

BOND AWARD NOMINATION

We nominate Philip Downie for the AGSA 2013 Bond Award.

Philip was educated at Longernong Agricultural College at Horsham Vic where he received a Diploma in Agricultural Science.

After graduation in 1974 he was employed as Agricultural Technical Officer at the Victoria Department of Agriculture Horsham working with Malcolm Archer who was the Senior Cereal Chemist. Philip was responsible for small-scale quality evaluation of Victorian wheat breeders' lines as well as developing and evaluating new tests for small samples. He was also responsible for large-scale evaluation of Victorian wheat breeders' lines and assessing and changing past practices where necessary. Philip also managed the cereal chemistry laboratory. It was during this time with Malcolm Archer that Philip co-authored three papers in the Australian Journal of Plant Physiology, in particular a paper with Malcolm Archer and Colin Wrigley that has been cited 89 times:

The Sulfur Content of Wheat Endosperm Proteins and Its Relevance to Grain Quality. CW Wrigley, DLD Cros, MJ Archer, PG Downie and CM Roxburgh. Australian Journal of Plant Physiology 7(6) 755 – 766, 1980

Philip is most often cited as co-editor, with Joe Panozzo, of the 1994 Ballarat Conference of the RACI Cereal Chemistry Division "Cereals 94".

1983–1989 Senior Cereal Chemist, Australian Wheat Board, Melbourne, Vic

Philip was responsible for variety release and classification. He represented the AWB on the various State Variety Evaluation and Release committees, altered the classification mechanism and returned control to AWB. He developed and introduced the use of control varieties as a more objective means of determining the classification of new varieties. With other AWB cereal chemists he initiated grower participation in seminars presenting on wheat quality topics. Also with others Philip was responsible for grade blending operations to meet market requirements. He modelled and operated the main frame program for the quality attributes side (receival standards) of grower payments.

Philip attended International market seminars, visits and surveys in countries including Iran, Malaysia, Thailand, Indonesia, Singapore, Japan, Peru, Sri Lanka, and USSR. Philip also designed a program to bring customer cereal chemists to visit with Australian cereal chemists and vice versa. With W.A. state cereal chemists and identified the need for, and developed the means of a noodle segregation in Western Australia to meet customer country requirements.

Philip improved communication between AWB and Australian wheat cereal chemists to ensure that information flow on international market quality requirements and developments was utilized. With other AWB quality specialists he initiated the evaluation of varietal samples by overseas customers for end product suitability. Philip was involved in maintaining and updating AWB receival standards, variety lists and the annual crop report. As an Australian Mentor he assisted in the development of a research project for a Korean Ph.D. student on "Environmental effects on noodle quality". Philip also organised a project to evaluate the nutrition value of sprouted wheat compared to sound wheat for chicken rations.

1989–2003 Perten Instruments of Australia P/L Melbourne, Vic

Perten Instruments Group manufactures and markets a wide range of grain/food testing equipment including at the time Falling Number, Glutomatic, laboratory mills, filter based NIR instruments (wholegrain and powder), diode array NIR and the Single Kernel Characterisation System. Perten Australia were also agents for Rationel Kornservice, a Danish company that manufactures and sells automated truck sampling systems, sample dividers and laboratory grain cleaners.

As Managing Director of Perten Australia, Philip was responsible for all day to day operations, sales, finance, accounts and service activities and for developing new products and directions for the international company, for which Philip served as a Board member of Perten Group for 18 months. As Team Leader he was responsible for developing and commercializing a new Perten NIR instrument.

Philip was also Involved (with Bob Cracknell and Tony Blakeney in 3 year Research project with AWB to develop Single Kernel measurement instrumentation by assessing various technologies either singularly or in combination.

2003 to date: Consulting

2003-2008: Philip provided consulting services to Nugrain on grain quality issues, in particular wheat quality and interacting with AWB on classification.

2003+: Agent for Pfeuffer GmbH, who manufacture and supply truck sampling, sample dividing and grain cleaning equipment. Beef farm development at Naroghid, Vic.

2009-2012: Philip was a Panel member for the Australian Wheat Variety Classification Panel (AWVCP), responsible for assessing breeders' lines for suitability to fit within the Australian classification system and also whether the current guidelines were as effective as they needed to be to maintain the integrity of the Australian Wheat Grades, advising breeders on outcomes of panel deliberations.

2012+: Philip is involved in Assessing data supplied by breeders to ensure compliance with the Classification Guidelines and preparing the data for printing into booklet form for the AWVCP members. Obtaining check data to

minimize in lab errors. Reviewing old varieties and presenting data to the AWVCP for re classification.

Voluntary Work in Cereal Science

Philip has been heavily involved in the Cereal Chemistry Learned Society since 1996, a record of 16 years service that few could match. His positions have included:

- Vice-Chairman RACI Cereal Chemistry Division 1996-1997
- Chairman RACI Cereal Chemistry Division 1998-1999
- Treasurer 2009, 2010, 2011, 2012 AGSA Cereal Chemistry Conferences.
- Treasurer 58th Cereal Chemistry Conference 2008, Treasurer AACCI Downunder Section 2000-2012, Treasurer AGSA (Australasian Grain Science Association) 2007-2012.
- Treasurer RACI Cereal Chemistry Division 2002-2006, and Co-Chair/Treasurer of the 2007 Cereal Chemistry Conference, Melbourne Victoria

Philip Downie is a worthy candidate for 2013 Bond award



A.B. (Tony) Blakeney
Immediate Past Chairman AGSA.
19th June 2013.



Mark Bason
Chairman AGSA
19th June 2013.