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in the news



Dr. Paul Healy, director of Trent University's Archaeological Research Centre, appeared in a front page photo in the July 10 edition of the *Belize Times*. Prof. Healy was featured in the photo with Belizean Prime Minister Said Musa, Yasser Musa, Minister of Education and Culture Francisco Fonseca, Dr. Jaime Awe of the Belize Institute of Archaeology and Dr. John Morris.

Dr. Davide Panagia, was profiled in two articles while he was completing research in Italy this summer. An article in the May 6 edition of *La Provincia* announced the public lecture Prof. Panagia gave in Casalmaggiore, Italy. The second article appeared in *La Cronaca di Cremona* on May 31.

The magazine *Better Farming* featured Dr. Tom Hutchinson in its June/July issue in an article on teaching sustainable agriculture.

CHEX Television aired a story on the completion of Trent Athletics' artificial turf and newly paved track on August 12.

Dr. Holger Hintelmann, Chair of the Chemistry Department, was a source for articles in the *Toronto Star* and *The Peterborough Examiner* on August 11. Dr. Hintelmann was quoted on the properties of TNT.



The DNA Building construction kick-off event was featured in an article in the *Daily Commercial News and Construction Record*.



Prof. Laura Summerfeldt

DR. LAURA SUMMERFELDT is building a new model for diagnosing and treating obsessive-compulsive disorder (OCD) and her research is taking her well beyond the bounds of Trent, involving two hospitals and three other universities.

The Trent University associate professor in psychology is working on redefining the way psychiatrists and psychologists view OCD.

OCD, a mental illness that affects about 2.5 per cent of the population, involves thoughts or preoccupations that pop into the mind, beyond the control of the sufferer. There is a feeling of being driven to behave in a certain way and, until that behaviour is complete, the OCD sufferer has a feeling of distress or anxiety.

OCD manifestations may include excessive cleaning or washing, the ritualization of everyday tasks or the repeated checking of textures by touching or tapping.

According to Prof. Summerfeldt, although there is clear evidence that OCD has a neurobiological basis, mainstream psychological theories dispute this and see it as an acquired anxiety-based pattern of thought and behaviour, grouped in with phobias and panic disorder.

However, many people with OCD have symptoms that just don't fit a "phobia-like" profile. Prof. Summerfeldt has found OCD often results when an individual is driven by a need to correct feelings of incompleteness and dissatisfaction, so that everyday experiences achieve what is perceived to be a flawless and perfect state.

In other words, the feeling of incompleteness appears to be the result of a failure in the internal signal that terminates open-ended behaviours by producing a subjective "feeling of knowing" – an emotional state that lets one know when something is satisfactorily completed.

The late Dr. Graham Reed, her professor and mentor, first introduced Prof. Summerfeldt to the idea of obsessional incompleteness while she studied as an undergraduate student at Glendon College. Prof. Reed's "pet peeve" was the definition of OCD as an anxiety disorder, she said.

Instead of identifying someone as either having OCD or not at all, Prof. Summerfeldt's findings show obsessive-compulsive experiences can exist at varying levels in all people.

feelings of "incompleteness"

A Different Look at Obsessive-Compulsive Disorder

"It's a continuous way of looking at human nature," she said. "I try to find out the underlying characteristics that feed into OCD, but are present in all of us to some degree. When you look at it that way you find that in OCD, you see an extreme and tormenting version of the common human feeling that things aren't 'just right'."

This coincides with the thought that the anxiety OCD sufferers feel is caused by sensory perfectionism – a heightened awareness of their surroundings.

"It's almost as if some internal signal is misfiring," says Prof. Summerfeldt. "OCD sufferers constantly have to adjust to their surroundings. If you have a chronic feeling of things being out of place, you set things in place to quell that feeling. You need to do that to function."

Changing the definition of OCD is changing the way it is treated. Currently OCD sufferers undergo cognitive and behaviour modification, modeled after treatments used for anxiety disorders. Under Prof. Summerfeldt's model, this would be adjusted from a reactionary treatment to a proactive

is examining the co-occurrence of other disorders, such as Tourette's or Anorexia, in those with OCD.

She is also collaborating on a study for the Centre for Addiction and Mental Health at the University of Toronto, researching familial patterns and whether characteristics of OCD sufferers co-occur in their family members.

Within another study at Queen's University, she is researching OCD characteristics in family members of children with Autistic Spectrum Disorders.

Prof. Summerfeldt has presented her research around the world. She published her article "Understanding and Treating Incompleteness in Obsessive-Compulsive Disorder" in 2004 and is co-editing a book on OCD due out next year. Several manuscripts from the incompleteness database are currently in the works.

After completing her B.A. at Glendon College, Prof. Summerfeldt received her M.A. and Ph.D. in Psychology from York University. She came to Trent in 2000 as an assistant professor and was promoted to associate professor in 2004.

OCD is a mental illness that affects about 2.5 per cent of the population, involves thoughts or preoccupations that pop into the mind, beyond the control of the sufferer.

one – helping those with OCD recognize the signs of their dissatisfaction and treating it accordingly.

Prof. Summerfeldt recently received a Social Sciences and Humanities Research Council of Canada (SSHRC) grant, which has helped to fund her work in incompleteness. She is currently involved in a long-term study at the Anxiety Treatment and Research Centre at St. Joseph's Hospital in Hamilton. This study

Prof. Summerfeldt ensures her students get hands-on practical experience thanks to the influence of her mentor Prof. Reed.

"All of my undergraduate and graduate students are actively involved in research," she said. "Part of the reason I developed into this area of work was because I did my B.A. at a campus just like Trent, where there was an opportunity to work closely with faculty members. It has influenced my approach with my own students." ☺

crediting students for their work and life experience

IT WAS A conversation with Trent University President Bonnie Patterson that inspired Brent Stonefish's interest in an Ed.D.

"She said to me, 'Find a program that meets what you want.'"

At the time Mr. Stonefish was working as a counsellor and was teaching part-time. He is a Trent alumnus, graduating in 1998 from the Native Studies program.

"I decided I wanted to teach at the university level but I wanted to get into a program that would allow me to do more than just teach."

Now Mr. Stonefish is well on his way to completing his Ed.D. in Educational Administration in the Department of Theory and Policy Studies at the Ontario Institute for Studies in Education at the University of Toronto. He worked through the summer in the Registrar's Office, researching the feasibility of introducing a prior learning assessment (PLA) and recognition program at Trent University.

PLA is finding ways to give students university credit for their life and work experiences.

For example, this would include how a police officer's education and experience would be recognized if he or she were applying to enter the Forensic Science program at Trent.

Mr. Stonefish, who wrapped up his work on Aug. 26, has written a recommendation report for the Registrar's Office.

Trent is on the leading edge in developing a prior learning assessment system.

In it, he has suggested hiring someone to draft policies and procedures for PLA and implement the program at Trent.

The introduction of PLA programs at Trent will take some time to complete.

"It would have to be a gradual implementation – structured, with the criteria clearly defined," he said.

Susan Salusbury, Registrar, says Trent is on the leading edge in developing a PLA system.

"By developing a PLA credit system and implementing it, it is a good way to recognize

students who want to come to university. This allows them to get in and get some credit for their work and life experiences. These students have done a considerable amount of learning and some of it is quite relevant to what's happening at the university," she said.

During his time in the Registrar's Office, Mr. Stonefish also completed a scholarship review.

"We're competing constantly with other universities to retain students," he said. Part of his research included comparing Trent's domestic scholarships with other universities and looking at ways to improve Trent's existing scholarship program.

Mr. Stonefish is part of the Lenape Nation from Moraviantown in Southwestern Ontario. He received his Master in Environmental Studies (MES) degree from York University in 2001.

Mr. Stonefish is also juggling his Ed.D. studies with being a new father.

"My driving force is support from my wife Robin, and the fact that I'm doing something to better myself for my daughter, Hannah. I'm creating something better for her." ☺



Brent Stonefish

food safety and southeast asian shrimp farming



Dr. Derek Hall

DR. DEREK HALL spent his summer as a visiting scholar in Japan, studying the effects of Japan's policies on food traceability, particularly in the area of shrimp farming.

Japan has recently had a number of tainted food scandals. To quell public fears about food safety, the government and corporations are experimenting with traceability systems for

domestic food, explained Prof. Hall.

A wide variety of techniques, including through cell phones, now allows consumers to access extensive information about how their food was grown. In line with this, Japan's importers are moving toward importing shrimp from more vertically integrated companies – businesses that grow, harvest, package and ship food.

"They want to buy from companies that are involved in the entire production chain, so that they know exactly how the shrimp were grown" he said.

This is having an effect on aquaculture in Southeast Asia, as Japan imports a large amount of shrimp. Smaller-scale shrimp farmers will likely struggle in the face of Japanese demands for vertical integration.

Prof. Hall, an assistant professor with the International Development Studies Program and the Political Studies department, recently returned from the Institute of Social Sciences at the

University of Tokyo where he spent three months this summer.

Prof. Hall will write up his findings as a chapter for a book entitled *Radical Aquaculture*, due out next year.

He will continue to develop his research as a participant in a Major Collaborative Research Initiative (MCRI) titled Challenges of the Agrarian Transition in Southeast Asia. More than 20 other scholars from universities across Canada and around the world are contributing to this MCRI.

As part of this MCRI, Prof. Hall also will research land property rights in Asia by studying trends there throughout the last 200 years. He has received a Social Sciences and Humanities Research Council of Canada grant to further his research in this area.

"It's a big, historical, comparative study," he said. "I'm trying to answer the questions: to what extent do people in Asia today need to compete in the

market-place to get access to land and to what extent does Asia have fully capitalist legal systems with respect to land rights."

Prof. Hall is also currently studying how global development norms interact with Japanese ideas about development cooperation in the field of environmental aid.

He will present his findings at a workshop in Japan in February and also will be writing an article for an edited book on transnationalism and Japanese foreign aid.

Prof. Hall received his Ph.D. in Government from Cornell University in 2002. He said he has always had an interest in Southeast Asia.

"It's a combination of cultural interests, philosophical interests and the diversity of Southeast Asia's political economy. It's a fascinating region." ☺

30 years of archaeological discovery in Belize

DR. PAUL HEALY, Director of Trent University's Archaeological Research Centre, received a warm welcome in Belize this summer thanks to nearly three decades of researching and excavating Mayan ruins in this Central American country.

While there, Prof. Healy visited sites he had excavated 30 years ago. Since then, Belize has restored and reconstructed these sites for tourists.

"At the time, we would build thatch-roof huts to live in while we were excavating and we would have to build roads into the site. Now there are small museums on site and paved highways to the sites. It's extraordinary to see the changes that have occurred."

At many of these small museums, the displays include information on the contribution of Prof. Healy and Trent University. Prof. Healy and his colleagues from Trent have brought "dozens" of students to excavation sites in Belize over the years.

In the 1990s, under the guidance of Prof. Healy, Trent archaeology students carried out four major, multi-year projects. The group excavated two large Maya cities looking for Preclassic Period remains and found



villages with the earliest radio carbon dates of anywhere in the Mayan world.

"We knew 30 years ago the potential for tourist development but you need to know about the site before you bring the tourists in. Over the years, Trent students have trained the caretakers and guides about the sites. I am proud and pleased Trent played a part in helping to develop this," he said.

"Belize now knows a lot more about its history. Many Belizeans are astounded to see artefacts from their country

dating from 800 BC. It gives them a sense of national pride."

The Belize Institute of Archaeology invited Prof. Healy, former Chair of Trent's Anthropology Department and former Dean of Research and

"Trent students have trained the caretakers and guides about the sites. I am proud and pleased Trent played a part in helping to develop this." –Prof. Paul Healy

Graduate Studies, to be the guest speaker at its third annual Belize Archaeology Symposium, held July 6-8 in San Ignacio Town.

The symposium attracts leading specialists in Maya archaeology to Belize. These specialists include scholars and graduate students who give presentations on the latest archaeological research and theories about this Pre-Columbian civilization. Dr. Gyles Iannone, also from Trent's Department of Anthropology and a former graduate student of Prof. Healy, delivered a paper on his recent investigations at the Maya site of Minanha, Belize.

Prof. Healy, the keynote speaker, addressed the rise of Maya civilization during the Preclassic period (about 1200 B.C. to 250 A.D.).

Much of Prof. Healy's research has revolved around this Formative period in Maya history, which saw the civilization develop from a nomadic family unit to a state-level society with sophisticated writing and calendar systems.

"The symposium is useful because archaeologists can come together and compare notes. This helps to reconstruct what

UPCOMING EVENTS

September 15: Political Studies Book Launch in the Champlain College Senior Common Room from 5-7 p.m. Cash bar and nibbles. For more information, please visit <http://www.trentu.ca/politics/news.html>

September 22-25: Third Symposium of the International Consortium on Anti-Virals (ICAV). For more information, please visit www.icav-citav.ca

October 1: Head of the Trent. For more information, please visit <http://www.trentu.ca/alumni/headofthetrent.html>

October 5 & 6: Writers Reading Series. For more information, please visit <http://www.trentu.ca/academic/english/> ☺

societies were like and you begin to see patterns," he explained.

Prof. Healy hopes to publish the results of 30 years of excavations. He already has a number of works published on topics related to ancient Maya trade, religion, agriculture, diet and subsistence, ceremonial architecture, warfare, monuments and writing. More information is available on his web site at www.trentu.ca/anthropology/phealy.html ☺

Nursing student Adam Henley excited about opportunities at Trent

FIRST-YEAR NURSING student Adam Henley has always set goals for himself.

"For me, I always have a vision. I always felt I wasn't motivated unless I had clear idea of what I wanted to do. I need to see where I'm going so I can gravitate toward that," he said. "It's important to have that vision – it ensures I'm active and work hard in school."

His philosophy on goal-setting – combined with his compassion, book smarts and hard work – have landed him where he is today and will continue to help him toward his dreams of one-day becoming a specialist physician, Rhodes Scholar and a Doctors Without Borders volunteer.

Mr. Henley, from Cochrane, Ontario will be coming to Trent this year with a bevy of scholarships totalling more than \$53,000. Included among those are Trent University special admissions and nursing scholarships. He has also received a Friends of Cochrane Scholarship and a Millennium Scholarship.

scholarship winner aiming high

Through his various volunteer positions and social activism, Mr. Henley has always made a point of giving back to his community.

"I usually get involved if I see something that doesn't seem right," he explained. He has volunteered on the Community Offering Police Support (COPS) committee, served as a youth counsellor and mentor at the Meequam Youth Residence and served as student trustee on the Ontario Northeast District School Board. Mr. Henley has been a youth volunteer coordinator and restorative care volunteer at the Villa Minto Nursing Home in Cochrane.

"I usually get involved if I see something that doesn't seem right," says scholarship winner Adam Henley

"I've learned so much about nursing from my time at the nursing home," he said. "Volunteering is a great learning experience – it has stimulated my thirst for knowledge."

That passion for learning began at an early age for Mr. Henley.

"It comes from experience," he explained. Mr. Henley grew up more interested in books than television and video games. "I was always creative and I found different ways to occupy my time. I read a lot and gradually became more interested in scientific subjects than fiction," he said.

Through his social justice work, Mr. Henley was introduced

to journalism, writing for both the *Cochrane Times-Post* and the *Timmins Daily Press*.

But his real passion remains in the area of health sciences. As a child, his family physician gave him a copy of Dr. Netter's *Atlas of Human Anatomy*. He still refers to the book to this day.

Mr. Henley said he hopes to one day specialize in the area of microbiology and immunology. For now, he is looking forward to his time at Trent.

"I'm definitely excited. I feel it holds a lot of opportunity for me." ☺



Left to right: Allan Barnfield, Assistant Registrar; Susan Salusbury, Registrar; Adam Henley, scholarship winner; Shelley Henley, Adam's mother; Dauna Crooks, director of the Trent/Fleming School of Nursing; Spencer Harrison, Enrolment Management Assistant.

Kick-off Event Celebrates Beginning of Construction of the New DNA Building at Trent

Faculty, students and staff from Trent University joined with representatives of three levels of government today to celebrate the beginning of the construction of Trent's new DNA Building.

The first module in phase one of the project will provide a new home for faculty from the Biology and Trent-Fleming DNA Forensics programs. Also housed in the building will be additional faculty from Anthropology and Nursing, researchers with the Ontario Ministry of Natural Resources currently working at the Trent campus and staff from the Peterborough Region DNA Cluster office.

The DNA Building is a state-of-the-art teaching and research facility that is interdisciplinary in focus. The first building module is part of a longer-term vision that will see a regional research and technology park anchored on Trent University's endowment lands.

Economic Development and Trade, noted, "The DNA Cluster is part of a new frontier which will ensure Peterborough's future economic growth."

Bill Juby, Deputy Mayor, emphasized, "This is a great, win-win partnership. The City of Peterborough is pleased to participate with Trent University on this endeavour that will benefit our community immensely."

Paul Wilson, Chair of the DNA Wildlife Forensics Program and Associate Professor, said, "Housing the Trent-Fleming Forensic Degree Program within this research environment will expose the students to state-of-the-art protocols, facilities and equipment on par with the leading forensic laboratories and in excess of many other private and public sector operations."

For more information on the DNA Building, please visit www.trentu.ca/dnacluster



Left to right: MPP Jeff Leal; MPP Tony Wong, Parliamentary Assistant to the Minister of Research and Innovation; Lynn McDonald of the Trent Board of Governors; Bonnie Patterson, President.

The facility will include new wet and dry lab spaces, classrooms and faculty offices. Phase one consists of two blocks (A&B) with a second floor above block B. These two blocks are approximately 57,900 square feet. Approximately 50 per cent of the building will be comprised of wet and dry laboratories with a strong emphasis on shared research space. Two teaching classrooms will be constructed along with offices to house Trent researchers. The second floor will be occupied by the OMNR.

Bonnie Patterson, President and Vice-Chancellor, said, "The DNA Cluster project is the ultimate example of an ideal partnership combining the best knowledge, expertise, and collaborative efforts from the public and private sectors throughout the region."

Jeff Leal, Parliamentary Assistant to the Minister of

Students within the Continuing Education program also have the choice of taking individual courses. Anyone interested in upgrading their career skills may take the courses.

"It gives you an extra edge on your resume," says Diane Wolf, coordinator Professional Development and Customized Training. "Our students may already have a degree or diploma but they would like to further their career skills."

Corporate and customized training for local businesses is another aspect of the professional development program.

"We can customize courses. It doesn't have to be one of the courses offered in our brochure," said Ms. Wolf. "We can even offer courses at the place of work. It's nice to have that local access to corporate training."

The Continuing Education program also offers personal development courses. These include a variety of special-interest classes on everything from songwriting to recreational mathematics to reflexology.

Graduate Surprised by Award

The Human Resources Professionals Association of Peterborough (HRPAP) surprised Trent Business Administration graduate Brooke Munning with a special award.

The award, which consists of a plaque, trophy and \$500, is presented to the graduating student with the highest average in Human Resources courses from the Business Administration Degree program with a specialization in Human Resources Management.

Ms. Munning graduated in May and is currently working at Fishercast Global in Peterborough.

"I'm honoured to win this award. I feel Human Resources Management is a very important contribution to the Business degree," she said. "I'm very excited that HRPAP has recognized the university's program and supports its graduates."



Left to right: Michael Hart, Past-President of HRPAP; Brooke Munning; Roger Hunter, President of HRPAP.



New Confocal Microscope Captures Brilliant Images

A brand new, state-of-the-art confocal microscope is being put to the test by the Biology Department which is using the scope to provide a wealth of data about cells and viruses.

Already a graduate student and an undergraduate student are working with the microscope, studying the interaction between viruses and host cells, said Dr. Craig Brunetti of the Biology Department.

Examples of virus-host interactions include changes in cell shape and architecture as a result of viral infection, the activation of cellular anti-viral responses such as activating the immune system, and the induction of cell death.

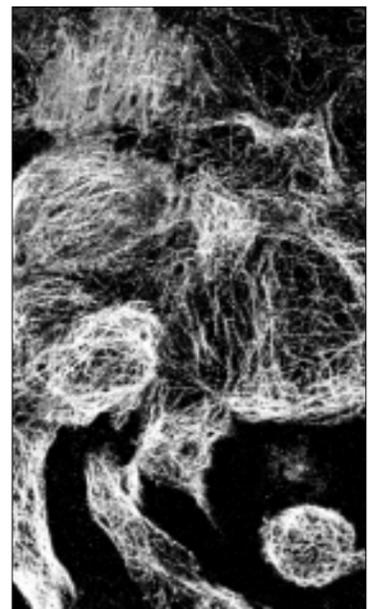
The confocal microscope differs from a conventional light microscope in a number of ways. Unlike conventional microscopes that use a halogen light to illuminate specimens, the confocal system uses three lasers to emit specific wavelengths of light that cause certain dyes to fluoresce.

In addition, instead of looking at the image through the eyepiece of a microscope, the confocal microscope uses spectral detectors to digitally capture the emitted fluorescent signal which is then displayed on a computer monitor. Multiple images of a single cell can be acquired by the confocal microscope and reassembled to give a 3-dimensional reconstruction of a cell.

Although the new microscope will be primarily used for studying host-virus interactions, it will be valuable for a number of projects.

"If we want to see where a protein is found inside a cell, we can use the microscope," said Prof. Brunetti. "It can answer a wide range of questions."

Prof. Brunetti expects graduate students and faculty will make good use of the confocal microscope. Some upper year undergraduate Honours students also will use the equipment for research, he said.



Confocal image

The system, currently housed in the Environmental Sciences Building, will eventually move into the DNA Building. A room has been specially designed to house the microscope.

A Canada Foundation for Innovation (CFI) New Opportunities grant, announced in June 2004, funded the \$450,000 confocal microscope. ©

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