Communications

Australian Academy of Science Fellows

Seventeen of Australia's leading scientists were honoured on 24 March by election to the Australian Academy of Science[1]. Among the new fellows are two members of the Australian Mathematical Society, Vladimir Bazhanov (The Australian National University) and Jonathan Borwein (University of Newcastle).

Professor Vladimir Victorovich Bazhanov FAA 'distinguished for his work on theoretical physics in the field of solvable models in statistical mechanics and field theory'.

Vladimir Bazhanov is a professor of theoretical physics in the Research School of Physics and Engineering and the Mathematical Sciences Institute at the Australian National University. He obtained an MSc in Physics in 1974 from the Moscow State University and, in 1979, a PhD in Theoretical and Mathematical Physics from the Institute for High Energy Physics (IHEP), Protvino — Russia's largest particle accelerator centre. He continued to work at the IHEP as a senior research scientist specialising in quantum electrodynamics, quantum field theory and statistical mechanics. In 1990 he moved to Australia and joined the School of Mathematical Sciences and later, the Research School of Physics and Engineering at the ANU. He was Head of Department of Theoretical Physics at the ANU from 2001 to 2005 and held numerous visiting professor positions at overseas universities. He has made pioneering contributions in the field of exactly solvable models of quantum field theory and statistical mechanics.

Professor Jonathan Michael Borwein FAA 'distinguished for his work in experimental mathematics in a number of disciplines including optimisation, number theory and computation theory.'

Jonathan Borwein is Laureate Professor in the School of Mathematical and Physical Sciences at the University of Newcastle. He directs the Priority Research Centre for Computer Assisted Research Mathematics and its Applications (CARMA). Earlier awards include an honorary degree from Limoges (1999), and Fellowships of the Royal

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[1]See www.science.org.au/news/media/25march2010.html

Society of Canada (1994) and the American Association for the Advancement of Science (2002). He has previously worked at Waterloo, Simon Fraser, Dalhousie and Carnegie-Mellon Universities. Jon is recognised as a leading expert in optimisation theory and experimental mathematics, and has done breakthrough research in computational number theory. Highly regarded as a spoken and written expositor, Jon's interests span pure mathematics (classical and functional analysis), applied mathematics (optimisation and nonlinear analysis), computational mathematics (numerical and computational analysis), and high-performance computing. He has authored 350 research articles and a dozen books (recently several on Experimental Mathematics, on Variational Analysis, and Convex Functions).