MSEE-URA 2023 ATR Poster Session – Day 1
Tuesday, June 13, 2023

	POSTER #	CODE	TITLE	PRESENTER
		RESEARCH AREA 4		
	1A	RA4-FA1_Miloshevsky	Investigation of Femtosecond Laser-Produced Si and Al…	Youssef Abouhussien
	2A	RA4-FA2_Garay	Metal and Semiconductor Targets for Laser-Material Interact…	Javier Garay
	3A	RA4-FA2_Radousky	The Optical Science Laser	Sophie Parsons
	4A	RA4-FA2_Spielman	Observation of Laser Ablation and Shock Generation in Silic…	Tirtha Joshi
	5A	RA4-FA2_Harilal	Direct laser impulse– PNNL progress	Matthew Polek
		RESEARCH AREA 3 – FOCUS AREA 1		
	6A	RA3-FA1_Harilal	Nuclear Fireball Plasma Chemistry – PNNL progress	Matthew Polek
	7A	RA3-FA1_Curreli	Implementation of a semi-classical solver for scattering cross...	Stephen Armstrong
	8A	RA3-FA1_Curreli	Artificial Neural Networks for Rate Prediction in U-O Plasma…	Steven Marcinko
	9A	RA3-FA1_Dreizin	X-ray phase contrast imaging of powders exposed to ESD…	Shomik Mukhopadhyay
	10A	RA3-FA1_Glumac	Nuclear Fireball-Related Plasma Sources and Spectroscopy	Austin Butler
	11A	RA3-FA1_Levin	Study of particle dispersion in shock-dominated flows using...	Akhil Marayikkottu Vijayan
	12A	RA3-FA1_Phillips	Ultraviolet Absorption Spectroscopy of Neutral and Ionized…	John McCauley
	13A	RA3-FA1_Phillips	Molecular Absorption Spectroscopy in Laser Induced Plasmas	Ryland Wala
	14A	RA3-FA1_Sinha	Spectral Modeling Tool Development to Aid in Understanding...	Michael DeMagistris
		RESEARCH AREA 1		
	15A	RA1-FA1_Wicks	Uncertainty quantification in shock compression experiments	Zixuan Ye
	16A	RA1-FA1_Miloshevsky	Modeling the EOS of Carbon in Extreme Environments	Juniper Savchick
	17A	RA1-FA1_Shields	Thermodynamically constrained machine learned Equation of...	Himanshu Sharma
	18A	RA1-FA1_Samin	Towards a computational understanding of materials under…	Adib Samin
	19A	RA1-FA2_Hurley	Breakage and Flow Fields of Ottawa Sand During Dynamic…	Brett Kuwik
	20A	RA1-FA2_Hufnagel	Characterization of Geomaterials Before and During Dynamic…	Kevin Hom
	21A	RA1-FA2_Ramesh	Constitutive Modeling of Brittle Rocks and Granular Solids: …	Aaron Baumgarten
		CROSS CUTTING RESEARCH INITIATIVE		
	23A	CCRI_Foster	Time Lens Photon Doppler Velocimetry (TL-PDV) for Extreme..	Velat Kilic
	24A	CCRI_Patel	Unsupervised Detection of Particles	Deepti Hegde
	25A	CCRI_Hufnagel	A XPCI-DGS integrated technique for measuring dynamic…	Liuchi Li
	26A	CCRI_Mueller	Automated Characterization of Metal Composite Combustion…	Phil Wang

MSEE-URA 2023 ATR Poster Session – Day 2
Wednesday, June 14, 2023

	POSTER #	CODE	TITLE	PRESENTER
		RESEARCH AREA 3 – FOCUS AREA 2		
	1B	RA3-FA2_Eilers	Reference Measurements for DIMP Decomposition Products…	Natalie Gese
	2B	RA3-FA2_Eilers	Thermal decomposition of MPA, a decomposition product of…	Natalie Gese
	3B	RA3-FA2_Glumac	Explosive Decomposition of DIMP in Chamber Tests at UIUC	Austin Butler
	4B	RA3-FA2_Menon	Experimental & Numerical Studies to Enhance Turbulent…	Achyut Panchal
	5B	RA3-FA2_Phillips	Swept-wavelength external cavity quantum cascade lasers for...	Mark Phillips
	6B	RA3-FA2_Sinha	Towards Higher-Fidelity Computationally-Tractable Chemistry...	Andrea Zambon
	7B	RA3-FA2_Dreizin	Thermal Decomposition of Diisopropyl Methylphosphonate…	Elif Irem Senyurt
	8B	RA3-FA2_Dreizin	Fluid properties of CWA surrogates	Mirko Schoenitz
	9B	RA3-FA2_Dreizin	Removal of DIMP from heated oxide surfaces with focus on…	Swapnil Das
	10B	RA3-FA2_Abdul-Aziz	In situ DRIFTS Study of DIMP Degradation with Doped…	Tu Nguyen
	11B	RA3-FA2_Abdul-Aziz	Study of DIMP adsorption/desorption and consumption over…	Bruno Arpini
		RESEARCH AREA 2		
	12B	RA2-FA2_Zachariah	Decomposition mechanism of metal iodates and combustion…	Yujie Wang
	13B	RA2-FA2_Zachariah	Fabrication and Combustion Behavior of Highly Reactive…	Erik Hagen
	14B	RA2-FA2_Dreizin	Effect of morphology of B·KNO3 composite powders on their...	Purvam Ghandi
	15B	RA2-FA2_Dreizin	Improving performance of ammonium nitrate as an oxidizer…	Purvam Ghandi
	16B	RA2-FA2_Dreizin	Reactive Ni·Al composite powders with tunable morphology	Jonathan McNanna
	17B	RA2-FA2_Gor	Molecular Dynamics Predictions of Viscosity for Organopho…	Ella Ivanova
	18B	RA2-FA2_Groven	Ionic co-crystals for in-situ nanooxide generation	Tristan Kenny
	19B	RA2-FA2_Groven	Rheology and Processing of Al:Zr particulates for Reactive…	Trigg Peasley
	20B	RA2-FA2_Mangolini	Plasma-enhanced Deposition of a Fluorocarbon Shell on Sili…	Lorenzo Mangolini
	21B	RA2-FA2_Wong	Ab Initio Molecular Dynamics Calculations of DIMP and Sarin...	Sohag Biswas
	22B	RA2-FA2_Weihs	Ignition and Combustion of Al/Zr composite powders in vari…	Michael Flickinger
	23B	RA2-FA2_Weihs	Impact of milling conditions on titania based thermites using…	Amee Polk
	24B	RA2-FA2_Weihs	Characterization and Strain-rate Effects of Swaged Aluminum...	Jesse Grant
	25B	RA2-FA2_Weihs	Tuning Ignition of Al-B-Ti Composite Ball-Milled Powders…	Megan Bokhoor
		CROSS CUTTING RESEARCH INITIATIVE		
	26B	CCRI_Foster	Integrated Field Spectroscopy for Hyperspectral Imaging of…	Colin Goodman
	27B	CCRI_Hufnagel	First single-bunch x-ray phase-contrast imaging experiments...	Todd Hufnagel
	28B	CCRI_Shields	UQ Efforts in CCRI	Dimitris Tsapetis