MINING, AGRICULTURE AND DEVELOPMENT

Bread from stones?

The Crawford Fund
2013 Annual Conference
A joint conference of the Crawford Fund and the Africa Australia Research Forum
Perth, Western Australia
26–27 August 2013
MINING, AGRICULTURE AND DEVELOPMENT

Bread from stones?

The Crawford Fund
19th Annual Conference

A joint conference of the Crawford Fund and the Africa Australia Research Forum

Perth, Western Australia
26–27 August 2013

Editor: Ann Milligan
The Crawford Fund

The Australian Academy of Technological Sciences and Engineering established the Crawford Fund in June 1987. Named in honour of the late Sir John Crawford, the Fund commemorates his outstanding services to international agricultural research. The Crawford Fund is a non-profit, non-government organisation, dedicated to raising awareness of the benefits to developing countries and to Australia of international agricultural research. The Fund depends on grants and donations from governments, private companies, corporations, charitable trusts and individual Australians. It also welcomes partnerships with agencies and organisations in Australia and overseas.

The Fund promotes and supports international R&D activities in which Australian research organisations and companies are active participants. It supports the work of the Australian Centre for International Agricultural Research (ACIAR), the Australian Agency for International Development (AusAID), the CGIAR Consortium and other international research centres.

The annual conference is a key part of the Fund’s public awareness campaign, which increases understanding of the importance and potential of international agricultural research, its achievements and needs.

The Fund also runs training programs that fill a niche by offering practical, highly focused non-degree instruction to women and men engaged in agricultural research and management in developing countries.

The Crawford Fund
Level 3, 10 National Circuit
Barton ACT 2600, Australia

Phone: +61 (0)2 6188 4370
Email: crawford@crawfordfund.org
Web: http://www.crawfordfund.org/

©The Crawford Fund 2014
ISBN 978 1 921388 27 9

Cite this work as:
Contents

Page no.
ii  The Crawford Fund
iv  Acknowledgements
v  Foreword
   The Hon. John Kerin AM
1  Welcome Address
   His Excellency Malcolm McCusker AC CVO QC
4  Personal reflections on Sir John Crawford
   Dr Denis Blight AO FRSA
The Sir John Crawford Memorial Address
7  Opportunities in the midst of the global food crisis
   Hon Dr Florence Chenoweth
Keynote Address
12  Developing opportunities and challenges for mining
    and agriculture
    Mario Pezzini
Exploring the nexus between mining and agriculture for development
18  Agriculture and mining in the Beira Corridor
    Emerson Zhou
24  Bread from stones: no single recipe
    Peter Sullivan
33  Picks and ploughs: revitalising local economic development in
    rural sub-Saharan Africa
    Professor Gavin Hilson
38  Mining and agriculture for development: exploring the nexus
    Professor Kevin Chika Urama
Keynote Address
45  The roles of agriculture and mining in pro-poor sustainable
    development in Africa
    His Excellency Festus G. Mogae
Strategies and policies to support sustainable community development
51  Strengthening Africa's capacity for innovation in animal
    agriculture: the agriculture–mining conundrum of grass or brass,
    bread or stones
    Dr Yemi Akinbamijo
58  Industry and infrastructure can contribute substantially to
    African economic growth
    His Excellency Sindiso Ndema Ngwenya
62  Integrating mining into the economies of Africa
    Dr Hudson Mtegha
Conference overviews
65  Synthesis of the Q&A panel discussion
    Dr Denis Blight AO FRSA
69  Q&A panel discussion
    Hon Dr Florence Chenoweth, His Excellency Festus Mogae,
    Hon John Kerin AM, Ann Harrap
Acknowledgements

For the 2013 Annual Conference, the Crawford Fund wishes to thank:

Chairs of the conference sessions
Hon John Kerin AM, Chairman of the Crawford Fund
Bill Repard, President of the Australia Africa Business Council
Jamie Isbister, AusAID
Dr Brian Keating, CSIRO Sustainable Agriculture Flagship
Trish O’Reilly, Australia-Africa Mining Industry Group
Professor Steve Hall, WA School of Mines at Curtin University
Professor David Morrison, Murdoch University
Rick Yeates, Middle Island Resources Ltd
Mellissa Wood, Australian International Food Security Research Centre, ACIAR
Ian Satchwell, International Mining for Development Centre
Max Bankole Jarrett, Coalition for Dialogue on Africa
Dr Denis Blight AO FRSA, CEO of the Crawford Fund

Conference organising committee members
David Doepel, Organising Committee Co-Chair
Dr James Ridsdill-Smith, Organising Committee Co-Chair
Terry Enright, WA Committee Chair
Professor Jen McComb, WA Committee Coordinator
Cathy Reade, Crawford Fund

Our supporters and sponsors
Africa DownUnder
Australian Academy of Technological Sciences and Engineering (ATSE)
Australian Agency for International Development (AusAID)
Australian Agricultural and Resource Economics Society (AARES)
Australian Centre for International Agricultural Research (ACIAR)
Australian Government Department of Agriculture, Fisheries and Forestry (DAFF)
Australian International Food Security Research Centre, ACIAR (AIFSRC)
CSIRO Sustainable Agriculture Flagship
Curtin University
Grains Research and Development Corporation (GRDC)
International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)
International Mining for Development Centre
Murdoch University
Rural Industries Research and Development Corporation (RIRDC)
The University of Queensland School of Agriculture and Food Sciences
The World Vegetable Centre (AVRDC)