RA4-FA2: Direct Laser Impulse	Farhat Beg Javier Garay Hari Harilal Mike Armstrong (Radousky Group) Tirtha Joshi (Spielman Group)
3:20-3:30	Coffee Break	
3:30-3:35	Cross Cutting Research Initiatives (CCRI)	Mark Foster/Jeff Davis
3:35-4:55	Cross Cutting Research Initiatives	Mark Foster Todd Hufnagel Vishal Patel Brian Barnes
5:00-6:30	Poster session (Refreshments to be served)	Student, Postdocs, & Researchers
7:00-8:30	Banquet Dinner	

Thursday, June 13, 2024 (all times Eastern), **Focus: RA3:FA1, Closing remarks**

Time	Topic	Presenter(s)
8:15-9:00	Welcome & Continental Breakfast	
9:00-9:05	RA3: Chemistry in Extreme Environments (Introduces RA and FA1)	Nick Glumac/Dave Petersen
9:05-10:25	RA3-FA1: Nuclear Fireball Plasma Chemistry	Davide Curreli Hari Harilal Mark Phillips Nick Glumac
10:25-10:35	Coffee Break	
10:35-11:35	RA3-FA1: Nuclear Fireball Plasma Chemistry	CRAFT Tech Mike Armstrong (Radousky Group) Debbie Levin
11:35-11:50	Final Remarks	Tim Weihs
11:50-1:00	Working Lunch	
1:00	Adjourn	