

IIE Annual Conference and Expo 2013

Applied Solutions Sessions

Caribe Hilton, San Juan, Puerto Rico

Monday, May 20		IAB- Industry Advisory Board Track	Health Systems Track	Construction Track	Computer and Information Systems Track	Process Industries Track	Sustainable Development Track	Simulation Track
8 - 9:15 a.m.	Session	<i>What Leaders Look For in Promoting IE's Into Management - An IE Career Discussion</i> Kazuo Takeda, Disneyland Resort	<i>Utilizing the 3Ms of Process Improvement: A Roadmap to High Reliability Using Lean Six Sigma</i> Richard Morrow, Healthcare Performance Partners	<i>Too Many Deaths – The Need for Great Construction Work Systems</i> Kevin McManus, Great Systems!	<i>Implementation Challenges of The Manufacturing Execution System (MES)</i> Reza Pouraghabagher, California Polytechnic State University	<i>Randomness Kills" – Or at Least Cripples</i> J Bennett Foster, DuPont Co.	<i>Engineering Government: a Look at Sustainable Politics</i> Katherine Fisher, West Monroe Partners	<i>Optimization of Bevel Gear Operations using Simulation</i> Meredith Deneweth, Geometric Americas
			<i>Bound for Flight: Achieving Organizational Excellence Leveraging Lean Management</i> Airica Steed, University of Illinois Hospital & Health Sciences System	<i>Lean Construction is a Growth Area - Where Does That Leave You?</i> Lincoln Forbes, Florida International University		<i>Modern PRT Systems evolve from a Boeing-built Prototype based on IE Analysis</i> Gregory Brown, The Boeing Company	<i>Macro-Simulation of Traffic Management Options for a Major Sporting Event</i> Robert Batson, University of Alabama	
9:30 - 10:45 a.m.	Keynote Presentation - Guy Primus - Chief Operating Officer, Overbrook Entertainment							
10:45 a.m. - 12:15 p.m.	Exhibit Time - Lunch Group A							
11 a.m. - 12:15 p.m.	Session Group B	<i>Informal Leadership</i> Sean Genovese, The Boeing Company	Health Systems Town Hall Meeting	<i>Use of Holistic Quality Management Approach to Mitigate Construction Risks</i> Al Attah, MACVAL Associates, LLC				
				<i>Using 3D Computer Simulation to Improve Construction Project Planning</i> Patrick Cloutier, Patrick Cloutier Conseil				
12:15 - 1:45 p.m.	Exhibit Time - Lunch Group B							

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12:30 - 1:45 p.m.	Session Group A				<i>Measure to Fit PC Workplace by Personal Reference Points</i> Boris Povlotsky, ergoNostic.com	Process Industries Town Hall Meeting	<i>Determination of Appearance as Environmental Noise Control for ISO 14001:2004</i> Roselyn Perez, Instituto Tecnologico Superior de Misantla	<i>An Innovative Approach in Developing a Shop Floor Schedule for a Complex Manufacturing System</i> Jose Colon Perez, Amgen
						<i>Reduction of Greenhouse Gas Emissions in the Oil and Gas Industry</i> Joseph Paris, XONITEK Group of Companies	INTECO - 10 Years of Industrial Engineering Leadership in Regional Economic Development Francisco Garcia, INTECO	
		IAB- Industry Advisory Board Track	Health Systems Track	Construction Track	Computer and Information Systems Track	Process Industries Track	Sustainable Development Track	Engineering Management Track
2 - 3:15 p.m.	Session	<i>"Coaching/ Advising Panel Discussion"</i> (sponsored by IIE's Industry Advisory Board jointly with IIE's Young Professionals Group) Majid Abab, The Boeing Company Part 1 of 2	<i>Comparing Operating Room Inventory Management Methods</i> Seth Hostetler, Geisinger Health System	<i>Occupant's Behavior and Programmable Thermostat</i> Isabelina Nahmens, Louisiana State University	Computer & Information Systems Town Hall Meeting	<i>Accelerating Performance</i> John Borneman, The Corps Group	<i>Automatic System for Use Calorific Energy of Manufacturing Processes in Industries</i> Gustavo Lopez Badilla, Instituto Tecnologico de Mexicali	Engineering Management Town Hall Meeting
			<i>Improve Surgical Flow through a Hybrid Collaborative Model</i> Balmatee Bidassie, Veterans Engineering Resource Center	<i>Student Best Paper Award for the Construction Division</i> <i>The Potential and Obstacles of Integrated Project Delivery</i> Isabelle Johnson, University of Southern California			<i>Creating a Lean and Green Business System – Techniques for Improving Profits and Sustainability</i> Keivan Zokei, S A Partners Incorporated	

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3:30 - 4:45 p.m.	Session	<p><i>"Coaching/Advising Panel Discussion"</i> (sponsored by IIE's Industry Advisory Board jointly with IIE's Young Professionals Group) Majid Abab, The Boeing Company Part 2 of 2</p>	<p><i>Achieving Sustainable Improvement in Long-standing Dysfunctional Healthcare Peri-operative Processes</i> Daniel Herrick, Dartmouth Hitchcock Medical Center</p>	<p>Construction Town Hall Meeting</p>	<p><i>Combined Productivity Management and Ergonomics Based on MTM Process Description</i> Knut Kille, German MTM-Association</p>	<p><i>Measuring Productivity in a Wire Factory Using Random Work Sampling</i> Dirk Van Goubergen, Ghent University</p>	<p><i>Using Six Sigma to Reduce Energy with Limited Data</i> Brion Hurley, Rockwell Collins</p>	<p><i>An Incipient Flower Cluster in Central Mexico</i> Homero Héctor Contreras Pulido, Universidad Popular Autónoma del Estado de Puebla</p>
			<p><i>Standardizing Patient Care to Improve Outcomes in Spinal Fusion Surgery</i> Todd Schneider, OhioHealth</p>		<p><i>Measure to Fit PC Workplace by Personal Reference Points</i> Boris Povlotsky, ergoNostic.com</p>		<p><i>Using Employees to Engage in Energy Reduction in their Workplace</i> Brion Hurley, Rockwell Collins</p>	<p>Lean Track</p> <p><i>Spreading Access to Health Care Quality Improvement Lean Tools</i> Shruthi Musunuri, United States Department of Veteran Affairs</p>
		IAB- Industry Advisory Board Track	Systems Engineering Track	Latin American Track	Work Systems Track	Process Industries Track	Sustainable Development Track	Lean Track
5 - 6:15 p.m.	Session	<p><i>Leading as an Individual Contributor</i> Patrick Foxworthy, The MITRE Corporation</p>	<p><i>Rational Engineering Lifecycle Manager – Improved Insight from Distributed Engineering Data</i> Amit Fisher, IBM</p>	<p><i>Lean Construction Model Using Industrial Engineering Tools</i> Diana Jaqueline Guerrero Galindo, Universidad Distrital Francisco Jose de Caldas</p>	<p>Tba</p>	<p><i>A Guide to Food Waste Management: Lesson from Belgian Food Processing Industry</i> Manoj Dora, Ghent University</p>	<p>Sustainable Development Town Hall Meeting</p>	<p><i>Streamline Material Transfer Agreement Workflow Using LEAN Methodology</i> Shaun Stephenson, The Methodist Hospital Research Institute</p>
		<p><i>Strategic Leadership Development</i> Joan Wagner, Spirit AeroSystems</p>		<p><i>Increase Product Availability shelf in a Retail Chain</i> Sambri Tovar-Plata, Unilever de México, S.A.</p>	<p><i>Cost Saving Breakthrough: Combined 6-Sigma & MOST Production Standards Setting</i> Sy Thong, A1OPEX</p>			

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Tuesday, May 21		<i>Work Systems Track</i>	<i>Sustainable Development Track</i>	<i>Latin American Track</i>	<i>Systems Engineering Track</i>	<i>Process Industries Track</i>	<i>Engineering Management Track</i>	<i>Lean Track</i>
8 - 9:15 a.m.	Session	Work Systems Town Hall Meeting	<i>Sustainable Transportation Packaging: What it Looks Like, and How it Benefits Your Company</i> Arnold Barlow, UPS	<i>Optimization of Physical Distribution of Plant Using Cells Work</i> Mónica Marcela Umbacía Carvajal, Universidad Libre - Colombia	<i>IE Informatics/ Business Intelligence: Faster Actionable Insight through an Information Experience</i> Mindy Holmes, Assembly Test Tech Development (ATTD) IE Solutions	<i>What Are These Things Called Product Wheels - and Why Should I Care?</i> Peter King, Lean Dynamics, LLC	<i>Smart Maintenance Decision Support Systems (SMDSS)</i> Dan Bumblauskas, University of Missouri and PFC Services, Inc.	<i>Design of Engineering Education as a Manufacturing System</i> Walter Towner, Worcester Polytechnic Institute
9:30 - 10:45 a.m.	Keynote Presentation- Felix Diaz - President, Latin American Region, Pall Corp.							
10:45 a.m. - 12:15 p.m.	Exhibit Time - Lunch Group A							
11 a.m. - 12:15 p.m.	Session Group B	<i>Successful Applications of Work Sampling in Knowledge Work Environments</i> Casey O'Donnell, Jeppesen, A Boeing Company	Supply Chain Town Hall Meeting	<i>RSE and Industrial Production Chains Around a Gold Mine</i> Circe Niezen, Polytechnic University of Puerto Rico	<i>Using the Tool for Strategic Planning: Balanced Scorecard (BSC) in Potosi Institute of Scientific and Technological IPICYT</i> Fernando Mata, Universidad de Monterrey			
12:15 - 1:45 p.m.	Exhibit Time - Lunch Group B							

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12:30 - 1:45 p.m.	Session Group A				<i>Stakeholders in Systems Problems</i> Patrick Hester, Old Dominion University	<i>Effective Labor Estimation in Process Industries</i> Luis Armendariz, Edwards LifeSciences LLC	<i>The Successful Road Map for Engineering and Management Systems Students: For Students, By Students and Experts</i> Arsalan Safari, University of Waterloo	<i>Success Stories of Lean Transformations in the Medical Device Industry</i> Eduardo Ramirez, Medtronic	
					<i>Improving Requirements Engineering Through the Application of MBSE</i> Ron Felice, IBM		<i>Application of Enterprise Excellence (EE) Concept in Developing Growth Strategy Proposals in Aerospace Industry</i> Dhirendra Kumar, North Carolina State University		
2 - 3:15 p.m.	Session	<i>Quality Improvement in Pharmacy Inventory Control</i> Dalia Sumaida, MD Anderson Cancer Center	<i>Vital Signs – How Healthy are Your Work Systems?</i> Kevin McManus, Great Systems!	<i>Case Study with Consulting Programs for Development of Micro State of Nuevo Leon, Mexico. Synergy between Government and University</i> Fernando Mata, Universidad de Monterrey	<i>Extraordinary Breakthrough Thinking</i> Michael Hogan, The Center for Breakthrough Thinking	<i>Process Engineering: Key to Successful Problem Solving</i> Lynn Sutton, Kairos Consulting Worldwide	<i>What You Need to Know About Empathic Design</i> Larry Mallak, Western Michigan University	<i>Optimizing Organizational Performance through a Closed Loop Hoshin Kanri System</i> Jorge Noriega-Asturias, Edwards Lifesciences	
		Operations Research Track	<i>Integrating Innovation Engineering Methods into Design for Six Sigma (DFSS)</i> Kevin Grayson, North Carolina State University	<i>Perspective Research Center in Applied Chemistry (CIQA) if Successful in Applying Research Linking and Industrial Engineering Tools</i> Fernando Mata, Universidad de Monterrey			<i>Engaging the World Confederation of Productivity Science and UN Global Compact</i> George Smith, World Confederation of Productivity Science		<i>Study of Flow in Lean Product Development</i> Ehsan Vasheghani Farahani, Concordia University
		<i>Using the Analytic Hierarchy Process to Enhance Performance Measurement in Engineering Education</i> Federica Robinson-Bryant, University of Central Florida							

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3:30 - 4:45 p.m.	Session	<i>The Integrated Production, Inventory, and Routing Problem Considering Transportation Outsourcing</i> Hadi Sadrsadat, University of Maryland	<i>Making Strategic Plan for Quality – An Example</i> Kalikathan Krishnamoorthi, Bradley University	<i>Living Well Sustainable Development</i> Jorge Postigo, Universidad Catolica Boliviana	<i>Advanced Scheduling Methods in First Unit Airplane Modification</i> Eric May, The Boeing Company	<i>Optimization Opportunities to Improve Supply Chain Efficiency: A Practitioner's Experiences</i> Rajiv Saxena, APL Logistics	<i>Accelerating Business Improvement – The Power of Effective Interactions</i> Kevin Eyre, SA Partners	<i>Leadership Traits That Result in Successful or Mediocre to Poor Transformation – A Panel Discussion</i> Martin Stein, Martin Stein Associates
		<i>An Optimization Model for Relocation and Dispatching of Fire Department Heterogeneous Fleet</i> Elham Sharifi, University of Maryland	<i>Visual Measurement System Analysis with EMP</i> Scott Wise, SAS Institute	<i>Case Study - Process Optimization in Law Enforcement</i> Roberto Rosas, ITESM Campus San Luis Potosi	<i>Sequential Measure of Standard Work Compliance Coupled with Real-Time Performance Metrics</i> William Ellis, The Boeing Company	<i>Creating a Lean and Green Business System</i> Keivan Zokaei, SA Partners		
5 - 6:15 p.m.	Session	<i>Effects of RFID on Profitability in Retail Supply Chains</i> Burak Eksioglu, Mississippi State University	<i>Use of Lean Sigma Methodology for Quality System Improvements – A Panel Discussion</i> Roberto Murillo, Medtronic	<i>Logistics Management in the Hanseatica Company Using System Dynamics</i> Oscar Mayorga Torres, Universidad Libre - Colombia	<i>Applying Theory of Constraints to Large Network Problems</i> Paul Marshall, The Boeing Company	IAB – Industry Advisory Board Town Hall Meeting	<i>Developing a Material Flow Organization – The Why and How</i> Helmut Welke, Deere and Company	<i>A Lean Approach to Efficiency in a Biotech Manufacturing Setting</i> Valentine Boving, MD Anderson Cancer Center
		<i>Know your Contract</i> Aaron Lininger, West Monroe Partners	<i>Reducing Raw Material Waste in a Food Company by Using Six Sigma</i> Ernesto Sampayo, Bimbo de Colombia S.A.	<i>Simulation Applied to Municipal Services: The Case of the City of Puebla</i> Homero Héctor Contreras Pulido, Universidad Popular Autónoma del Estado de Puebla	<i>Standard Work in a Variable Production Environment</i> Kris Pittrof, The Boeing Company		<i>Utilizing Peer Networking for Performance Improvement</i> Yvette Leger, Premier Inc.	

Wednesday, May 22		Health Systems Track	Quality, Reliability & Six Sigma Track	Latin American Track	Aerospace & Defense Track	Supply Chain Track	Engineering Management Track	Lean Track
8 - 9:15 a.m.	Session	Tba	Tba	<p><i>Improvement Production Processes in a Manufacturing Line of Solid Products of a Pharmaceutical Company</i> Karen Contreras, Universidad Católica Andrés Bello</p>	<p><i>Development of an On-line Advanced Ergonomics Training Course for Designers and Engineers</i> Mark Stuart, The Boeing Company</p>	<p><i>Supply Chain Fitness: Integration of Operations, Manufacturing and Supply Chain</i> Martin Stein, Martin Stein Associates</p>	<p><i>Sustaining Organization Transformation through Three Key Dimensions</i> Francisco Garcia, INTECO</p>	Tba
		<p><i>Layout Analysis to Select Transportation Equipment Storage Locations at a Cancer Hospital</i> Adriana L. Chavez, MD Anderson Cancer Center</p>	<p><i>A Strategy for Managing Risks – A Project Management Tool</i> Alvin Sumter, ThyssenKrupp Elevators</p>	<p><i>Process Modeling in the Housing Allowance Using Discrete Simulation</i> Edith Yarlet Méndez Rivas, Universidad Libre - Colombia</p>	<p><i>Value Streams – The Importance of Understanding Them</i> Brian McCarthy, The Boeing Company</p>	<p><i>Modeling Complex Labor Calculations with a Limited Variable System – A Linear Optimization Case Study</i> Jeremy Tancredi, West Monroe Partners</p>	<p><i>Strategic Planning Success: A Three Year Case Study</i> Ryan Underdown, Lamar University</p>	
9:25 - 10:40 a.m.	Session	<p><i>A Usability Analysis of Critical Care, Med-surg and Birthing Hospital Beds</i> J.P. Purswell, Colorado State University-Pueblo</p>	<p><i>A New Paradigm in the Implementation of a Lean Six Sigma Program – A Panel Discussion</i> Tony Pesante, X6Sigma</p>	Tba	<p><i>Towards the Development of a Tool Evaluation Survey and Replacement Strategy</i> Katherine Meza, The Boeing Company</p>	<p><i>The Next Generation Rail Supply Chain Initiative – What Is It?</i> Marie Griffin, North Carolina State University</p>	<p><i>Evaluation of Alternative Robotics and Potential Applications</i> Martin Stein, Martin Stein Associates</p>	
		<p><i>Identification of Congestive Heart Failure Patients through Lean Tools</i> Rachel Douglas, MD Anderson Cancer Center</p>		<p><i>Evaluation of Production Orders Split in Electrostatic Painting Company</i> Diana Carolina Forero Riveros, Universidad Libre - Colombia</p>	<p><i>Utilizing IE Skills within Lean for the Right Overtime Reduction</i> Jessica Harris, The Boeing Company</p>	Tba	<p><i>Next Generation Rail Supply Chain Process Development: A Challenging Honor</i> Marie Griffin, North Carolina State University</p>	

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10:50 - 12:05 p.m.	Session	<i>Optimizing Cancer Care through Collaborative Approach</i> Shaiju Eapen, Department of Veterans Affairs	<i>Revenue Capture using Six Sigma Methodology</i> Dennis Tan, The Methodist Hospital	<i>Reduced Inventory Level in Families of Sets and Semi-Axis Arrows</i> Bernardo Villarreal-Elizondo, Universidad de Monterrey	<i>Boeing 777 Functional Testing Process Improvements to Support 2.5 rate Increase</i> Zeyad Al Aqrabawi, The Boeing Company	Tba	<i>U.S. In-flight Icing Accidents and Incidents, 2006 to 2010</i> Philip Appiah Kubi, Ohio University	<i>Applications of the Lean Methodology at The University of Texas MD Anderson Cancer Center</i> Tatiana Hmar-Lagroun, MD Anderson Cancer Center
		<i>Creating Additional Capacity By Applying Queueing Theory To Transportation Services</i> Ranganath Iyer, MD Anderson Cancer Center	<i>Reducing CT Rescans using Six-Sigma Methodology</i> Dennis Tan, The Methodist Hospital	<i>An Application of Routing Models for PET Pickup for Recycling</i> Maria Acosta, Instituto Tecnológico de Sonora	Open	<i>Challenges and Benefits in Simulating Retail: A Non-Standardized Systems Approach</i> Katherine Fisher, West Monroe Partners	<i>Deployment of a Successful Closed Loop Productivity Improvement System</i> Jorge Noriega-Asturias, Edwards Lifesciences	