

TABLE OF CONTENTS

KEYNOTE PAPER:

1. [Agglomeration During Conveying and Handling of Particulate Solids](#)
Dr. Wolfgang Pietsch..... 1

FUNDAMENTALS & RESEARCH:

2. [Multiparticulate Simulation of Powder Compaction with Finite Element Discretization at the Particle Level](#)
Antonios Zavaliangos..... 12
3. [Agglomeration Technology and Process Analytical Technology \(PAT\) in the Pharmaceutical Industry](#)
Dr. Ronald W. Miller..... 26
4. [Characterization of Agglomerates](#)
Christine Croteau, Eng. and Guy Paquet, Eng..... 40
5. [Analysis of the Roller Press Forming Cavity Profile Using Finite Element Simulation](#)
Dr. Roman T. Dec, Antonios Zavaliangos, and Richard Komarck..... 55
6. [Near Infrared Monitoring of Roller Compaction](#)
Abhay Gupta, Garnet Peck, Ronald W. Miller, and Kenneth R. Morris..... 65
7. [The Organic Matrix: Special Aspects of Agglomeration](#)
Richard L. Johnson and Carolyn Sturgess..... 79
8. [Selection of an Agglomeration Method](#)
Sara Gantner..... 93

EQUIPMENT & PROCESS

9. [Circuit Design for the Compaction of Muriate of Potash](#)
Stuart Middleton, P.Eng..... 102
10. [Using Digital Image Analysis for Process Control in Pelletizing and Agglomeration Processes](#)
Kraig Raiber, Tom BoBo, Jeff Handy, Kirstin Girdner, Greg Potts, and Brian Norton..... 116
11. [A Coal Briquetting Odyssey](#)
Steve Bray..... 131

BINDERS & COATINGS:

12. [Physiochemical Models for the Utilization of Binders in Particle Agglomeration and Compaction: A Review](#)
Dr. Thomas R. Marrero..... 139

- 13. Coating Technology and Performance for Fertilizers and Related Granular Products
Vic Granquist and Chris Kozicki..... 150
- 14. PAM-12 Soil Granules: A Manufacturing and Process Development Perspective
Brent Cummings..... 159

RECOVERING & RECYCLING:

- 15. The Use of Modeling Techniques to Optimise the Design and Operation of a Briquetting Facility
at BlueScope Steel Australia
Paulo Almeida, Steve Haines, Paul Language, and Shane Sullivan..... 163
- 16. Minimisation of the Production of Baghouse Dust in Electric Arc Furnaces by Introducing Self-
Reducing Briquettes together with the Scrap
A. Ugarte, A. Lopez-Delgado, A. Formoso, and F. A. Lopez..... 172

IBA Officers and Board of Directors..... 182

IBA Past Officers..... 183

Neal Rice Awards..... 184

The Institute for Briquetting and Agglomeration Information..... 185

IBA Membership Roster..... 188

Advertising Index..... 192