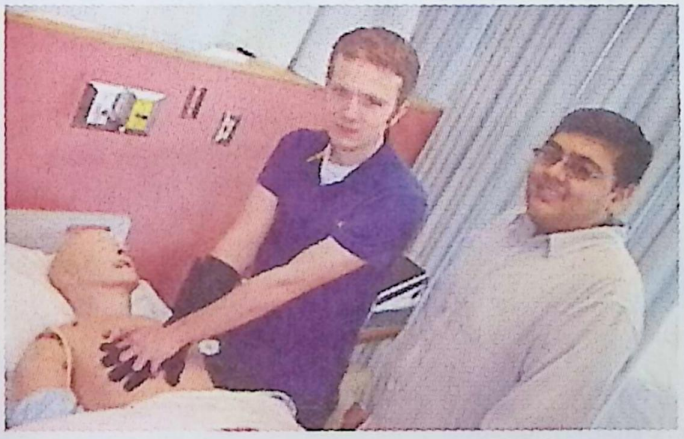
Engineering students develop life-saving CPR Glove

Two engineering students from McMaster University have invented what they believe is the solution: the CPR Glove. The black, one-size-fits-all CPR Glove features a series of sensors and chips that measure the frequency and depth of compressions being administered during CPR and outputs the data to a digital display. To be effective, compressions must be given at the rate of 100 per minute and at a depth of four to five centimetres. A study measuring retention of CPR training published in the Journal of the American Medical Association showed that 59 per cent of the time, compressions were applied at the rate of only 80 per minute. Thirty-seven per cent of the time, the compressions were too shallow. CPR administered at these levels is not likely to save a person in cardiac arrest.

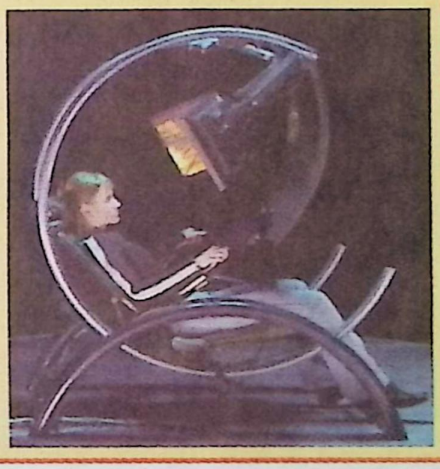


The two students started working on the concept in September 2006 and developed a number of prototypes, bringing the size of components down each time. They wrote the programmes and hand-fabricated the button-size computer chips that operate the glove. They even designed the pattern for the glove but turned to a professional seamstress to recommend fabric and stitch the glove together. "We see the glove being available as part of any standard first-aid package," explains Nilesh Patel, also a fourth-year electrical and biomedical engineering student at McMaster. "It is also ideal for CPR training and refresher courses. It would be easy to afford since the components are readily available and relatively inexpensive."

Source: Wired and Gizmodo.com

Gravitonus Workstation Gets Disabled-Friendly Add-on

The Gravitonus is one hell of a workstation that keeps the user in the most ergonomically optimized position at all times. This workstation is now being adapted for quadriplegics with the addition of ACCS, or alternative computer control system. Basically, a control unit is placed in the mouth that does all of the work and still allows for breathing, drinking, talking, smoking, etc. The addition for ACCS for the paralysed is definitely a plus, but I'm still amazed with the actual workstation.



Vibrating Shoes Give Your Feet a Treat

They say your feet are the most ignored part of your body. Well, a company by the name of Good Vibrations is planning on changing that. They've created a show with a built-in massager that soothes your aching feet with the press of a button. You can choose when you want the massaging to begin and there's even a rechargeable battery, but personally, I don't think I'd want to leave my house with a shoe that buzzes when I walk.





Compiled by **IMRAN H. KHAN**