



Texas Industries of the Future



Institute for
**Industrial
Productivity**

Texas Industries of the Future
And the Institute for Industrial Productivity Presents

***Technology Forum: Sustaining Industrial Energy Efficiency
in Process Cooling in a Potentially Water-Short Future***

8:30 am-4 pm

June 19, 2013

Houston, Texas

7:30 *Coffee and Visit with Exhibitors*

8:30 [Goals of Forum and Case for Action](#)

Frank Roberto, Chair, Texas IOF Advisory Committee
ExxonMobil Chemical Co.
Kathey Ferland, Texas Industries of the Future
The University of Texas at Austin

[Jim Quinn, Institute for Industrial Productivity](#)

9:10 [Current Situation](#)

Update from LyondellBasell
Matthew Michnovicz, Principal Engineer
Equistar Chemicals, LP, a LyondellBasell Industries Company

9:45 *Clarifying the Situation*

Attendee go-round on following questions:

- What is your biggest concern and challenge with respect to the energy impacts of water availability/quality?
- How does your plant currently use water?
- What is expected to happen to your water source over time (quantity and quality)?
- How will this impact your plant cooling or plant expansion plans?
- What are you doing to manage this threat?
- Which technologies for process cooling are you evaluating?

10:45 *The Big Picture on Research and Evaluating Trade-offs*

*Potential Game Changing Cooling Technology Development for Power Plant
[Water Conservation](#)*

Electric Power Research Institute

Jessica Shi, Ph.D. Technical Lead, Technology Innovation Water Conservation Program

[Metrics for Evaluating Alternatives in a Typical Chemical Plant](#)

Johnson Controls, Inc.

Tom Carter, P.E. Senior Program Manager, Heat Rejection Technology

11:45 *Lunch Provided. Brady's Landing Buffet*
Visit with exhibitors and speakers

12:45 *Process Cooling Technologies, Part 1*

[Evaporative Cooling Systems](#)

Phelps Engineering, Pete Phelps

[Air-cooled Heat Exchangers](#)

Hudson Products Corporation

Robert J. (Bob) Giammaruti, VP & GM - FIN-FAN® Air-Cooled Heat Exchangers

[EVAPCO Dual Coil Cooler](#)

Hunton Specialty, Ron Sheppard

1:35 *Process Cooling Technologies, Part 2*

[Advanced Dew Point Cooling Tower Fill](#)

Gas Technology Institute

Yaroslav Chudnovsky, Ph.D. Senior R&D Staff, End-Use Industrial Solutions

[Wet Surface Air Coolers](#)

Niagara Blower

Chuck Marchetta, Senior Applications Engineer

[Thermosyphon Cooler Hybrid System](#)

Johnson Controls, Inc.

Tom Carter, P.E. Senior Program Manager, Heat Rejection Technology

2:40 *Break Out Groups: Discussion on Next Steps*

3:40 *Report Out and Closing*

4:00 *Adjourn*