

Schedule and Table of Contents

Thursday, April 20, 2017

7:45	-	8:00	CHECK-IN	
8:00	-	8:30	CONTINENTAL BREAKFAST	
8:30	-	8:45	Donald S. Bloswick, University of Utah <i>WELCOME</i>	
8:45	-	10:00	Keynote Speaker <u>Dave DeSario</u> <i>"A Days Work" Safety and Health Documentary on Part-time Work.....</i>	<i>1</i>
10:00	-	10:20	BREAK Session 1A	
10:20	-	10:40	<u>Matthew S. Thiese, Michael L. Northrup, Kurt T. Hegmann</u> <i>Work Hard and Get Laid Off.....</i>	<i>3</i>
10:40	-	11:00	<u>Janalee F. Thompson, John C. Rosencrance</u> <i>Occupational Physical Activity in Active and Sedentary Workers.....</i>	<i>4</i>
11:00	-	11:20	<u>Brian Kim, Janalee Thompson, John Rosecrance</u> <i>The impact of body mass index on employee activity level.....</i>	<i>5</i>
11:20	-	11:40	<u>Rohan Srinivas, Andrew Merryweather</u> <i>Compliant Flooring Using Shock Absorbing Material Sandwiched with Vinyl Composition Tile Aimed at Reduction of Fall Injuries in Hospitals...6</i>	<i>6</i>
11:40	-	12:00	<u>Skyler D. Walker, Holden L. Brown, Matthew S. Thiese, Ulrike Ott, Kurt T. Hegmann</u> <i>Occupational Exercise Programs; a Luxury or an Exhort?.....</i>	<i>7</i>
12:00	-	1:00	LUNCH	

Schedule and Table of Contents

Thursday, April 20, 2017

Session 1B

1:00	-	1:20	<u>William Swankie, Yehia Hammad</u> <i>Effects of Temperature on the Emission Rate of Formaldehyde from Medium Density Fiberboard in a Controlled Chamber.....</i>	8
1:20	-	1:40	<u>Robert J. Vercellino, Darrah K. Sleeth, Rodney Handy, Kyeong T. Min, Scott Collingwood</u> <i>Laboratory Evaluation of a Low-cost, Real-time, Networked Aerosol Multi-Sensor.....</i>	9
1:40	-	2:00	<u>Scott Clingenpeel, Rod Handy, Leon Pahler, Darrah Sleeth</u> <i>A Comparative Evaluation of the Effectiveness of Wipe Sampling Materials to Remove Beryllium from Differently Textured Surfaces.....</i>	10
2:00	-	2:20	<u>Nicolas Brown, Lincoln Holdaway, Austin Simons, Robert Vercellino, Clint Holm, Lean Pahler</u> <i>Heat Stress Analysis of Utah Refinery Process.....</i>	11
2:20	-	2:40	<u>Greg Belnap, Scott Clingenpeel PhD, Almicar Cardona MD, Kelton Gubler, Danielle McKenzie-Smith</u> <i>Assessment of Ergonomic Risks Associated with Production Line Activities.....</i>	12

2:40 - 3:00 **BREAK**

Session 1C

3:00	-	3:20	<u>Zuleyha Aydin</u> <i>Shift Effects on Sleep and Alertness Under 8, 10 and 12 Hour Shift Schedules for Safety Personnel.....</i>	13
3:20	-	3:40	<u>Andria C. Thatcher, Matthew S. Thiese</u> <i>Depressive and anxiety symptoms and low back pain in occupational drivers.....</i>	14
3:40	-	4:00	<u>Mahmoud Metwali, Howard Chen, Joshua Kersten, Nathan Fethke</u> <i>Detecting Movement Cycles Using Time Series Posture Data Collected in Laboratory and Field Environments: A Preliminary Analysis.....</i>	15
4:00	-	4:20	<u>Mojtaba Yazdani, Roya Sabbagh Novin, Andrew S. Merryweather</u> <i>Towards Safe Human and Robot Collaboration in Industrial Environments Using Fault-Tolerant and Optimal Trajectory Planning for Robot Manipulators.....</i>	16
4:20	-	4:40	<u>Ming Xu, James Yang, Isador Lieberman, Ram Haddas</u> <i>Comparison of Responses of Pre- and Post-Surgical Scoliotic Spines to Axial Cyclic Vibration: A Finite Element Study.....</i>	17

Schedule and Table of Contents

Friday, April 21, 2017

7:45	-	8:00	CHECK-IN	
8:00	-	8:30	CONTINENTAL BREAKFAST	
8:30	-	9:30	<i>Special Presentation</i>	19
			<i>14th Annual Paul S. Richards, MD, Endowed Distinguished Visiting Lectureship in Occupational Medicine</i>	
			<u>Dr. Bradley Joseph</u>	
			M.P.H., Ph.D., C.P.E	
			Global Core Industrial Engineering, Ergonomics and Virtual Manufacturing	
9:30	-	10:00	BREAK	
			Session 2A	
10:00	-	10:20	<u>Gus Arroyo, Colleen Brents, David Gilkey, and John Rosecrance</u> <i>Intermethod Reliability of Wearable Sensors for Estimating Trunk Position in Material Handling Tasks</i>	21
10:20	-	10:40	<u>Colleen Brents, Gus Arroyo, David Gilkey, John Rosecrance</u> <i>Using 3D Motion Capture to Study Low Back Kinematics During Manual Materials Handling of Kegs in Craft Breweries</i>	22
10:40	-	11:00	<u>Harkomal Kaur, Matthew S. Thiese, Ulrike Ott</u> <i>Sensitivity and Specificity Analysis of common symptoms in the diagnoses of Carpal Tunnel Syndrome in an industrial working population</i>	23
11:00	-	11:20	<u>Jenna K. Lindsey, Matthew S Thiese, Kurt T. Hegmann, Ulrike Ott, Brenden Ronna</u> <i>The Heart of the Problem: Tennis Elbow</i>	24
11:20	-	11:40	<u>Mitja Trkov, Jingang Yi</u> <i>Slip Detection and Fall Prevention System during Human Walking</i>	25
11:40	-	12:00	WRAP-UP	
12:00	-	1:00	LUNCH	

