AGENDA

NDE of AMT Technical Exchange

NRC Headquarters, 11555 Rockville Pike, Rockville, MD 20852

Day 1 (May 2, 2023)

Speaker	Organization	Title	Time		
Isaac Anchondo	-	Welcome/Introductions/			
Rob Tregoning	NRC	Opening remarks	9:00-9:15		
David Rudland	NRC	NRC perspective on	9:20-10:00		
John Wise		NDE of AMT	9.20-10.00		
William Chuirazzi	Idaho National	DOE AMMT Efforts on			
	Lab, Pacific	Non-Destructive			
Robert Montgomery	Northwest National	Evaluation for	10:00-10:40		
Amir Ziabari	Lab, and Oak Ridge National	Additively Manufactured Nuclear			
	Lab	Components			
		reak			
		Ultrasonic NDE for			
	University of Nebraska-Lincoln	metal additive			
Joseph Turner		manufacturing: impact	11:00-11:40		
		of microstructure			
	Pennsylvania State University	In process and post-	11:40-12:20		
Christopher Kube		build NDE of powder			
		bed fusion Gr-91			
		stainless steel			
	Li	unch			
		An update on			
Jesse Waller	NMSU	ANSI/America Makes	1:40-2:20		
		AMSC NDE Gap			
		progress Characterization of			
		Additively			
	Sandia National Laboratories	Manufactured Samples	2:20-3:00		
David Moore		with Mechanical			
		Testing and			
		Nondestructive			
		Inspection Techniques:			
		A Path Forward for			
		Qualification			
Break					
Dieak					

Alexander Heifetz	Argonne National Laboratory	Detection of Microscopic Subsurface Defects in Metals with Unsupervised Learning of Pulsed Infrared Thermography Images	3:20-4:00
Pingsha Dong	University of Michigan	Effects of distributed defects and interactions on fatigue behavior of AM components and a zone-based NDE methodology	4:00-4:40

Day 2 (May 3, 2023)

Speaker	Organization	Title	Time	
Steve Mahaut	CEA-LIST	NDE and monitoring for AM parts and process	9:00-9:40	
Udisien Woy	Nuclear Advanced Manufacturing Research Centre	A systemic perspective on developing non- destructive evaluation (NDE) strategies for additive manufacturing (AM) applications in nuclear.	9:40-10:20	
Break				
Ron Aman	EWI	Considerations and Experience Applying NDE to AM Materials and Components	10:40-11:30	
George Connolly	Electric Power Research Institute, Inc.	UT and FMC/TFM for Additively- Manufactured Components: Recent Experiences	11:30-12:10	
Lunch				

Andrew Gavens	Naval Nuclear Laboratory	Using Process Compensated Resonance Testing to Differentiate Laser Powder Bed Fusion Additively Manufactured	1:30-2:10	
		Witness Coupons Produced With Varying Process Parameters		
Adam Wick	Naval Nuclear Laboratory	Embedding Surface- connected Cracks in 316L Stainless Steel Laser Powder Bed Fusion Manufactured Pipe Specimens for Qualification of Phased Array Ultrasonic Testing Inspection Techniques	2:10-2:50	
	Bre	eak		
Peter Collins	lowa State University	On the process- structure-property- performance for additively manufactured titanium alloys	3:10-3:50	
Reza Zoughi Peter Collins	lowa State University	A Vision for Comprehensively Bringing Additive Manufacturing (AM) and Nondestructive Evaluation (NDE) together in a National Testbed	3:50-4:30	
NRC Wrap-up/Open Discussion/Adjourn				