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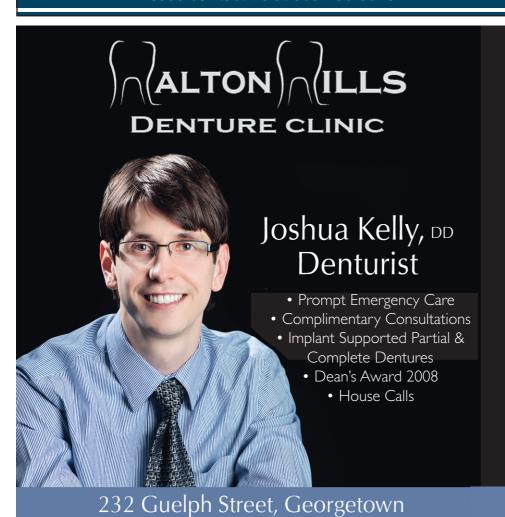
68 Main St. N. - MOORE PARK PLAZA 905-873-0176 HOURS: Mon-Fri: 10-6, Sat 10-8

Karmy Chronic Pain Medical Clinic

We are an OHIP covered Medical Doctor supervised treatment centre that provides care for patients who suffer chronic non-malignant pain from headaches, neck pain, shoulder pain, back pain and fibromyalgia.

We have offices in Brampton, Mississauga and North York Monday to Friday 9:00 am to 5:00 pm

Our friendly staff would be happy to speak with you. Please contact us at 905-456-6816



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Georgetown Legion donates to hospital

Georgetown Legion President Jack Harrison and Poppy Chair Marion Carney presented a \$2,000 cheque to K.C. Carruthers, Executive Director of the Georgetown Hospital Foundation at a recent Legion meeting.

> Photo by Lynn McPherson

3D printing opens up possibilities

I have been a fan of science fiction stories since I was a child. I was indoctrinated by my mother into the Star Trek universe. The draw was a deep yearning to see a world where war and poverty were "old" problems, solved long ago. Another fascination was the futuristic technologies that humankind would have at their disposal.

Well, the future is now! Arthur C. Clarke, author of 2001 A Space Odyssey, predicted the use of satellites back in the 1940s. Gene Roddenberry's Star Trek unveiled many technologies like personal communicators, today's cell phones, disk storage for computer output, medical scanners, today's MRI's and replicators, a device that could make anything you needed. This latter technology is fact. We call them 3D printers.

In use since the 1980s in the manufacturing process, this technology, by extending its usefulness and expanding markets has seen it become affordable to most people. We can use it in our homes, just like computers. Once highly expensive and bulky, they are now ubiquitous and can fit in our hand.

The ability to reproduce items from a model using materials such as plastics, metals and wood, will revolutionize society. It already is. There are Andrew **Tutty**



processes now available through 3D printing technology to make prosthetics of any description more cheaply than traditional manufacturing methods. This includes prosthetic limbs, facial reconstruction elements including eyes. Each eye can take 10 weeks to produce costing thousands. Now, 150 can be made in one hour with five irises being customized in the same timeframe for \$100. Prosthetic limbs for Third World or war-ravaged countries will be common place.

3D printers are being used in architecture, construction, design, automotive, aerospace, military, and engineering, but its ability to produce human tissue replacement is most exciting. Ah, have a heart! No problem! Done!

> Andrew Tutty is a member of the Halton Hills Accessibility Advisory Committee

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