

JC Andrews Award – Chris Bloore

Our 2024 J C Andrews Award winner's career is distinguished by notable achievements, starting with his completion of a B.Sc. in Chemistry and a B.E. (Chemical Engineering Hons) from the University of Canterbury, New Zealand, followed by an MSc in Control Engineering from the University of Manchester, U.K., and a Ph.D. focusing on Spray drying from Massey University.

With a career spanning over five decades, he has amassed a wealth of experience and expertise. Initially, he served as a research chemical engineer at the NZ Dairy Research Institute for 19 years, followed by 32 years as a self-employed consultant. Throughout his career, he has been deeply engaged in training and educational initiatives across Australia, New Zealand, Europe, and the USA.

His early days at the NZ Dairy Research Institute in Palmerston North involved detailed research on spray drying with a focus on high pressure nozzle atomisation systems' design and performance.

He was also heavily involved in developing control algorithms for optimisation of the spray drying process. The sticky point and glass transition defining work on drying powders helped many New Zealand operators significantly improve drying performance.

The advent of multistage and integrated spray drying systems in the New Zealand Dairy Industry brought much complexity to operating performance of spray driers.

Cont. on next page



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Cont. from prev. page

The algorithms he developed for the control of these more complex drying systems were widely used by industry to manage these processes.

As an active member of the NZIFST, he has made significant contributions to both industry education and the nurturing of young talents. His commitment to education is evident from his extensive lecturing experience, notably as part of the Dairy Graduate Training Programme and at the University of Otago.

He is internationally recognised as a leading expert in spray drier design, with his expertise showcased in his seminal work on dust explosions. His contributions extend beyond academia, as he led the development of crucial safety measures, including blast doors and suppression systems, which have undoubtedly saved countless lives and prevented extensive equipment damage.

Even in retirement, he continues to be actively involved in global training initiatives. His consultancy work, alongside his engagements with Men's Shed and Rotary activities, speaks volumes of his dedication to community service.

In summary, his outstanding career, marked by ground-breaking contributions to his field and unwavering commitment to education and safety, is truly deserving of recognition and celebration. We wholeheartedly endorse him for this esteemed award.



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