



Technical Program
32st Forging Industry Technical Conference
September 11-12, 2018
Hilton Long Beach, Long Beach, CA, USA

Tuesday, September 11, 2018

Morning Plant Tour – Weber Metals, Inc.

11:00 a.m. Registration opens in 2nd Floor Foyer

12:00 p.m. Lunch served in Exhibit Hall (International Ballroom I/II/III)

Invited Speakers

International Ballroom IV/V

1:00 p.m. Welcome/FIA & FIERF Activities

1:30 p.m. [Big & Smart, the Future of Forgings for the Construction and Mining Equipment Industry](#)

[Matthew T. Kiser, PhD](#), Steel Technology Steward, Caterpillar Inc.

2:15 p.m. [Electrification Disruption: How Not to Get Shocked, Jolted and Fried by the Coming Shift in Automotive](#)

[Paul Eichenberg](#), Chief Strategist

3:00 p.m. Break

3:30 p.m. [The Connected Enterprise – Accelerating High Performance Operations](#)

Alvin R. Hooper Jr., Account Manager - End User, Rockwell Automation

4:00 p.m. [Historic Heavy Forging Presses of the World](#)

[Jon Tirpak](#), Advanced Technology International

4:30 p.m. [The Decision to Invest](#)

[Justin Owen](#), Weber Metals, Inc.

5:00 p.m.-

7:00 p.m. Reception/Dinner/Poster Session/Exhibits in Exhibit Hall (International Ballroom I/II/III)

Wednesday, September 12, 2018

7:00 -

8:00 a.m. Breakfast in the Exhibit Hall (International Ballroom I/II/III)

Track A – International IV/V

- 8:00 a.m. [Recent Developments in Sheet Steels from a Forging Perspective & Outlook](#)
[Chet Van Tyne](#), Professor Emeritus, Colorado School of Mines
- 8:35 a.m. [Material Behavior Modeling in the Aerospace Industry](#)
[S.L. \(Lee\) Semiatin](#), Air Force Research Laboratory, Wright-Patterson Air Force Base
- 9:10 a.m. [Material Modeling](#)
[Patrick Anderson](#), Manager - Advanced Modeling, TimkenSteel
- 9:40 a.m. Break
- 10:15 a.m. [High Strength, High Toughness Microalloyed Steel Forgings Produced with Relaxed Forging Conditions and No Heat Treatment](#)
[Aaron E. Stein](#), Graduate Student, University of Pittsburgh
- 10:50 a.m. [Laboratory Testing to Identify Permanent PVD Coatings to Minimize Lubricant Use](#)
[Kester D. Clarke](#), FIERF Professor, Colorado School of Mines
- 11:25 a.m. [Paradigm Shift for Aerospace Forging Industry Oversight](#)
[Brian Streich](#), Honeywell Aerospace, Materials Engineering

Track B – Pacific I/II

- 8:00 a.m. [Press Upgrade and Analysis of Surface Topography in Hot Compression](#)
[Dr. Joseph P. Domblesky](#), Professor, Marquette University
- 8:35 a.m. [Improving Temperature Uniformity in Forging Furnaces with Industry 4.0 Techniques](#)
[Andrea Cardenas-Romero](#), Nutec Bickley
- 9:10 a.m. [Evaluation of Intensive Quenching Hardening Process Immediately After Completion of Hot Forging Operations](#)
[Joseph A. Powell](#), IQ Technologies Inc.
- 9:40 a.m. Break
- 10:15 a.m. [ServoDirect Drive for Hydraulic Machinery](#)
Mike Gill, President, LASCO Engineering Services LLC
- 10:50 a.m. [Energy Saving: New Drive Concepts for Forging Presses](#)
[Uwe Konnerth](#), Sales Director Forging, Schuler Pressen GmbH
- 11:25 a.m. [PhotoGauge: A 3D Scanner in Your Pocket](#)
[Shankar Subramanian](#), PhotoGauge
- 12:00 p.m. Lunch/Poster Session/Exhibits/Table Discussion Topics in the Exhibit Hall (International I/II/III)

Joint Session - International Ballroom IV/V

- 1:15 p.m. [Focus on Mass Reduction and Power Density](#)
[Jeffrey W. Nichols](#), Executive Director Advanced Technology Integration & Global Business Development, AAM
- 1:45 p.m. [Development of a Forging Process for High-Power-Density Hollow Shafts](#)
[Gracious Ngaile](#), Professor, North Carolina State University
- 2:15 p.m. [Magnesium-Alloy Forgings for Automotive Applications](#)
[Mary Wells](#), Dean, College of Engineering and Physical Sciences, University of Guelph
- 2:45 p.m. [Arconic Additive Manufacturing & Development of the Ampliforge™ Process](#)
[Melanie Chastka](#), Arconic
- 3:15 p.m. Break
- 3:45 p.m. [Post-Sintering Forging for Improvement of Mechanical Properties of AM](#)
Timothy Cyders, Professor, Ohio University
- 4:15 p.m. [Characterization of High Entropy Alloys for Welding Applications](#)
[Michael Wall](#), Material Science and Engineering, University of North Texas
- 4:45 p.m. [Use of Direct Metal Deposition Additive Manufacturing Techniques for Forging Die Repair](#)
[Arshad Harooni](#), Metallurgist/Process Engineer, DM3D Technology LLC
- 5:15 p.m. Conference Wrap-up
- 5:30 p.m. Adjourn

Sponsored by:

Forging Industry Educational & Research Foundation (FIERF)

Forging Industry Association (FIA)

