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**Workshop Sessions:
Business Forum,
Going Green: Environmental & Energy
Conservation Solutions**



Business Forum Workshop Sessions and Going Green: Environmental & Energy Conservation Solutions

Business Forum Page 3
Going Green: Environmental & Energy Conservation Solutions Page 4

Code Descriptions:

C = Customer Case Study
P = Panel Discussion
T = Technical Training
W = Workshop

“1-5” at the end of a session code indicates the length of the session. “1” being a one-hour session, “2” being a two-hour session, etc.

“A, B or C” at the end of a session code indicates the session is given more than one time. “A” represents the first time the session is being offered, “B” the second time, and “C” the third time. If an A, B or C does not follow a session code, the session is given only once.

Business Forum Workshop Sessions

TUESDAY, MARCH 24, 2009

Session 2: 11:00 a.m. – 12:00 p.m.

WBF-01-1 A global market perspective on the effects of financial uncertainty

ABB's Chief Financial Officer, Michel Demaré, will discuss the global market perspective on manufacturing in the current environment.

Sessions 3 and 4: 1:30 p.m. – 4:00 p.m.

PBF-01-2 (NOTE: 2 hour session)

Capturing and utilizing knowledge from the retiring workforce

As manufacturers face workforce issues such as retiring baby boomers, fewer graduates entering manufacturing and the drive towards doing more with fewer resources, capturing and utilizing the knowledge of the retiring workforce is becoming more and more important. Attend this session and participate in an open forum discussion of this critical issue and share ideas for technical people and process solutions to this universal issue.

Session 5: 4:30 p.m. – 5:30 p.m.

WBF-02-1 CEO Town Hall meeting

Meet ABB's CEO, Joe Hogan, in a town hall meeting format. Hear about his vision for ABB's future and engage in an open discussion of the opportunities and challenges associated with being competitive in today's global marketplace.

WEDNESDAY, MARCH 25, 2009

Session 6: 8:00 a.m. – 9:00 a.m.

WBF-03-1 The value of developing strong business partnerships

Collaboration and partnership is becoming even more important as companies seek to maintain profitability become sustainable over the long-term. NOVA Chemicals will share strategies for partnering across their manufacturing facilities, as well as within their supply chain. Learn how strong partnerships are a cornerstone for achieving optimized business management.

Session 7: 9:30 a.m. – 10:30 a.m.

WBF-04-1 ABB product direction for the process industries

The release of standards such as IEC61580 and the wireless initiatives have taken the integration of process and electrical equipment to a new level. New products, technologies and solutions are being developed for the generation, consumption and management of power in process manufacturing. This session will cover new developments in automation technology, as well as provide insight into the

benefits of integration of automation and electrical into a common control system environment.

Session 8: 11:00 a.m. – 12:00 p.m.

WBF-08-1 Enhancing the supply chain in capital projects

Fluor has adopted the PEP model based on concepts and research performed by the Construction Industry Institute (CII). This model shows that if key technologies and key partners are identified early, and if the benefits and synergies of these are leveraged into the design process, both time and cost are reduced. This presentation will discuss how to identify, develop, and engage unique competencies to improve and benefit Fluor's and ABB's own functions, operations, and services; thus ultimately reducing cost, schedule and differentiating its service offerings to end clients.

Session 9: 1:30 p.m. – 2:30 p.m.

WBF-05-1 It's all about leadership

All employees wish to be led by a winning leader, someone who is dynamic, competent, fair and authentic. The focus in It's All About Leadership is on 12 Leadership Principles which leaders should apply in order to engage and inspire their employees who in turn will further engage the company's internal and external customers. Attend this session to learn how you can paint a compelling picture of how every employee in an organization can positively impact the execution of your strategic plan.

Session 10: 3:00 p.m. – 4:00 p.m.

WBF-06-1 Lean and green manufacturing: ABB teaming with customers to improve the environment

While ABB is one of the most sustainable companies in the world, we are always looking for opportunities for improvement. Two of our utility customers are members of the EPA's Green Suppliers Network. They partner with suppliers like ABB to try to improve the environment. At their request, two ABB transformer facilities had Lean and Green manufacturing audits performed. The auditors looked at ABB's operations to try and reduce waste and increase efficiency. In this session, we will talk about the results of the Lean and Green audits and the benefits of the program to ABB and our customers.

Session 11: 4:30 p.m. – 5:30 p.m.

WBF-07-1 ABB product direction for power utilities

Join ABB's Chief Technology Officer, Peter Terwiesch, as he discusses trends in energy efficiency and grid reliability. Innovative new technologies from ABB help utilities generate power by wind and solar, as well as traditional methods and transport that power more efficiently than ever before. Learn how these new technologies can help power utilities not only improve their efficiency, but also contribute to a more sustainable and green world.

Going Green: Environmental & Energy Conservation Solutions

TUESDAY, MARCH 24, 2009

Session 1: 9:30 a.m. – 10:30 a.m.

CPO-01-1 Reducing carbon footprint and improving efficiency through advanced transmission systems

Difficulties in locating proper sites for generation interconnection and transmission line are expected in today's environment. However, the use of advanced transmission systems like FACTS is allowing companies to improve voltage stability, support the system immediately following critical contingencies, increase power throughput on congested lines and cope with the quickly changing generation interconnection and power flow patterns.

Session 2: 11:00 a.m. – 12:00 p.m.

WIN-04-1 Green instrumentation engineering practices in oil and gas applications

End user's business drivers include protecting health, safety and the environment while maximizing shareholder value. This workshop will share best practices in instrumentation engineering to help support end user business drivers. Fugitive emissions reduction, reduced utilities consumption and overall asset footprint reduction will be discussed. Several instrumentation design examples will be discussed in support of meeting big picture business objectives.

Session 3: 1:30 p.m. – 2:30 p.m.

CMD-04-1 Saving big bucks: How an energy audit reveals where new motors pay for themselves

Motors account for the majority of energy used by industry. With ever increasing energy costs, more companies are looking for ways to save money on their energy bills. An energy audit provides a comprehensive approach to reaching energy savings goals. The program starts by prioritizing where a plant can best save energy. This includes a site audit to allow the customer to make informed decisions about upgrading motors and adding variable speed drives to further control energy use. This workshop will cover a case study that illustrated how an energy audit was implemented and demonstrate the actual savings realized.

Session 4: 3:00 p.m. – 4:00 p.m.

WPO-05-1 Bright future advancements in solar technology

This course will examine the technology of solar energy and the many advancements that make it a viable source of power. Discussions will include recent innovations and how they improve efficiencies and cost effectiveness, as well as challenges that impact the growth of this industry.

Session 5: 4:30 p.m. – 5:30 p.m.

WPO-22-1 Lean manufacturing's unexpected windfall: A lower carbon footprint

Lean manufacturing is a well-known tool you can use to meet competitive threats and achieve sustainable competitive advantage. But your lean initiative creates more than just those obvious financial benefits - it also allows your company to drastically reduce its carbon footprint! This seminar will teach you how to highlight the green benefits that flow naturally from your company's lean initiative so you can spotlight your company's newly lowered carbon footprint and enhance your company's image as a friend of the environment - while still increasing your profits!

WEDNESDAY, MARCH 25, 2009

Session 6: 8:00 a.m. – 9:00 a.m.

WIN-03-1 Flue Gas Desulfurization (FGD) Scrubber pH control: Reducing emissions through tighter pH control

As stricter emission limits are imposed upon industries it is even more important to operate FGD scrubbers at peak efficiencies to guarantee maximum pollutant removal standards. One way to do this is to employ a pH sensor technology that provides the most stable, accurate, repeatable pH measurement for control purposes, to optimize pH control improving scrubber throughput and reducing costly down-time and maintenance due to scaling and plugging of spray nozzles and trays. The heart of a pH probe is a robust wood junction reference designed to withstand the harsh scrubber environment.

Session 7: 9:30 a.m. – 10:30 a.m.

PPO-12-1 What we need to do to keep the wind of change blowing

This panel discussion will include representatives from different areas of the renewable energy industry. The panel will discuss questions on topics such as permitting the principle economic factors driving the industry and government legislation, and what needs to take place to continue the advancement of renewable energy in the United States.

Session 8: 11:00 a.m. – 12:00 p.m.

TLC-08-1 Improved power quality and energy savings with the ABB active filter

Active filters do more than improve the power quality of complete systems, as they can also significantly reduce total power required in commercial and industrial facilities. This session covers how active filters operate, how they differ from other filtering methods, and how the energy saving is actually achieved. Learn how internal collaboration can drive efficiencies and increase productivity.

Session 9: 1:30 p.m. – 2:30 p.m.**CIN-01-1 Optimize burner combustion and reduce fuel costs in coal-fired power plants by tighter O2 control**

This session focuses on a customer case study describing the implementation of an ABB SMA O2/COe solution vs. traditional in-situ O2 only measurements. The workshop will outline the benefits that the customer experienced including the reduction of emissions and fuel costs.

Session 10: 3:00 p.m. – 4:00 p.m.**WLD-05-1 Energy savings equals "free" drives!"**

With today's energy costs on a sharp rise, the use of adjustable frequency drives is a smart choice for energy savings. This session will discuss and show the fundamentals of analyzing a variable flow/speed application to determine its energy savings potential.

Session 11: 4:30 p.m. – 5:30 p.m.**THURSDAY, MARCH 26, 2009****Session 12: 8:00 a.m. – 9:00 a.m.****WPO-08-1 Connect and communicate:****Automation solutions for alternative energy**

This session will delve into the wind-plant low voltage electrical and control systems from the perspective of interconnections and communication. The course will examine data that can be transmitted on the bus, variables that can be monitored and controlled, and information that can be monitored to improve system performance and reliability.

Session 13: 9:30 a.m. – 10:30 a.m.**WMM-03-1 Going green: Energy generation from waste heat**

High and rising electricity prices and the requirement to reduce CO2 emissions are strong drivers for innovative technical solutions. Energy intensive industries like cement and steel are looking for solutions to reduce their energy costs. An untapped energy resource is the vast amount of low temperature heat lost in many industry processes today. This session will provide answers to the following key questions: How does ABB's new type of small power plant convert the waste heat into electricity, without using fuel or generating CO2? What are the benefits and impact on energy efficiency?

Session 14: 11:00 a.m. – 12:00 p.m.**WRO-06-1 Robotics for alternative energy**

The race is on to implement alternative energy resources into an overall energy scheme. Robotics are playing an important part in bringing this fast-paced manufacturing sector on-line.

Session 15: 1:30 p.m. – 2:30 p.m.**WPO-01-1 Advanced energy management system applications for better control room decision making**

This course will take a look at new and advanced energy management functionality for making more informed decisions in the control room. The course will look at new energy-management tools such as Advanced Alarming Systems, Topology Error Identification and PMU Enhanced-State Estimators.

Session 16: 3:00 p.m. – 4:00 p.m.**WCS-07-1 Emerging technologies and the impact on automation systems**

New technologies are being released constantly. New ways of communicating and collaborating become more popular and widespread every day. New graduates have different experiences and expectations regarding technology and communications. When you think about cloud computing, RFID, social networking, next generation Microsoft software, nano-technology, wireless, and next generation fieldbuses and standards, you might wonder how all of these things can and should be applied to automation systems. Attend this workshop to hear thoughts and predictions from the automation technology experts.

Session 17: 4:30 p.m. – 5:30 p.m.**TPG-01-1 Reliable profitability for power**

This presentation will focus on how the power generation, transmission and distribution industry can reduce cost per megawatt and increase system reliability. Industry specific examples of successes and challenges that can arise will be addressed focusing on how to capture departing knowledge, create a sustainable solid reliability culture, simulate and utilize existing data to make solid business decisions and ensure a quick return on investment. Attendees can expect to gain a basic understanding of how to reengineer work processes, quantify gains using effective metrics, uses of reliability modeling, change management tools and the change process.