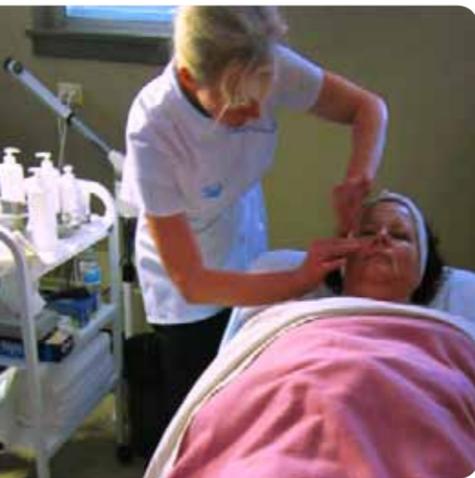


# Career and Technology Centre

## spa-ing at the CTC

Everyone is very excited about the new Aesthetic-Spa area opening soon to complement the Hairstyling Program at the CTC. Students participated in the Infection Control seminar that Monica Wartenburg facilitated on September 12, 2011. Students received a Certificate for Basic Infection Control which they will add to their résumé. The personal service industry has stringent guidelines for infection control for public safety and individuals performing services. We take pride that students at the CTC have the latest education on Infection Control, and they benefit from the expertise of industry professionals who support our program.

We are very excited to have chosen the Thalgo Salon and Spa products and treatments to be used in Aesthetic-Spa. Thalgo Salon and Spa products are renowned for their



dramatic effects to revitalize, detoxify, firm, and improve general well-being. Monica Wartenburg, the Thalgo educator, facilitated a one-day seminar and demonstrated facials we will be offering at the CTC. We will also carry home maintenance products for guests to purchase once they have experienced one

of our facials/treatments, or had a personal consultation.

Thalgo Skin facial range caters to all skin types: sensitive, dehydrated, combination, dry, oily/blemished and mature/anti-wrinkle firming.



"The name Thalgo is actually a melding of the French and Greek language and means 'the richness of the sea and marine algae.' Thalgo products and treatments draw their richness from the ocean's natural resources—wondrous elements from the sea

such as algae, which is the basis of marine spa treatments. Thalgo was founded in France over 40 years ago, is in 90 countries and is a worldwide recognized brand.

Every professional Thalgo beauty product incorporates the purest natural ingredients from marine or plant origin." (product information from Thalgo www.thalgo.com)

We are excited to use and carry the Gehwol foot care line from Germany, as well as our new pedicure units. We trust Gehwol products to keep feet clean, soft and beautiful. Plant-based substances are the basis of these products and guarantee soft and gentle care for sensitive skin.

"Gehwol has been around since 1898 and has perfected their foot care products: preparations are made from natural herbs and essential oils and we love them. Gehwol takes care of challenges such as:

- Diabetes—foot problems can have serious consequences for individuals with diabetes. The majority of the products that can be used by diabetics without restrictions are marked with a D.
- Foot odor—Gehwol deodorizes and prevents foot odor.
- Dry skin—dry skin can start to itch and scale, becoming uncomfortable and embarrassing. Compensating lipids and intensive moisture can keep the skin flexible and protect it against further dehydration.
- Callused/cracked skin—skin becomes smooth and flexible with Gehwol.
- Athlete's foot—the foot must be treated as soon as it is affected. There are products that can effectively protect you from athlete's foot.
- Sweaty feet—when feet sweat excessively, the skin loses its protection and becomes scabby. Deodorizing products can regulate and strengthen the skin, which allows the foot to stay dry and the skin nourished.
- Burning feet—often occurs when the feet are strained, especially during dry and hot months. Products refresh burning feet effectively and act as a preventative when temperatures rise again.
- Cold feet—insufficient blood circulation results in cold feet. Products enhance circulation and warm the feet.
- Heavy-tired feet—medicinal herbal extracts in Gehwol products revitalizes and strengthens legs, prevents skin discoloration and gently nourishes skin.
- Tired, sore feet—revitalizes, refreshes and invigorates tired feet." (product info from Gehwol www.gehwol.com)

unless otherwise stated, all text and photos are courtesy of Jaeger G. and CTC staff  
this issue edited by Mark Schwandt, designed by Kathryn Smith



## | winter newsletter |

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"Join us for opportunities to achieve industry recognized credentials with access to industry standard facilities and related professional staff."  
—Mark Anderson, CTC Administrator

For more information visit  
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## designing and "printing" an iPod case

by Moriah R., CTC student

I have a first generation iPod Touch®, so I find it almost impossible to find cases for my iPod because all the stores only carry cases to fit the later models. The design process unit in the Pre-Engineering program offered the perfect opportunity for me to make my own case.

To manufacture the case, I used a "3D" printer. The one we have at the CTC is made by uPrint®. This type of printer creates objects from the drawings we make using an "additive sculpture" process, which basically means the printer keeps adding layers of plastic to make your piece. The design software we use for this is Autodesk® Inventor®, which allows us to create 3D designs.

The difficulties I ran into while designing the case were trying to figure out how I would fit the top and bottom pieces of the case together, having the case properly fit the curved parts of the iPod, and designing something that would work well with the plastic of the 3D printer. We always do a prototype as part of the design process, and I decided to not put a latch on my final design after the prototype latch didn't work the way I wanted it to. Designing the case took a lot of time and effort, but it was something I had a lot of fun doing. I liked the fact that by designing an iPod case I can take it home and use it in real life, not just in the classroom.



learning | as unique | as every student



## first CTC auto body student to challenge 1<sup>st</sup> year apprenticeship technical exams

A primary focus at the Career and Technology Centre (CTC) is helping students achieve a credential in registered trades such as Auto Body Technician. Currently, we are working with Alberta Education and Alberta Apprenticeship and Industry Training (AIT) to streamline a process whereby students studying Auto Body in the CBE's Career and Technology Studies (CTS) program can challenge the 1<sup>st</sup> year AIT apprenticeship technical exam, typically done after high school and after attending a month-long college training program. This curriculum development is ongoing, and for the first time at this centre we will have a student, Brandon W., prepare to challenge the AIT theory exam this January, with the goal of receiving advanced standing in the trade.

Brandon W. started taking Auto Body courses at the CTC last year (2010-2011). He discovered he was interested in the trade, and pursued a work experience station through Central Memorial High School's Work Experience coordinator, Mr. Arbuckle. This semester Brandon is working mornings in an auto body shop and has been signed on as a 1<sup>st</sup> year apprentice. This means he has his "blue book", which is huge because in this book are recorded all his hours and yearly progress reports. To prepare for his exam with AIT, Brandon will be using newly developed online course materials at the CTC to study and practice. We will all be watching his progress closely when he begins exam preparations December 12<sup>th</sup>, and hope to see many more interested students follow in this stream of apprenticeship and pre-apprenticeship studies in the future.



## even more journeymen in the shop

The welding department (Angie O'Brien, Mark Schwandt, Jay-R Medrano) is absolutely thrilled to welcome Ken Braun to the CTC as a student teacher. Ken is with us for a five week placement from the University of Alberta. Ken brings 30+ years of welding experience and recent welding instruction experience with SAIT. Ken is working with our pre-apprentice students and on the development of the entire welding program delivery model. We are lucky to have Ken's expertise and enthusiasm.



CTC Open House, Welding Suite

## welding is winning

November has been an exciting month in Welding (Fabrication)! State-of-the-art, cutting-edge practical and theoretical program delivery is now happening. November 24<sup>th</sup> saw our pre-apprenticeship students complete their SMAW (shielded metal arc welding) "in-house" practical exam. This was a key step in preparing them for the Alberta Apprenticeship and Industry Training (AIT) 1<sup>st</sup> year practical welding examination, currently scheduled for December 21<sup>st</sup> at the AIT testing site in Calgary.

External evaluators were brought in to replicate the future test environment. Jonathan Allard, B

Pressure Welder, Stéphan Deloof, Journeyman Welder from St. Mary's High School, and Conrad Parent, B Pressure Welder and Level 3 Welding Inspector from ATCO Gas, donated their time and expertise to evaluate the students' 1G, 2F and 3F test welds.

That same night was the grade nine open house for prospective students and their parents. The combination of the practical welding exam and open house had all of our welders, most of their parents, a bunch of grade nine students, our external evaluators and the entire staff celebrating our program's opening. Well worth the wait!



## pre-engineering trip to SAIT

In October, the CTC's pre-engineering students were invited to SAIT to participate in an afternoon of exploration in the Mechatronics Lab under the guidance of Craig Maynard (SAIT) and Robert White (SAIT). Students worked through five different introductory activities which involved reading power and ladder diagrams and building the corresponding exercises on industry-standard training boards. They focussed on systems of pneumatics, electrical or a combination of both. Everyone's favourite activity was learning to move and program a robotic arm. We would like to give a special thank-you to Craig, Robert and their helpers for making the afternoon a terrific learning experience and an exciting introduction to the world of mechatronics.



Brendan B. (left) & Moriah R. (right)

## seismic in motion 2011 field trip

by Moriah R., CTC student

Seismic in Motion is a field trip that happens every October to allow people to experience the seismic industry firsthand. This trip was an extremely good learning opportunity for me due to my interest in geology or geophysics. Previous to the trip, I had been considering a future in geology or geophysics, and being able to see what actually happens in the field, as well as talk to people working in these careers, really helped contribute to my decision to pursue both geology and geophysics in university. I liked that the people there spoke to us about a wide variety of careers and seemed very passionate about their jobs.



photo courtesy of Erin Bennett