

# **World Nuclear Fuel Cycle Conference 2009**

**Sydney, Australia  
22 – 24 April 2009**

**ISBN: 978-1-61567-406-0**

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2009) by the Nuclear Energy Institute  
All rights reserved.

Printed by Curran Associates, Inc. (2009)

For permission requests, please contact the Nuclear Energy Institute  
at the address below.

Nuclear Energy Institute  
1776 I Street NW, Suite 400  
Washington, DC 20006-3708

Phone: (202) 739-8000

Fax: (202) 785-4019

[www.nei.org](http://www.nei.org)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2634  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# TABLE OF CONTENTS

<b>Perspective on Australian Issues</b> .....	1
<i>M. Angwin</i>	
<b>Australia to go Nuclear!</b> .....	6
<i>I. J. Duncan</i>	
<b>The Case for Uranium Enrichment in Australia</b> .....	19
<i>C. J. Hardy</i>	
<b>Nuclear Outlook in the United States</b> .....	31
<i>J. Conway</i>	
<b>Green Growth with Nuclear Energy</b> .....	51
<i>J. Kim</i>	
<b>Nuclear Energy Industry and the Global Economic Crisis</b> .....	77
<i>P. Schedrovitskiy, V. Korogodin</i>	
<b>The Booming Nuclear Power Industry &amp; The Security of Nuclear Fuel Supply in China</b> .....	85
<i>C. Xinyang</i>	
<b>Uranium Production Cost</b> .....	106
<i>A. Gagarin</i>	
<b>Advancing the Business Case for Managing Commercial Used Fuel from a North American Perspective</b> .....	122
<i>J. Malone, S. Goldberg, M. Caplan</i>	
<b>Reality Check : The Nuclear Fuel Supply Chain</b> .....	137
<i>V. Maureaux</i>	
<b>Growth in the Uranium Industry: Lessons Learned</b> .....	155
<i>K. Seitz</i>	
<b>Ranger Mine - Past, Present &amp; Future</b> .....	170
<i>D. Paterson</i>	
<b>Honeymoon Project Update</b> .....	184
<i>G. Cochran</i>	
<b>Uranium Resources: Limits to Grade?</b> .....	209
<i>G. Capus</i>	
<b>Beverley Uranium Mine Lease Extension</b> .....	238
<i>M. Wedd</i>	
<b>Alliance Resources</b> .....	264
<i>P. Mutz</i>	
<b>Trends in the Nuclear Fuel Cycle</b> .....	296
<i>T. J. Lee</i>	
<b>Toro Energy Limited - On Track to Sustainable Uranium Production</b> .....	318
<i>G. Hall</i>	
<b>Lethakane Uranium Project</b> .....	341
<i>A. Tunks</i>	
<b>Advanced Stage Uranium Development in Wyoming</b> .....	359
<i>G. Hartman</i>	
<b>E4=End of the Easy Energy Era</b> .....	408
<i>F. Almerico</i>	
<b>Mitsubishi Nuclear Technology, Experiences and Continuing Innovation</b> .....	452
<i>K. Yamauchi</i>	
<b>Risk Informed Approach in Regulating Transport of Spent Fuel Arising from Research Reactors in Australia</b> .....	473
<i>S. Sarkar, J. Templeton</i>	
<b>Closing the Nuclear Fuel Cycle - Thorium and Advanced Alternatives</b> .....	492
<i>C. D. Heising</i>	

Author Index