AusIMM International Uranium Conference 2013

Darwin, Australia 11-12 June 2013

ISBN: 978-1-5108-2299-3

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© (2013) by Australian Institute of Mining & Metallurgy (AusIMM) All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact Australian Institute of Mining & Metallurgy (AusIMM) at the address below.

Australian Institute of Mining & Metallurgy (AusIMM) P.O. Box 660 Carlton South Victoria 3053 Australia

Phone: 61 3 9658 6100 Fax: 61 3 9662 3662

publications@ausimm.com.au

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400

Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

CONTENTS

Keynote Presentations

Regulatory Reform of the Australian Uranium Industry M Angwin

The World Nuclear Energy Picture - Where is it Going? I Hore-Lacy

Maintaining a Forward Focus B Reilly

Geology and Exploration

Successful Mineral Exploration in Areas of no Outcrop in the Alligator Rivers

Uranium Province, Northern Territory

Recent Uranium Mineral System Analysis in the Northern Territory D Close, I Cleverley and

S Schmid

Cameco Australia - An Exploration Update D Ewington

A Re-Appraisal of the Angela-Pamela Uranium Deposits J Higgins, G Price and

S Stander

From Advanced Geophysical Surveying and Borehole Logging to Optimised

Uranium In Situ Recovery Technology - Fiction or Reality?

H Maerten, A Marsland-Smith, J Ross, M Haschke, H Kalka and J Schubert

A L L Browne and G R Ryan

G Price, A Brown and Exploration for Uranium Under Cover - Trials of Biogeochemical Prospecting,

at the Bowgan Uranium Project, Barkly Tablelands, Northern Territory

J P Howard

D Rawlings

Why Explore for Uranium in Central Australia? - Toro Energy's Experience

Regional Airborne Electromagnetic Surveying - Here Comes the Pay-Off!

I C Roach, M T Costelloe and

S *Jaireth*

The MIRIAM Case - A New Type of Uranium Deposit within the Carboniferous Sandstone-Hosted Uranium Mineralisation of the Arlit Agadez Province, Tim

Mersoi Basin, Niger

H Sanguinetti, T Mahaman, I Aouami, R Bowell and

D Guibal

Mineralogical Differences in the Carboniferous Mt Eclipse Sandstone, Ngalia Basin,

Northern Territory – Implications for Uranium Mineralisation

S Schmid and B Smith

A Thompson and H Smith

Government Approvals, Policy and Community Relations

Uranium Production Legacy Sites in Central Asia R Edge and P Waggitt

The Rum Jungle National Partnership Agreement T Laurencont and M Rider

The Implementation of an Independent Hydrogeological Review of the Tailings

Storage Facility at Ranger Uranium Mine by Mirarr Traditional Owners

Arctic Yellowcake - Denmark and Greenland's Uranium C Vestergaard

Politics of Uranium - What are Researchers Doing? C Vestergaard and

F Bourgouin

Health, Safety and Environment Best Practice

20 Years of Application of Wick Drains to the Remediation of Wismut's Tailings Management Facilities - A Synopsis

U Barnekow and G Merkel

Evaluation of Alternative Rehabilitation Scenarios for Rum Jungle via a Multiple Accounts Analysis

P Ferguson, C Wels and T Laurencont

Progressive Rehabilitation at Ranger Uranium Mine

The German Wismut Environmental Remediation Program - Status Achieved and Challenges Remaining

M Paul

PLu

From Leading Practice Technology to Regulation - The Development of a Framework for Regulating Short-Term Pulse Exposures to Mine Water Discharges at a Uranium Mine in Northern Australia

A Sinclair, K Tayler, R van Dam and A Hogan

Constructive and Bipartisan Cooperation to Maintain Best Leading Practice in Surface Water Management at Ranger Uranium Mine, Northern Territory, Australia

M P Taylor and B T Hart

Uranium Mining and Remediation - Are we Learning?

P Waggitt

International Case Study and Mining, Milling and Transport

The History of Rum Jungle 1949 to 2009

M Fawcett and P Waggitt

Enhanced Uranium Production via Subsurface Stirring

D Lester, G Metcalfe and

M Trefry

The Ranger 3 Deeps Project

M Nott

Improving Asset and Process Performance at the Ranger Mine

S Reeves

Contemporaneous Underground Development and Closure of the Ranger Uranium Mine

G Sinclair

Processing Technologies

Critical Issues with Developing Uranium Projects with Current Low Uranium Prices

D Connelly

PhosEnergy - A Case Study in Complex Test Work Management

I Davidson

Assessing Options for Tailings Placement

C Ehrman

Uranium Overview - Precipitation to Converter

G Jobling

What is 'Green' Uranium?

T Pool and B Jones

A New Ion Exchange Resin for Resin-in-Pulp Technology

A Rezkallah and C Connolly

Applications for the Fabric Media Water Filtration Technology with Uranium

S Shipard

Hydromet Processing