

# ITPS

Americas

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**INDUSTRIAL HEATING**

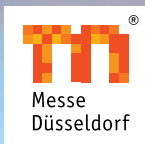
AUGUST 10 - 12, 2016 | LOEWS CHICAGO HOTEL | CHICAGO, IL USA



## THERMAL PROCESSES: THE FOUNDATION OF INDUSTRY

Meet the Leaders and Learn the Latest at  
the International ThermProcess Summit Americas

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REGISTRATION  
INFORMATION

# SCHEDULE OF EVENTS

## Wednesday, August 10

3:00 PM Registration Open

5:30 – 7:00 PM Welcome Reception

## Thursday, August 11

7:30 AM Registration Open

8:00 AM Continental Breakfast

8:30 AM ITPS America Opens – Welcome by Daniel Llaguno, IHEA President

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8:40 AM – 12:30 PM **GENERAL SESSION**

### HOST

**Meagan O'Brien**, Engineer & Comedienne

### OPENING KEYNOTE

#### **The New Geopolitics of Energy**

- **Mark Mills**, Senior Fellow, *Manhattan Institute* & CEO, *Digital Power Group*

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### POLICIES IMPACTING THERMAL PROCESSES

#### **Energy Efficiency**

- **Jay Wrobel**, Manager, *DOE AMO Technical Assistance Program*

#### **Emissions & Environment (Climate Change)**

- **Chris James**, Principal, *China & US Programs, Regulatory Assistance Project*

#### **Election Overview and How the Results Could Impact Our Industry**

- **David Goch**, Partner, *Webster, Chamberlain & Bean*

#### **Risk Management**

- **David Walters**, Principal, *Commercial Risk Management, Gibson Insurance*

#### **Convert a Compliance Energy Audit from an Impediment to Opportunity**

- **John Clarke**, President, *Diamond Engineering*

12:30 – 2:00 PM Lunch & Visit Exhibits

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2:00 – 5:00 PM **GENERAL SESSION**

### REGIONAL ECONOMIC DRIVERS AND THEIR GLOBAL IMPACT

#### **NAFTA Markets**

- **Chris Kuehl**, President, *Armada Corporate Intelligence* & IHEA's Economist

#### **Mexico**

- **Martin Caro**, Trade & Investment Commissioner, *Promexico* & **Luis G. Lizcano**, Director General, *FEMIA*

#### **South America**

- **Thomas Kreuzaler**, Managing Director, *SECO/WARWICK DO BRASIL*

#### **Global (China/Europe/India)**

- **Timo Wuerz**, General Secretary, *CECOF*

5:00 – 6:00 PM Visit Exhibits

7:00 – 9:00 PM Taste of Chicago Dinner & Drinks on the Terrace

# SCHEDULE OF EVENTS

## Friday, August 12

7:30 AM Registration Open

8:00 AM Continental Breakfast

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8:30 AM – 12:15 PM **GENERAL SESSION**

### LEADERSHIP KEYNOTE

#### **The Truth About Leadership**

- **Chief Master Sergeant (Ret.) Bob Vasquez**, United States Air Force
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### ADVANCED THERMAL PROCESSES FOR MATERIALS, TECHNIQUES AND APPLICATIONS

#### **The Future of Electrical Power and Emerging Electrotechnologies**

- **Allen Dennis**, Technical Program Director, EPRI

#### **Internet of Things**

- **The Brave New World of Thermprocessing**
  - **Andreas Seitzer**, Managing Director, Himmelwerk
- **How Furnace Controls Will Develop in the Next Five to Ten Years**
  - **Patrick Torok**, Vice President Sales & Marketing, Heat Treat North America, United Process Controls, Inc.

#### **Manufacturing Challenges to Reduce Weight in Transportation Applications**

- **Alan Taub**, Chief Technical Officer, LIFT

#### **Future Trends in Thermal Process Heating for Manufacturing (ROADMAP Presentation)**

- **Rick Sisson**, Professor of Mechanical Engineering; Head, Materials Science and Engineering Program, Worcester Polytechnic Institute (WPI) Center for Heat Treating Excellence

12:15 – 1:30 PM Lunch & Visit Exhibits

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1:30 – 4:30 PM **GENERAL SESSION**

### EMERGING MARKET DYNAMICS

**Hot Market Trends in USA, Mexico, Canada, Brazil:** Each speaker will provide a brief overview of trends in their industries followed by a panel discussion that will cover the topics below.

- **Automotive:**
  - **Steve Ferdon**, Director Engineering Technology, World Wide FE Leader Materials Science, Cummins
  - **Aquil Ahmad**, Chief Metallurgist, Eaton Corporation, Retired
- **Agriculture/Construction:**
  - **Chad Spore**, Supervisor Enterprise Materials Engineering, John Deere Waterloo Works
- **Primary Metals:**
  - **Eugene Arnold**, Principal Engineer, ArcelorMittal USA
- **Aerospace:**
  - **Dr. David Furrer**, Senior Fellow Discipline Lead, Pratt & Whitney

#### **End User Panel Discussion Topics:**

- What they want/expect from suppliers
- What thermal processing innovations will enable them to move forward
- What processes may go away as their processes advance
- What challenges do they have with current processes
- Efficiency/ productivity/ quality/ emissions discussion

### CLOSING PRESENTATION

**Dan Proft**, Radio Host, *The Answer on AM 560 in Chicago*

4:30 PM **THANK YOU & FAREWELL – ITPS AMERICAS CONCLUDES**



# GENERAL INFORMATION

## Registration Information

To register, visit [www.itps-americas.com](http://www.itps-americas.com) and click on the register button.

### Registration Fees

**IHEA Members:** \$1,195

**CECOF / MTI / JIFMA / VDMA Members:** \$1,395

**Non-Members:** \$1,595

### Registration includes:

- Admission to all sessions
- Admission to tabletop exhibition
- Welcome Reception
- Continental Breakfasts
- Luncheons
- Taste of Chicago Dinner

### Cancellation

Registrations may be canceled for a full refund until July 8, less a \$50 processing fee. A 50% refund will be provided for canceled registrations between July 9 and July 29. No refunds for cancellation received after July 29.

### Name Substitutions

Name substitutions are permitted by contacting IHEA at 859-356-1575.

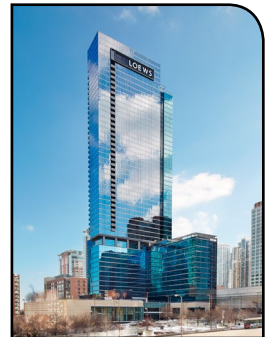
## Hotel

**Loews Chicago Hotel**  
**455 N. Park Avenue**  
**Chicago, IL 60611**

The **Loews Chicago Hotel** in downtown Chicago will host ITPS Americas. Opened just last year, this modern hotel is the perfect setting for ITPS Americas. Close to Navy Pier, the Chicago Loop and Magnificent Mile, you can walk to a multitude of fantastic restaurants during your stay.

We have a fantastic group rate of \$199 per night plus taxes for king bed rooms. Our block will fill quickly, so please reserve your room today!

*To make a reservation, visit [www.itps-americas.com](http://www.itps-americas.com) and click on Hotel/Travel.*



## Travel

Downtown Chicago is easily accessible from either Midway or O'Hare airports. There is no reason to rent a car for your stay as taxis and shared shuttle service can be arranged after you exit baggage claim. There is a taxi stand directly outside the hotel and the front desk can arrange your return transportation to the airport.

## Attire

Expect the temperatures in Chicago to be warm during the day but bring a jacket for evenings as the wind off the lake can make it quite cool after dark. Dress for ITPS Americas is business casual; jacket and tie are not required.

## Tabletop Exhibit Hours

### Thursday, August 11

12:30 - 2:00 PM

5:00 - 6:00 PM

### Friday, August 12

12:15 - 1:30 PM

## ABOUT IHEA



The Industrial Heating Equipment Association (IHEA) is a voluntary national trade association representing the major segments of the industrial heat processing equipment industry. Established in 1929 to meet the need for effective group action in promoting the interest of industrial furnace & oven manufacturers, the organization has expanded and currently includes designers and manufacturers of all types of industrial heat processing equipment as well as end users of furnaces and ovens.

IHEA regularly provides educational opportunities to the industry at large. These include Combustion, Induction, Infrared and Safety Seminars as well as on-line distance learning courses. IHEA is also actively involved in NFPA86 and ISO TC244, ensuring the interests of our industry and our members are represented with these very important standards and codes bodies.

IHEA members save on their ITPS Americas registration fees. To learn more about IHEA membership and save today on your registration fees, visit [www.ihea.org](http://www.ihea.org) and click the JOIN NOW button on the home page.

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## ABOUT INDUSTRIAL HEATING



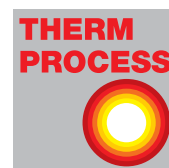
Celebrating its 85th anniversary in 2016, *Industrial Heating* is the world's largest and most comprehensive integrated-media resource focusing on high-temperature thermal-processing technology, heat treatment and metallurgy. Our editorial coverage includes topics such as combustion and burners; process control and instrumentation; materials testing; additive manufacturing; induction, vacuum and atmosphere heat treating; and much more.

We also cover thermal processes (including melting) for ferrous and nonferrous materials that are used in a variety of industries. Our international readership represents a wide range of industries, including aerospace, automotive, medical, oil & gas, power generation, foundry & casting, defense and many more.

Take advantage of our many industry resources such as directories by visiting [www.industrialheating.com](http://www.industrialheating.com). While you are there, subscribe to the print magazine, digital edition, one of our newsletters or all of the above.

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## ITPS AMERICAS IS POWERED BY



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# FEATURED SPEAKERS

## KEYNOTES & EMCEE



### MARK MILLS

Senior Fellow, *Manhattan Institute*  
CEO, *Digital Power Group*

#### OPENING KEYNOTE:

*The New Geopolitics of Energy*

The oil industry has undergone a remarkable transformation in a few short years. A decade ago, many energy analysts were forecasting the imminent arrival of “peak oil.” Today, oil is cheaper and more abundant than ever before, due in large part to North America’s shale boom. Yet the economic and geopolitical consequences of the oil industry’s transformation remain poorly understood. How should US policymakers respond to the shale revolution? Congress’s decision, in December 2015, to lift its four-decade ban on US oil exports was an important first step. What opportunities and potential pitfalls lie ahead?

### DAN PROFT

Radio Host, *The Answer on AM 560*  
*Chicago*

#### CLOSING KEYNOTE:

*Where is America Heading?*



In the midst of one of the most contentious presidential elections of our lifetimes, Dan Proft discusses what we should expect in November, where the country goes from here, and what policies we will see coming out of Washington and Illinois in the year ahead. Dan will also outline the policy and political lessons we can take from Illinois, a state that has lost 125,000 manufacturing jobs since 2004 even while jobs are returning to other Midwest states.



### CHIEF MASTER SERGEANT (RETIRED) BOB VÁSQUEZ

*United States Air Force*

#### The Truth About Leadership

There are many things you’ve been taught about leadership, says CM Sergeant Bob Vásquez, that are, to put it simply, WRONG! Leadership requires action: WRONG! Leaders lead from the front: WRONG! The truth about leadership is...

Chief Master Sergeant (Retired) Bob Vásquez is currently a Course Director at the United States Air Force Academy’s Center for Character Development, as well as an adjunct professor at the University of Colorado at Colorado Springs. He is also an accomplished author, musician, speaker, life coach, and mentor. However, the accomplishment of which he is most proud is his family. You’ll be intrigued by CM Sergeant Vásquez’s unique perspective on leadership.

### MEAGAN O’BRIEN

#### Host & Emcee



Meagan O’Brien went to college to become a mechanical engineer, during which time she worked with her dad in the Surface Combustion metallurgical lab preparing samples for analysis. Once she graduated, she moved to Chicago and worked in the aerospace industry for 8 years. In the evenings, she studied improvisation and comedy (the normal evening activity for any engineer!). Ten years ago she left the comfort of her job and toured with The Second City National Touring Company. For the past 8 years she has worked as a freelance facilitator, host and actor.

Meagan will serve as our ITPS Americas host and emcee throughout the Summit.

# FEATURED SPEAKERS

## POLICIES IMPACTING THERMAL PROCESSES



**JAY WROBEL**

Manager, DOE AMO Technical Assistance Program

### Energy Efficiency

US Department of Energy Resources that promote energy savings and energy productivity improvements in the industrial space.



**CHRIS JAMES**

Principal, China & US Programs  
Regulatory Assistance Project

### Emissions & Environment

This presentation will address current and expected future environmental requirements in the United States (at the federal and state level), and also discuss how our neighbors in Canada and Mexico are proceeding. Canada's new Prime Minister, and the new Alberta Governor have announced policies that adopt a different course than their predecessors. Mexico's Climate Law is a model for other countries, as it requires inter-agency planning to be coordinated among several cabinet departments in order to reduce greenhouse gas emissions, but to also ensure economic development and reliable energy supplies.

**DAVID GOCH**

Partner  
Webster, Chamberlain & Bean

### Election Overview

An attorney focusing on non-profit and association law based in Washington, DC, David will give his entertaining and thought-provoking insight on the upcoming US Presidential Election. From his prediction of the winner to it's impact on our industry, this presentation will give you new perspective on the November vote.

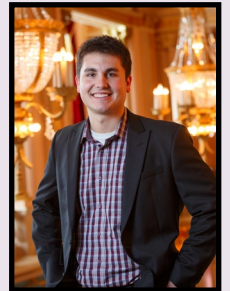


**DAVID WALTERS**

Principal, Commercial  
Risk Management  
Gibson Insurance

### Risk Management

While the insurance industry continues to promote the idea that risk management and insurance are two in the same, this notion is fundamentally flawed. For organizations to compete, grow, thrive, and evolve in today's increasingly complex business environment, traditional insurance conversations must also continue to evolve into more comprehensive risk management dialogues. In this session we will share the fundamentals of proactive risk management, discuss several trends happening in the world of insurance, and explore strategies for identifying, assessing, and managing some of today's top emerging risks.



**JOHN CLARKE**

President,  
Diamond Engineering

### Convert a Compliance Energy Audit from an Impediment to an Opportunity

It is a prerequisite that our enterprises are in compliance with Safety (Combustion Safety / OSHA) and Environmental (Energy Efficiency and Emissions) regulations. Is there a better way to organize compliance efforts to lower costs and increase benefits? Can we move from vertical silos of responsibility where the environmental manager is concerned with EPA compliance, the safety manager is concerned with OSHA compliance, the engineering manager is concerned with combustion safety and so forth? This presentation will discuss how to refocus our process heating equipment management efforts from the vertical silo of legal compliance to a horizontal view (equipment, process centric) in which processes are better supported and total costs are better understood. We will discuss examples of how to meet compliance requirements in a way to encourage process improvement. Lastly, we will discuss how these concepts will lead to better equipment upgrade and/or replacement decisions that can ultimately save your money and improve your operations.



# FEATURED SPEAKERS

## REGIONAL ECONOMIC DRIVERS AND THEIR GLOBAL IMPACT



### CHRIS KUEHL

President, *Armada Corporate Intelligence*  
*IHEA's Economist*

#### NAFTA Markets

Chris serves as IHEA's economist and is the author of IHEA's monthly Executive Economic Summary Report. In this presentation, Chris will give us a peek at the future of the US economy as well as what's happening with our neighbors to the north in Canada and south in Mexico. He'll share his thoughts on what transpired in 2015 and provide a forecast of what's to come throughout 2016 and beyond. Always informative and entertaining, Chris Kuehl is always a highlight of any industry event!

### THOMAS KREUZALER

Managing Director, *SECO/WARWICK DO BRASIL*



#### South America

Thomas will review the South American industrial market's current status and composition including the development of the major thermal processing industries in South America. He'll also discuss the internal and external influences on the markets as well as the political influences. He'll finish by revealing the actual economic drivers in the thermal processing industry and the global impact of South America's market developments in our industry.



### MARTIN CARO

Trade & Investment Commissioner,  
*Promexico*

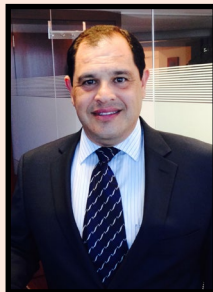
#### Mexico

Martin will discuss the Mexican business environment and facts & data about Mexico's economic competitiveness.

### LUIZ G. LIZCANO

Director General, *FEMIA*

#### Mexico



This presentation will provide an overview of Mexico's Aerospace industry & business opportunities.

### TIMO WUERZ

General Secretary, *CECOF*



#### Global (China/Europe/ India)

What happens around the world has a serious impact on our industry here in the USA. This presentation will provide an overview of general economic development in major markets (i.e. Europe and Asian countries including China and India); development in relevant market segments (automotive, metals, etc.); a review of thermoprocess technology, production and foreign trade (major producers, exporters, importers); a European forecast for 2016 and 2017; and will conclude with a look at current technological trends.



## FEATURED SPEAKERS

### ADVANCED THERMAL PROCESSES FOR MATERIALS, TECHNIQUES AND APPLICATIONS



**ALLEN DENNIS**

Technical Program Director, EPRI

#### **The Future of Electrical Power & Emerging Electrotechnologies**

EPRI will provide an overview of its approach to advance electrification. They have identified industrial fossil-fueled technologies that utility customers could profitably replace with electric alternatives. While electrification can increase utility revenues, the primary objective is customer savings, with a focus on technologies that recover investment cost in three years or less. Electrification can also reduce greenhouse gas emissions and improve worker safety. This presentation will also include identified industrial growth areas.



**ALAN TAUB**

Chief Technical Office, LIFT

#### **Manufacturing Challenges to Reduce Weight in Transportation Applications**

New solutions are needed to reduce the weight of the machines that move people and goods on land, sea and air. The potential for reducing weight using high-strength steels, aluminum, titanium and magnesium alloys is well established. Key is to achieve the weight reduction economically and ranges from about \$5/kg saved for automobiles to over \$500/kg saved for aircraft. This requires optimizing the material properties and developing robust, scalable manufacturing technologies. Lightweight Innovations for Tomorrow (LIFT) was established to accelerate the adoption of advanced metallic structural components and serves as the bridge between basic research and final product commercialization. Our industry partners in collaboration with an extensive network of universities and the national and federal laboratories are developing these advanced manufacturing processes. This talk will provide an overview of LIFT and describe how advanced heat treating is playing an important role in our technology portfolio.

#### **THE INTERNET OF THINGS**

**ANDREAS SEITZER**

Managing Director, Himmelwerk



#### **The Brave New World of Thermoprocessing**

A view of the highly integrated web-based production network: manufacturing processes become easier to be modified, show increased resource efficiency or are characterized by improved ergonomics; customers and business partners are integrated into the entire value-adding chain. The basis for such a future approach is cyber-physical systems and the internet of things. Within the German industry, this approach is called "Industry 4.0" and is meant to be an additional boost for efficient industrial processes. Examples of realized and/or planned applications from metallurgical plants, foundry systems and thermoprocess technology are given. Along with the limitations of this approach, be it legal, infrastructural or cultural limitations.

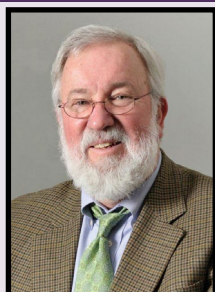


**PATRICK TOROK**

Vice President, Sales & Marketing,  
Heat Treat North America,  
United Process Controls, Inc.

#### **How Furnace Controls will Develop in the Next Five to Ten Years**

In the manufacturing world, Industry 4.0 is currently on everyone's lips. Albeit in its infancy, it's certainly exciting to take a glimpse into the crystal ball to see what the future holds for industrial furnace controls. So what can we expect in the upcoming years? To answer this question and how new technologies will be changing our daily work in the next decade, this talk starts by determining where we presently stand from a technological point of view, then describes the new components that have to be created, and finally outlines the context in which they are to be used and what possibilities they hold for our smart equipment and plants.



**RICK SISSON**

Professor of Mechanical Engineering; Head, Materials Science & Engineering Program,  
Worcester Polytechnic Institute Center for Heat Treating Excellence

#### **Future Trends in Thermal Process Heating for Manufacturing**

Professor Sisson has been working on simulation of the surface treating of steels and heat treating aluminum alloys as well as the effects of deposition process parameters on the microstructure and cyclic thermal stability of partially stabilized zirconia thermal barrier coatings, hydrogen embrittlement of steel, and materials synthesis. He will provide insight into the future trends he sees happening in our industry.

## FEATURED SPEAKERS

### EMERGING MARKET DYNAMICS

#### AUTOMOTIVE



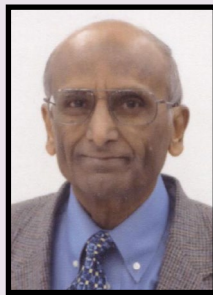
##### STEVE FERDON

Director, Engineering Technology,  
World Wide FE Leader, *Cummins*

A discussion on automotive business trends will be addressed first followed by insights on hot market trends related to heat treat processes in the automotive industry. Mr. Ferdon will cover the diesel fuel injection business technology needs as well as touching on Cummins Engine Co. overall initiatives with respect to supply chain and environmental responsibility strategies.

##### AQUIL AHMAD

Chief Metallurgist (Retired),  
*Eaton Corporation*



This session will be a discussion of the selection of processes for automotive components with future needs in mind. The thrust for sustainability, low carbon emissions, equipment with rapid response to heat treating thereby reduced inventory for in process production and equipment footprint. A brief concept for improvement in steel performance versus cost will be discussed using novel processing.

#### AEROSPACE



##### DR. DAVID FURRER

Senior Fellow Discipline Lead,  
*Pratt & Whitney*

This presentation will showcase the trends happening today in the aerospace industry as they relate to thermal process technologies.

#### AGRICULTURE/CONSTRUCTION

##### CHAD SPORE

Supervisor, Enterprise Materials Engineering,  
*John Deere Waterloo Works*



Chad will provide an overview of thermal process trends and innovations impacting the agricultural and construction equipment industry. He will focus on the thermal processes innovations impacting the drivetrain and ground engaging applications.

#### PRIMARY METALS

##### EUGENE ARNOLD

Principal Engineer  
*ArcelorMittal USA*



Integrated steel is an energy intensive industry. A single solution does not exist to reduce the energy intensive processes, and consequent greenhouse gas emissions. Energy efficiency, the emissionless fuel of the 21st century, as a functional and practical approach to reducing energy use and consequent emissions is discussed.

# ITPS

Americas

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# TABLETOP EXHIBITORS

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- › CECOF
- › Honeywell Industrial & Commercial Thermal
- › HIMA Americas
- › IHEA
- › *Industrial Heating*
- › Karl Dungs, Inc.
- › Linn High Therm GmbH
- › Messe Duesseldorf GmbH
- › Nutec Bickley
- › *Products Finishing Magazine*
- › SCC, Inc.
- › SECO/WARWICK Corp.
- › SOLO Swiss SA
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- › WS Thermal Process Technology Inc.

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