TUESDAY 27 APRIL 1999

MORNING SESSION — 9.00 a.m.

Official Opening of the Conference by Professor Bernard Moulden, Vice-Chancellor, James Cook University

10.30 a.m.—11.00 a.m. Morning tea

GENERAL SESSION
Chairman: J.C. Baird

Paper: 11.00 a.m.—11.30 a.m. The evolution of the project development process at SRI, by V. Mason and G.E. Bullock .................................................................................................................................................. 1

Paper: 11.30 a.m.—12.00 p.m. Monitoring nitrogen at the mill to guide N fertilisation practice on farm, by B.A. Keating, G. Kingston, A.W. Wood, N. Berding and R.C. Muchow .......................................................................................................................... 10

Paper: 12.00 p.m.—12.30 p.m. On-line cane analysis by near infra-red spectroscopy, by S.P. Staunton, P.J. Lethbridge, S.C. Grimley, R.W. Streamer, J. Rogers and D.L. Mackintosh .................................................. 20

12.30 p.m.—1.30 p.m. Lunch

AFTERNOON SESSION—1.30 p.m.

GENERAL SESSION
Chairman: B.C. Glasgow

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Paper: 2.00 p.m.—2.30 p.m. A survey of field CCS versus mill CCS, by T.D. Crook, G.M. Pope, S.P. Staunton and C.P. Norris .............................................................................................................. 33

Paper: 2.30 p.m.—3.00 p.m. The effect of extraneous matter on factory throughput and performance, by G.A. Kent, W.J. Allen, C.P. Hoare and T.F. Dixon .................................................. 38

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GENERAL SESSION
Chairman: J.C. Baird

Paper: 3.30 p.m.—4.00 p.m. Improving cane yield estimates for farm paddocks, by A.J. Higgins, A. Stafford, R.C. Muchow, and A.V. Rudd .............................................................................................................. 44

Paper: 4.00 p.m.—4.30 p.m. Development of a crop size model to assist expansion planning, by G.S.D. Smith and M.D. Schuurs .............................................................................................................. 51

Paper: 4.30 p.m.—5.00 p.m. Cane supply and transport in the Ord, by Ben O’Reilly .................................................. 56

5.00 p.m.—6.00 p.m. Presentation of the Sugar Industry Innovator Awards/Research Awards

6.00 p.m. Cocktail Party

WEDNESDAY, 28 APRIL 1999

MORNING SESSION—8.00am

AGRICULTURE SESSION
Chairman: E.S. Wallis

Paper: 8.00 a.m.—8.30 a.m. Rotations in southern wheat farming systems—the platform for sustained yield improvement, by J.A. Kirkegaard .............................................................................................................. 63

Paper: 8.30 a.m.—9.00 a.m. Rotation and fumigation effects on the growth and yield of sugarcane, by A.L. Garside, M.J. Bell, G. Cunningham, J. Berthelsen and N. Halpin .............................................................................................................. 69

Paper: 9.00 a.m.—9.30 a.m. Rotation-induced changes in soil biological properties and their effect on yield decline in sugarcane, by C.E. Pankhurst, R.C. Magarey, G.R. Stirling, J.A. Holt and J.D. Brown .... 79

9.30 a.m.—10.00 a.m. Morning tea
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Paper: 10.30 a.m.—11.00 a.m. An assessment of soil and plant silicon levels in north Queensland, by S. Berthelsen, A.D. Noble and A.L. Garside ................................................................. 92

Paper: 11.00 a.m.—11.30 a.m. Strategic tillage for planting sugarcane, by M.V. Braunack, D. McGarry, L.R. Crees and N.V. Halpin ................................................................. 101

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12.00 p.m.—1.00 p.m. Lunch

MANUFACTURING SESSION (concurrent)
Chairman: G.M. Sawyer

Paper: 8.00 a.m.—8.30 a.m. Crushing soil contaminated sugar cane, by C.M. Downing, J.G. Loughran and S.A. Domani ................................................................. 294

Paper: 8.30 a.m.—9.00 a.m. Mill roller design and operational stress states, by S.I. Anderson and J.G. Loughran ................................................................. 301

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Chairman: M.K. Statham

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12.00 p.m.—12.30 p.m. Administrative AGM
12.30 p.m.—1.30 p.m. Lunch
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AGRICULTURE SESSION
Chairman: A.L. Garside

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Paper: 1.30 p.m.—2.00 p.m. Leaf analysis—What does it offer the Australian sugar industry? by B.L. Schroeder, A.W. Wood, G. Kingston, J.H. Meyer and R.O. Barnard .................................................. 122

Paper: 2.00 p.m.—2.30 p.m. Re-evaluation of the basis for fertiliser recommendations in the Australian sugar industry: an economic perspective, by M.K. Wegener .................................................. 131

2.30 p.m.—3.00 p.m. Afternoon tea

Paper: 3.00 p.m.—3.30 p.m. Effects of wet soil during early season ratoon establishment on sugarcane grown under different trash management systems in southern canelands, by M.J. Bell, N. Halpin, G. Cunningham, A.L. Garside and G. Kingston .................................................. 139

3.30 p.m.—4.30 p.m. Agricultural posters

4.30 p.m.—5.00 p.m. Agriculture AGM

MANUFACTURING SESSION
Chairman: B.P. Edwards

1.30 p.m.—3.00 p.m. Manufacturing posters
(includes brief presentation by authors)

3.00 p.m.—3.30 p.m. Afternoon tea

MANUFACTURING SESSION (concurrent)
Chairman: G.M. Sawyer

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Chairman: M.K. Statham

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Paper: 4.00 p.m.—4.30 p.m. Applications and benefits of membrane filtration for the Australian sugar industry, by R.J. Steindl and C.D. Doyle .................................................. 406

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Chairman: B.P. Edwards

• NIR Technology—its future in the raw sugar process

   Topic Chairman: J. Mason

• Pump Seals—Selection and applications

   Topic Chairman: C. Derlagen

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THURSDAY, 29 APRIL 1999

MORNING SESSION — 8.00 a.m.

AGRICULTURE SESSION (concurrent)
Chairman: A.I. Linedale

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Paper: 8.30 a.m.—9.00 a.m. Development of Metarhizium-based biopesticides for sugarcane pest management—current progress and future prospects, by P.R. Samson, R.J. Milner and G.K. Bullard .......................................................... 156

Paper: 9.00 a.m.—9.30 a.m. Evidence for density-stabilising effects influencing the population dynamics of greyback canegrub in northern Queensland, by A.L. Ward and L.N. Robertson .......................................................... 164

Paper: 9.30 a.m.—10.00 a.m. Transgenic sugarcane with increased resistance to canegrubs, by Kerry A. Nutt, Peter G. Allsopp, Tony K. McGhie, Kellie M. Shepherd, Priya A. Joyce, Greg O. Taylor, Richard B. McQuaite and Grant R. Smith .......................................................... 171

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Chairman: A.L. Garside

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Chairman: G.M. Sawyer

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10.30 a.m.—11.30 a.m. ASSCT AGM

11.30 a.m.—1.00 p.m. Lunch for Manufacturing delegates

11.30 a.m.—12.30 p.m. Lunch for Agricultural delegates

AFTERNOON SESSION — 12.30 p.m.

AGRICULTURE SESSION (concurrent)
Chairman: A.I. Linedale

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Chairman: A.L. Garside

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2.30 p.m. Mill visit

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FRIDAY, 30TH APRIL 1999

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AGRICULTURE SESSION
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Paper: 9.00 a.m.—9.30 a.m. The code of practice for sustainable cane growing in Queensland—its development and future directions, by Ingrid Christiansen ........................................... 267

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AGRICULTURE SESSION
Chairman: A.I. Linedale

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Chairman: J. Mason

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