

SINGAPORE YOUTH AWARDS 2003

SCIENCE AND TECHNOLOGY (INDIVIDUAL)

DR CHAN HENG HUAT



“Learning and thinking are closely related. One cannot do without the other”



Dr Chan has gained international recognition for his contributions in number theory. The recipient of the coveted Young Scientist Award conferred by the Singapore National Academy of Science in 1999, Dr Chan proved several missing mathematical theorems in the work of the late Indian mathematical genius, Srinivasa Ramanujan. Using one of these theorems, Dr Chan and Professor Bruce C. Berndt obtained a series which yields a record number of 73 or 74 decimal places of π per term. Dr Chan's other key research achievements include

finding new formulae for the number of representations of integers as a sum of even squares and developing new theories of elliptic functions to alternative bases.

Dr Chan secured two research grants from the National University of Singapore in 1998 and 2000. He was also a recipient of the National Science Foundation Research Grant (USA) in 1995, and the National Science Foundation Research Award and Grant (Taiwan) in 1997. Dr Chan went on to receive the Commonwealth Fellowship awarded by the Association of Commonwealth Universities in 2001.



Since 1995, Dr Chan's works have appeared in prestigious mathematical journals. He is widely sought after by top international journals to review and referee articles.

Dr Chan was an invited speaker in several international conferences and seminars. One of his most recent talks is a twin lecture with renowned French mathematician Professor Jean-Pierre Serre at the University of Paris VI in 2002.



A firm believer in developing youths to excel in their areas of strength and interests, Dr Chan introduces mathematics to youths by giving public lectures in junior colleges. He also writes for a local magazine to promote mathematics to secondary and junior college students.

For his outstanding contributions in the research on number theory, and his efforts in promoting mathematics, Dr Chan Heng Huat is conferred the Singapore Youth Award 2003.