TUESDAY, 26TH APRIL 1994

AFTERNOON SESSION — 2.00p.m.

GENERAL SESSION
Chairman: J.C. Baird

Paper: Farm area development and the implications for habitat remnants, by M.O.W.G. Thomas, G.P. Luckacs and J.A. Nolen .......................................................... 1


Tea break 3.00p.m. — 3.30p.m.

Paper: Experience of CSR Sugar Mills Group on the purpose and application of environmental auditing, by W.A. McIlroy, R.J. Smith and R.V. Ames ....................... 15


Paper: River inputs of N and P to the Central Great Barrier Reef (16°–19°S), by A.W. Mitchell and M.J. Furnas .......................................................... 30

WEDNESDAY, 27TH APRIL 1994

MORNING SESSION — 8.30a.m.

MANUFACTURING SESSION
Chairman: W.B. Crawford

Paper: Reducing the derailment proneness of cane wagons with Willison couplings, by G.A. Kent and C. Medic .......................................................... 210

Paper: Recent developments to improve cane railway operations, by R.A. James ............................... 216


Tea break 10.00a.m. — 10.30a.m.

Paper: Evaluation of an upgrade to CSR Victoria Mill's activated sludge plant, by J. Joyce and B. Ferris .......................................................... 229

Paper: Design and operation of a containment system for contaminated vacuum pan Torri water, by G. Pope, A. Rossi, A. Leotta and R. Watters .......................................................... 234

Paper: Single pass cooling spray pond system, by G.R. Shaw, G.M. Pope, E.J. Tasko and G.H. Morrison .......................................................... 240

AGRICULTURAL SESSION
Chairman: M.C. Cox

Paper: Growth and sugar accumulation in one- and two-year crop cycles in New South Wales, by M.C. Cox, P.B. Hansen and E.R. Halli .......................................................... 38

Paper: Selecting superior sugarcane crosses for the Herbert River District, by P.A. Jackson, T.A. McRae and D.M. Hogarth .......................................................... 47

Tea break 9.30a.m. — 10.00a.m.

Paper: Effects of nitrogen placement on crop production under furrow irrigated, trash blanket conditions, by G.G. McMahon, G.J. Ham and R.W. Brandon .......................................................... 55

Paper: A review of row spacing research in the Australian sugar industry, by D.R. Ridge and A.P. Hurney .......................................................... 63

Paper: Ridge planting sugarcane on heavy clay soils in the Burdekin, by G.G. McMahon and G.J. Ham .......................................................... 70

Paper: MYFARM — mastering your financial and rural management: A successful approach to marketing information, by J. Mackson, N.J. Poulsen and B.C. Dominiak .... 75

Brief presentations by authors of agricultural posters
POSTER SESSION

Posters will be displayed all day Wednesday and Thursday in the foyer area. Authors should be in attendance immediately after presentations and at tea breaks.

AFTERNOON SESSION — 1.30p.m.

MANUFACTURING SESSION
Chairman: C.G. Smith

Paper: Shear, friction and the required roll roughness, by F. Plaza and B.P. Edwards .......................... 244
Paper: Modelling of trajectories in pneumatic cane cleaning, by K.N. Joyce and B.P. Edwards ............. 257

Tea break 3.00p.m. — 3.30p.m.

Paper: A model for the juice flows through a moving bed cane diffuser, by T. Picaro, E.T. White and B.P. Edwards ................................................................. 278

Meeting of Manufacturing Section

AGRICULTURAL SESSION
Chairman: P.J. McGuire

Paper: Fertiliser N management in Australia, by L.S. Chapman .................................................. 83

Tea break 2.30p.m. — 3.00p.m.

Paper: Uptake and loss of fertiliser and soil nitrogen in sugarcane crops, by I. Vallis and B.A. Keating ................................................................. 105
Paper: Ammonia loss following urea addition to sugar cane trash blankets, by J.R. Freney, O.T. Denmead, A.W. Wood and P.G. Saffigna ........................................ 114
Paper: Relating crop nitrogen uptake to sugarcane yield, by R.C. Muchow and M.J. Robertson .......... 122
Paper: Modelling and its application to nitrogen management and research for sugarcane, by B.A. Keating, I. Vallis, W.J. Parton, V.R. Catchpoole, R.C. Muchow and M.J. Robertson .................................................. 131

Meeting of Agricultural Section

THURSDAY, 28TH APRIL 1994

MORNING SESSION — 8.30a.m.

MANUFACTURING SESSION
Chairman: W.B. Crawford

Paper: Enhancing a small sugar dryer's performance by K.C. Ord and P.R. Stuart .......................... 295
Paper: Guidelines for better sugar dryer operation, by A.L. Schinkel and P.J. Tait .......................... 299

Tea break 10.00a.m. — 10.30a.m.
AGRICULTURAL SESSION  
Chairman: M.C. Cox


Paper: Efficacy of terbufos against African black beetle, by P.R. Samson and P.R. Downs 159

Tea break 10.00a.m. — 10.30a.m.

SPECIAL GENERAL MEETING — 10.30a.m.

Consider adoption of Rules for Incorporation in lieu of the Constitution.

ANNUAL GENERAL MEETING — 10.45a.m.

Chairman: A.W. Wood
(a) Secretary's report and financial statements
(b) Committee reports
(c) General business

AFTERNOON SESSION — 1.30p.m.

MANUFACTURING SESSION  
Chairman: C.G. Smith


AGRICULTURAL SESSION  
Chairman: P.J. McGuire

Paper: Identifying factors limiting cane productivity: Results of a Bundaberg Farm Study, by M.A. Smith, T.G. Willcox, R. Culpitt and R.B. Bartholomew .......... 164

MANUFACTURING AND AGRICULTURAL DELEGATES WILL DEPART FOR THE VARIOUS TOURS AT 2.00p.m.

FRIDAY, 29TH APRIL 1994

MORNING SESSION — 8.30a.m.

MANUFACTURING SESSION  
Chairman: W.B. Crawford

Paper: The use of NMR for the measurement of the crystal contents of massecuites, by R.A. Pax .......................................................... 314

Paper: Improving the quality of C sugar magma, by R. Broadfoot, K.F. Miller and H.C. Bartholomew .......................................................... 320


Tea break 10.00a.m. — 10.30a.m.


Paper: Condenser studies at Mulgrave Mill, by Jeff Snoad .......................................................... 344
AGRICULTURAL SESSION
Chairman: M.C. Cox

Paper: Effects of cane harvester basecutter parameters on the quality of cut, by S. Kroes and H.D. Harris 169

Paper: Development of soil conservation specifications in the coastal Burnett District, by D.J. Sullivan and M.M. Sallaway 178

Paper: Effect of soil fumigation on sugarcane productivity under high yielding conditions in north Queensland, by R.C. Muchow, M.J. Robertson, A.W. Wood and M.F. Spillman 187

Tea break 10a.m. — 10.30a.m.

Paper: Future research challenges for efficient crop water use in sugarcane production, by M.J. Robertson and R.C. Muchow 193

Paper: Benchmarking yield of sugarcane from estimates of crop water use, by G. Kingston 201

MORNING SESSION — 11.30a.m.

CLOSING PLENARY SESSION
Chairman: A.W. Wood

(a) President’s medals
(b) Installation of new executive