



Status and Outlook for Critical & Strategic Metals: Supply, Demand, Risks and Price

Tuesday, October 20, 2009
9:00AM – 4:45PM

9:00-9:30 Chairman's Introduction: Key Questions to Ask of the Critical Metals Industry

This presentation will address what current and planned critical metal technologies could fail due to resource limitations. How is criticality assessed and determined in the NAS Critical Minerals Study? Which is a critical factor to the continued growth of the metals industry, peak metals or peak production rate? Is there a priority list of critical metals?

Jack Lifton, *Industry Consultant*, JACK LIFTON LLC; *Member*, THORIUM ACTION GROUP (TAG); *Author*, "THE AGE OF TECHNOLOGY METALS" (FORTHCOMING, 2010); *Senior Fellow*, INSTITUTE FOR THE ANALYSIS OF GLOBAL SECURITY

Keynote Addresses:

9:30-10:00 Office of Net Assessment and Their Interest in the Potential Future Competition for Commodities

The presentation will address future competition for commodities, access to certain commodities and the effects influencing overall power or geostrategic competitiveness of nations.

Andrew May, Ph.D., *Special Assistant to the Director*, OFFICE OF NET ASSESSMENT, U.S. DEPARTMENT OF DEFENSE

10:00-10:30 From Bandeong Pool to DLA - Do Stockpiles Work?

Government stockpiling has been used in the past as a remedy for shortages, or perceived shortages, in minor metals. This address will review the historical track record for the stockpiling strategy, how well it has worked in actuality, and its general viability as a risk management approach for the future.

Anthony Lipmann, *Managing Director*, LIPMANN WALTON & CO. LTD.; *Chairman*, MINOR METALS TRADE ASSOCIATION 2003-2006

10:30-11:00 *Networking Break*

11:00-12:30

The Technology Metals

This panel will discuss questions regarding the **Technology Metals**, including: what are they, where are they, how do you plan to process them and will the price be low enough that you can sell them at a market price? Elements to be covered include **Rare Earth Metals, byproducts of Base Metals, and Platinum Group Metals** in automotive and chemical industries. Topics to be discussed include geology, mining economics, mining politics, end use economics and effects on civilian and military production.

Moderator:

Mark A. Smith, *CEO, MOLYCORP*

Panelists:

Gary Billingsley, *Executive Chairman, GREAT WESTERN MINERALS GROUP LTD.*

Kevin Bottomley, *Shareholder Services, COMMERCE RESOURCES*

Don Bubar, P Geo., *President & CEO, AVALON RARE METALS INC.*

David Kennedy, *+Managing Director, Metals and Alloys, LESS COMMON METALS LTD. AND GREAT WESTERN MINERALS GROUP LTD.*

Dudley Kingsnorth, *Executive Director, INDUSTRIAL MINERALS COMPANY OF AUSTRALIA*

12:30-1:00

Luncheon Address: Rare Earths—The Problem Child and Attention Deficit America

This presentation will explore how **Rare Earths** are not like the other elements. They are brilliant, stubborn and complex, and at the same time are both chemically similar and uniquely individual. With all these differences, what is the process for these wide ranges of minerals to be separated and utilized? How has America's past ignorance to the decreasing supplies and low costs of metals going to affect our future technology advances?

James B. Hedrick, *Rare Earth Commodity Specialist, U.S. GEOLOGICAL SURVEY*

12:30-1:00

Lunch Served in John F's Restaurant

2:00-3:15

The 'Alternative Energy' Metals

This session will provide an analysis of challenges around many of the essential metals used in clean power generation, electronics and high technology industries. Elements to be covered include **Cadmium, Gallium, Hafnium, Indium, Lithium, Platinum Group Metals, Rare Earth Metals** (with a focus on **Neodymium** and **Lanthanum**), **Rhodium, Tantalum** and **Zirconium**. Challenging topics to be discussed include geology, mining economics, mining politics, end use economics and effects on civilian and military production.

Moderator:

Jack Lifton, *Industry Consultant, JACK LIFTON LLC; Member, THORIUM ACTION GROUP (TAG); Senior Fellow, INSTITUTE FOR THE ANALYSIS OF GLOBAL SECURITY*

Panelists:

Chris Hartshorn, Ph.D., *Research Director, LUX RESEARCH*

Dudley Kingsnorth, *Executive Director, INDUSTRIAL MINERALS COMPANY OF AUSTRALIA*

Mark A. Smith, *CEO, MOLYCORP*

Patrick Stratton BA, *DipM, MCIM, SENIOR ANALYST, ROSKILL INFORMATION SERVICES LTD.*

David L. Trueman, Ph.D, P Geo, *Consulting Geologist, AVALON RARE METALS INC.*

3:15-3:45 *Networking Break*

3:45-4:45 **Lithium Supply: Abundant Supply or At Risk?**

Today, **Lithium** is at the center of attention for the electrification of the automobile. With a combined 200 years of experience in the exploration for, production development of, end-uses of and recycling of metals, this panel will discuss the present and future market fundamentals and end-uses of **Lithium**.

Moderator:

Don Bubar, P.Geo., *President & CEO*, AVALON RARE METALS INC.

Panelists:

Keith Evans, *Industrial Minerals Consultant*, R. KEITH EVANS & ASSOCIATES

Dirk Naumann, *President*, JUNIPER ASSOCIATES

Novis Smith, *VP, Technology*, LITHCHEM ENERGY (TOXCO INC.)

Yaron Vorona, *Executive Director*, INTERNATIONAL LITHIUM ALLIANCE

Jay Chmelauskas, *President*, WESTERN LITHIUM CORPORATION

4:45 **Executive Forum Adjourns**