

SINGAPORE YOUTH AWARDS 2008
SCIENCE AND TECHNOLOGY (INDIVIDUAL)

DR NG HOW YONG



“Aim high, plan prudently and confidently to excel and contribute positively to Science and Technology in Singapore! This can only be achieved with integrity, sincerity and blessing.”

Dr Ng How Yong is well regarded for his research in membrane technology for water reuse and desalination, and alternative processes to produce energy from wastewater. His research findings have been widely recognised, evident by the invitations to speak at numerous international symposiums and conferences. In 2006, he was the winner of the Young Professionals Award conferred by the International Water Association, and in 2007, he was awarded the Singapore Young Scientist Award by the Singapore National Academy of Science.

Dr Ng is currently Principal Investigator for 13 research grants and Co-Principal Investigator for another two grants. Amounting to S\$5 million, these grants are used for investigating factors that contribute to membrane fouling and reduction in fouling, and for developing novel technologies for water reuse and energy production from wastewater.



In 2007 and 2008, Dr Ng filed three patents in the United States. For his research achievements in microbial fuel cell technology for clean alternative energy production and membrane technology, Dr Ng has been

featured in various media. He has also been invited to be the Associate Editor for Water Research, a top international journal in the field of Water Science and Technology.

A firm believer in engaging young people in laboratory work, Dr Ng initiated a Research Attachment Programme with Meridian Junior College in 2004.



In the same year, he was also advisor to an undergraduate study group working with a local NGO on a trip to Bangalore, India to promote water-safety awareness. Dr Ng has also served as supervisors to secondary school students working on research projects in his laboratory. To date, he has mentored six Research Fellows, eight PhD students and six Masters students.

For his scientific excellence and consistent dedication to youths, Dr Ng How Yong is conferred the Singapore Youth Award 2008.