



AGENDA

WNFM 40th Annual Meeting and International Conference on Nuclear Fuel Istanbul, Turkey—June 9-11, 2013

Nuclear Power at the Crossroads— East Meets West in Istanbul

Since the days of Constantinople and the Byzantine empire, Istanbul has stood at the crossroads of Asia and the West. It is the nexus between two continents, and sits astride the critical trade route linking the Black Sea to the Mediterranean, the treasures of the Orient with empires of Europe. For the nuclear power industry, the shift from West to East is already apparent; mature markets in Europe and North America are being supplanted by faster-growing markets in the East, led by China and Korea. New players in Asia and the Middle East are changing the landscape of the industry. The rapid increase in China's development of a nuclear power infrastructure, from 17 units in operation today to potentially 75 to 100 by the middle of the next decade, will have significant ramifications for fuel supply and the workings of the market. At the same time, the lingering political and public-acceptance fallout from the Fukushima accident is having deleterious effects on prices and on suppliers who were anxious for the nuclear renaissance to get underway.

This year's WNFM Annual meeting will seek to juxtapose the differing outlooks for West and East. On one hand, the near-term retrenchment driven by nuclear phase-outs in Europe and the slow pace of restarts in Japan, combined with the challenging economics of a U.S. electricity market driven by cheap and abundant natural gas. On the other hand, the still-exciting growth plans in Asia, where China's fleet could surpass that of the United States by 2025, and where plans are well underway in countries such as Turkey, Saudi Arabia, India and Vietnam to follow on the lead of the United Arab Emirates (UAE) in developing new nuclear energy programs.

Conference attendees will hear from representatives from two countries with emerging nuclear programs, along with the infrastructure suppliers that are competing for that business in innovative ways. We will explore the future of small modular reactors and how China is investing in the fuel cycle as one way to secure supply. We will also examine how the fuel cycle may be changing in light of market circumstances, both in reactor operations as well as plans for additional uranium projects and conversion capacity, and the impact of government inventories in the market.

Finally, the conference will bring together leaders from each of the world's enrichment companies to discuss the future of that complex market, where several new technologies are vying to enter the supply picture at a time when prices have fallen and demand is growing more slowly than what was expected.

Welcome to Istanbul and the 40th WNFM Annual Meeting!

SUNDAY, JUNE 9

9:00 am – 1:00 pm

Istanbul Imperial Tour

(Gather in the Hotel Lobby at 8:45 am for 9:00 am departure)

6:00 pm – 7:30 pm

Welcome Reception—

Sponsored by Rio Tinto Uranium

MONDAY, JUNE 10

7:45 am – 8:45 am **Breakfast Buffet** – Daphne Restaurant

9:00 am **Welcome** – Ballroom A & B

Scott E. Melbye, Chairman, Board of Governors, World Nuclear Fuel Market
Executive Vice President, Marketing, Uranium One Inc.

Keynote Speaker **Turkish Nuclear Energy Program**

Uner Colak, Professor Nuclear Engineering, Istanbul Technical University

Session I **Emerging Markets and Technologies**

In recent years, several Asian and Middle Eastern countries have decided to pursue nuclear energy for the first time or to extend their existing reactor fleet in order to foster economic growth without compromising emissions targets. In the midst of planning their nuclear programs the financial crisis and Fukushima hit, prompting governments and investors to pause to reflect on the consequences to those programs. How have these events influenced those ambitious plans and what emerging markets and technologies will lead the industry forward in this new environment?

In the first session we will hear whether Turkey could be a potential future U_3O_8 source, and what China is doing in the mining sector to feed its growing fleet. We will learn from a leading reactor supplier about what they can offer to expand the contribution of nuclear energy around the world, and whether smaller, scaleable, nuclear technology is the answer in a difficult investment and licensing environment. Finally, an update of Japan's situation will help to better assess the future evolution of supply and demand in the fuel market.

Session Chairman

Martina Etmuss, Nuclear Fuel Manager, E.ON Kernkraft GmbH

- *In Search of Turkish Uranium*—Jim Graham, Anatolia Energy
- *Russian Strategy for Emerging Markets*—Jukka Laaksonen, Rusatom Overseas
- *The Business Case for Small Modular Reactors*—Ali Azad, The Babcock & Wilcox Company
- *Chinese Investment in Global Uranium Development*—Qiyang Wei, CGNPC Uranium Resources
- *Japan Update*—Atsufumi Yoshizawa, TEPCO

1:00 pm – 3:00 pm **Luncheon and Business Session** – Palandoken Ballroom

Scott E. Melbye, Chairman, Board of Governors

- Chairman's Report
- Election and Announcement of Results
- Any Other Business

3:00 pm Onwards Free time for individual and company networking meetings.

As a courtesy to the speakers, WNFM would be grateful if you would refrain from arranging business meetings in parallel with the presentation sessions.

TUESDAY, JUNE 11

7:45 am – 8:45 am **Breakfast Buffet** – Daphne Restaurant

Session 2
Fuel Cycle Issues
Ballroom A & B

9:00 am – 12:30 pm The ever-changing dynamics and interdependence of markets requires that participants constantly adapt to stay competitive. Organizations that adapt will grow and thrive in favorable market environments and survive in unfavorable ones. Success requires managing opportunities and risks effectively and performance in execution of strategy.

Nuclear fuel suppliers today face major retrenchments in anticipated demand in their sales markets and continued unpredictable sources of secondary supply, yet still have strong forecasted demand growth in some regions. Their customers, current and prospective nuclear power generators, are attempting to cope with opposite problems in different regions (phase-out vs. rapid expansion), as was discussed in Session 1, but also face in the United States severe cost pressures resulting from competition with new, large and cheap sources of natural gas.

In this session, our speakers will provide the approaches of two major uranium producers to today's apparent risks and opportunities, assess potential scenarios for the less costly but equally vital conversion process, present two innovative approaches of nuclear power generators to manage costs, and examine attempts by producers and end users to work together for a consensus with the U.S. government for a balanced and nondisruptive approach to sales of excess government-owned inventories.

Session Chairman

Frank Rives, Director, Nuclear Fuel, Entergy Services Inc.

- *Fuel Cycle Economics: Utility Responses to Rising Fuel Costs and Falling Power Prices*—Jim Nevling, Exelon
- *Conversion: What If?*—Jonathan Hinze, UxC
- *DOE U.S. Government Inventories: Industry Consensus?*—Trevia Klingbiel, TradeTech
- *Fabrication: New Supply Sources to Enhance Competition*—Tobias Winblad von Walter, Vattenfall
- *Adjusting Production Plans to Market Conditions*—James Dobchuk, Cameco
- *Kazakhstan's Future Role in the Uranium Market*—Daulet Massenov, Kazakhstan Representative

12:30 pm – 2:00 pm **Luncheon** – Palandoken Ballroom

Session 3
Evolution of the Enrichment Market
Ballroom A & B

2:00 pm – 4:00 pm Recent years have witnessed significant changes to the enrichment market, as lower-cost centrifuge technology has forced the imminent closure of the last gaseous diffusion plant, and as falling trade barriers and a more globalized market change the competitive structure of the industry. Still, the impact of Fukushima has also been significant for enrichers in the near term, as they battle falling prices and excess EUP supplies in the market while most of the Japanese fleet remains out of service and Germany begins its exit from the business. Furthermore, while uranium producers continue to look to China as the driver of most new demand in the coming decade, the established enrichers see less opportunity there given China's expected desire to become self-sufficient in nuclear fuel processing.

This session will explore how the competitive structure of the enrichment market may change in the next 10 years. AREVA has plans to build a facility in Idaho; Urenco intends to expand production in New Mexico;

TENEX also plans to expand and seeks further market-share growth worldwide; USEC hopes to build its centrifuge plant in Ohio, and GLE still has plans to commercialize its laser-based technology before the end of the decade. Is there room for all of this capacity expansion if China indeed becomes self-sufficient in enrichment, or even a potential exporter of SWU? If not, which technologies and suppliers will win out? And this being enrichment, no market analysis is complete without assessing the role of governments, either in supporting national enrichment programs and exports, or in blocking those from other countries. How will the ever-present government influence over this service affect the competitive balance of the industry in the future? Representatives from each of the world's enrichment companies will discuss how they intend to survive and thrive in this uncertain environment.

Session Chairman

Clark Beyer, Managing Director, Rio Tinto Uranium Ltd.

- Philippe Hatron, AREVA
- Chris Monetta, GLE
- Lyudmila Zalinskaya, TENEX
- Paul Harding, URENCO
- John Donelson, USEC

5:30 pm – 11:00 pm

Farewell Dinner – Sponsored by TENEX

Celebrating its 50th anniversary, TENEX has arranged a sightseeing and cocktail cruise on the Bosphorus Strait followed by dinner at the Feriye Mansion with Turkish entertainment.

(Departure from the hotel pier at 5:30 PM)