Nanyang Polytechnic has won a merit award in the Asean Outstanding Engineering Achievement Award 1998 for the development of a customised precision titanium mesh for a cranioplasty surgery performed by Tan Tock Seng Hospital on a patient suffering from brain haemorrhage early this year. This Asean award is meant to confer recognition to outstanding engineering achievements that make significant contributions to engineering progress and the quality of life in Asean countries.

Commenting on NYP's contribution, Dr Yeo Tseng Tsai, Consultant Neurosurgeon from Tan Tock Seng Hospital, said: "This 'perfect' computer-derived cranioplasty is certainly the way to go in the future and the cosmetic results are far more superior than those produced by all other techniques currently available."

"A model of the skull with the defect area is digitally reconstructed. The core and cavity master forming tools are designed using CAD/CAE technology."

"The forming tools which are manufactured from the rapid prototyping process are then used to form the titanium mesh for a perfect fit."