## 4-7-4 JLR-1 SHM Session Celebrating Joe Rose's accomplishments in ultrasonics (tentatively Monday am)

No.	Authors	Affiliations	Title
961	Joseph L Rose	Penn State	Ultrasonic guided wave success stories and challenges in NDT and SHM
	396 Weibin Li, <b>Younho Cho</b> , Jaesun Lee, Ik-Keun Park	Pusan National Univ.,	The effect of heat treatment on
396		Seoul National Univ.	acoustic nonlinear parameters of
		of Technology	Inconel
384	<b>Huidong Gao</b> , Borja Lopez,	Innerspec	Inline testing of ERW tubes using
	Syed Ali, John Flora, Jeffrey	Technologies,	ultrasonic quided wave EMATS
	Monks	Monks	uitrusonic guidea wave LiviA13
1329	Jason K Van Velsor, Joseph L	FBS Inc, Penn State	Circumferential guided wave methods
	Rose, Li Zhang		for the in-line inspection of pipe

## 4-7-5 JLR-2 SHM Session Celebrating Joe Rose's accomplishments in ultrasonics (tentatively Monday pm)

No.	Authors	Affiliations	Title
765	Ajit Mal	UCLA	Guided wave based health monitoring of
703			composite structures
964 <b>Jo</b>	John Popovics	University of Illinois at	Developments in sensing and imaging for civil
	John Popovics	Urbana-Champaign	structures
553	Fei Yan	FBS Inc	Nondestructive evaluation of a boiler tube with
			wall thinning using ultrasonic guided waves
1278	Xiaoliang (George)	Intelligent Automation	Wireless guided wave transducer network for
12/8	Zhao	Inc	bridge structural health monitoring
320	Cliff Lissenden,	Penn State	Health monitoring of aluminum joint with
	Hwanjeong Cho	reiiii State	fasteners using guided waves

## 4-7-6 JLR-3 SHM Session Celebrating Joe Rose's accomplishments in ultrasonics (tentatively Monday pm)

No.	Authors	Affiliations	Title
466	Jin-Yeon Lim, Laurence Jacobs,  Jianmin Qu	Georgia Tech, Northwestern University	Higher order harmonics and their applications in nondestructive damage assessment in metallic materials
630	Bernhard R Tittmann, Manton J Guers, Cliff Searfass, David Parks	Penn State	Ultrasonic sensors for harsh environments
840	<b>Jing Mu</b> , Li Zhang	FBS Inc	Guided wave active and synthetic focusing techniques in pipe inspection
1375	Ajit Mal, Fabrizio Ricci, Ernesto Monaco, Leonardo Lecce, Simone Tancredi, Sauvik Banerjee	UCLA, University of Naples Federico II, IIT Bombay	Simulation and testing of ultrasonic guided waves for PZT based sensing of structural components and damage detection
1377	Padmakumar Puthillath, Cliff J Lissenden, Joseph L Rose	Penn State	Theoretically driven parameter selection for ultrasonic guided wave inspection of adhesive bonding

# 4-7-7 JLR-4 SHM Session Celebrating Joe Rose's accomplishments in ultrasonics (tentatively Tuesday am)

No.	Authors	Affiliations	Title
			Piezoelectric wafer active sensors for
498	Victor Giurgiutiu	University of South Carolina	structural health monitoring – state of the
			art and future directions
	Debaditya Dutta,	Carnegie Mellon University,	A non-contact structural health monitoring
1076	Hoon Sohn, Jin Y	Korea Advanced Institute of	system through laser based excitation and
	Yang	Science and Technology	sensing of ultrasonic guided waves
1323	Roger Royer, Fei		Ultrasonic quided waves for large area
	Yan, Joseph L	FBS Inc, Penn State	structural health monitoring
	Rose		structural nearth monitoring
	Manton J Guers,		Guided waves for in-situ monitoring of
439	Bernhard R	Penn State	specimens in reactor environments
	Tittmann		specimens in reactor environments
1384	Jaya Koduru,	Penn State	Defect detection in composite structures
	Joseph L Rose	reiiii State	using guided wave phased arrays

## 4-7-1 SHM-1 Structural Health Monitoring (tentatively Tuesday pm)

No.	Authors	Affiliations	Title
1350	<b>Joseph Cusumano</b> , Arjun Roy, Sergey G Abaimov	Penn State	Simulated space-time failure statistics for a new coupled-field damage model
550	<b>Brandon Zwick</b> , Douglas E Adams, Dave J Koester	Purdue University	Structural health monitoring in composite materials using vibration reciprocity measurements
1197	<b>David Johnson</b> , KW Wang, Jun-Sik Kim	University of Michigan, Kumoh National Institute of Technology	Determining a proper interrogation signal for use in a nonlinear, breathing crack detection technique
548	Jacob Loverich, Michael Grissom, Joe Szefi, Steve Wenner, Zach Fuhrer	KCF Technologies, Invercon, Lord Corporation	Smart rodend with embedded wireless load sensing
1325	Karl Reichard, Brenton Forshey, Eli Hughes, Mark Turner	Penn State	Wireless monitoring of wind turbine blade health

# 4-7-2 SHM-2 Structural Health Monitoring (tentatively Tuesday pm)

No.	Authors	Affiliations	Title
421	Jandro L Abot, Mark J Schulz, Vesselin N Shanov, Yi Song, Maruthi Srivatsavaya	University of Cincinnati	Mode II delamination detection in composite materials using carbon nanotube sensor thread
1060	<b>Wonchang Choi</b> , Hyun-Do Yun	North Carolina A&T State University, Chungnam National University	Flexural damage evaluation of reinforced concrete beams strengthened with CFRP
1348	Kimberly Cook-Chennault, David Cosaboon, Mickey Whitzer, Danielle Castley	Rutgers, Drexel University	Enhanced output voltage and power from aluminum-PZT-Portland cement composites
322	<b>Mykanth R Mada</b> , Sri Bandyopadhyay	University of New South Wales	Development of activated charcoal- PMMA composites with superior electrical conductivity and surface hardness properties
1438	<b>Ik-Keun Park</b> , Kyoung Young Jhang, Tae Hoon Lee, Chung Seok Kim	Seoul National University of Technology, Hanyang University	Defects characterization for structural health monitoring using classical and nonclassical nonlinear acoustics

## 4-7-3 SHM-3 Structural Health Monitoring (tentatively Wednesday am)

No.	Authors	Affiliations	Title
1437	Ignacio Perez, John Kinzer,	Office of Naval	Rotorcraft structural health and usage monitoringnavy perspective
	Mike Yu, Bill Frazier, Nam	Research, Naval Air	
	Phan	Systems Command	
424	<b>Mark Seaver</b> , Engin Aktas, Stephen T Trickey	Naval Research	Evaluating sensor performance via ROC
		Laboratory, Izmir	curves as low energy impacts damage
		Institute of Technology	a composite wing
839	Nathanael C Yoder, <b>Douglas</b> <b>E Adams</b>		Robust crack detection in geometrically
		Purdue University	complex metallic components using
			vibro-acoustic modulation
1214	<b>Aditi Chattopadhyay</b> , Cristobal Hiche	Arizona State University	Impact localization and damage
			estimation on a composite wing using
			fiber Bragg grating sensors