

SJU Update

ST. JEROME'S MAGAZINE

FOR ALUMNI AND FRIENDS

Volume 32. Number 1
SPRING 2014

Building on Tradition

Dr. Katherine Bergman

St. Jerome's University
Student's Union

The Scholarship of
Teaching and Learning



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New Coat
of Arms


Cryptography, and St. Jerome's

An unlikely hub for
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TEACHING AND LEARNING



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Volume 32, Number 1
SPRING 2014

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Building On Tradition

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St. Jerome's University was established by the Congregation of the Resurrection grounded in their belief that "God calls us to work together for the resurrection of society, bringing God's life and love to all." The Congregation does this through their personal witness, living life in common, and in their various ministries, especially teaching and pastoral care. The almost 150-year old educational vision of our founding father, Fr. Louis Funcken was focused on "harmonizing the education of the heart (emotions) with instructions of the mind and in holding up the gospel values of love, truth and justice as exemplified by Jesus, for young people to admire."

These are exciting times for SJU as we look to the future. We have grown from those early beginnings in 1865, housed in a one-room classroom in a log cabin in St. Agatha. Today we are a growing, vibrant Catholic university, recognized as a diverse, inclusive community that brings together academic excellence, Faith and student life. Our students' come from many faith traditions, as well as reflecting the secular values of our modern society. We do not hide from difference, rather we learn to walk among diversity through education and understanding that is grounded in the Gospel values, promoting dignity and respect for all.

We have not wavered from the distinctive educational spirit and vision of our founding fathers that was supported over time by the School Sisters of Notre Dame and the Diocese of Hamilton. We remain committed to a holistic education, through open academic inquiry in the Liberal Arts. Our faculty and staff are engaged in the life and well being of our students, giving shape to their intellectual, emotional and spiritual dimensions. At SJU it is not just about what our students accomplish academically, it is about who they are and what they contribute to the common good that reflects the true value of our educational mission.

Physical space constraints and dated infrastructure on the St. Jerome's University campus have been identified as the single most important obstacle to the continuous improvement of the SJU student experience, teaching, research, and service. Campus Renewal 2015: Creating our Future, is an investment in the infrastructure necessary to support our teaching, research and student life programs. Building on the spirit of innovation that defines our partnership with the University of Waterloo we at SJU are leading the way in post-secondary education in Canada embracing Integrated Project Delivery (IPD) for our infrastructure development. IPD is a collaborative approach to infrastructure development that connects all participants in the project

from the beginning, to enable effective decision-making, enhanced communication and increased creativity throughout the project.

Today we can look to the future with confidence, knowing that we are building on a solid foundation that supports a strong mission. The Congregation of the Resurrection remains an integral part of the legacy of St. Jerome's University, which we continue to recognize and highly value, as fundamental to our spirit and vision of Catholic education. The goal of our mission is to educate the whole person – to inspire our students to broaden their horizons, to see the world from many different perspectives, to cultivate their imagination and to empathize with the experiences, hopes and dreams of others. To foster in them the ability to see what is, to advocate for the common good, the vision to see what might be and the courage to stand up for what is just, so that in this way we can truly work for the resurrection of society.

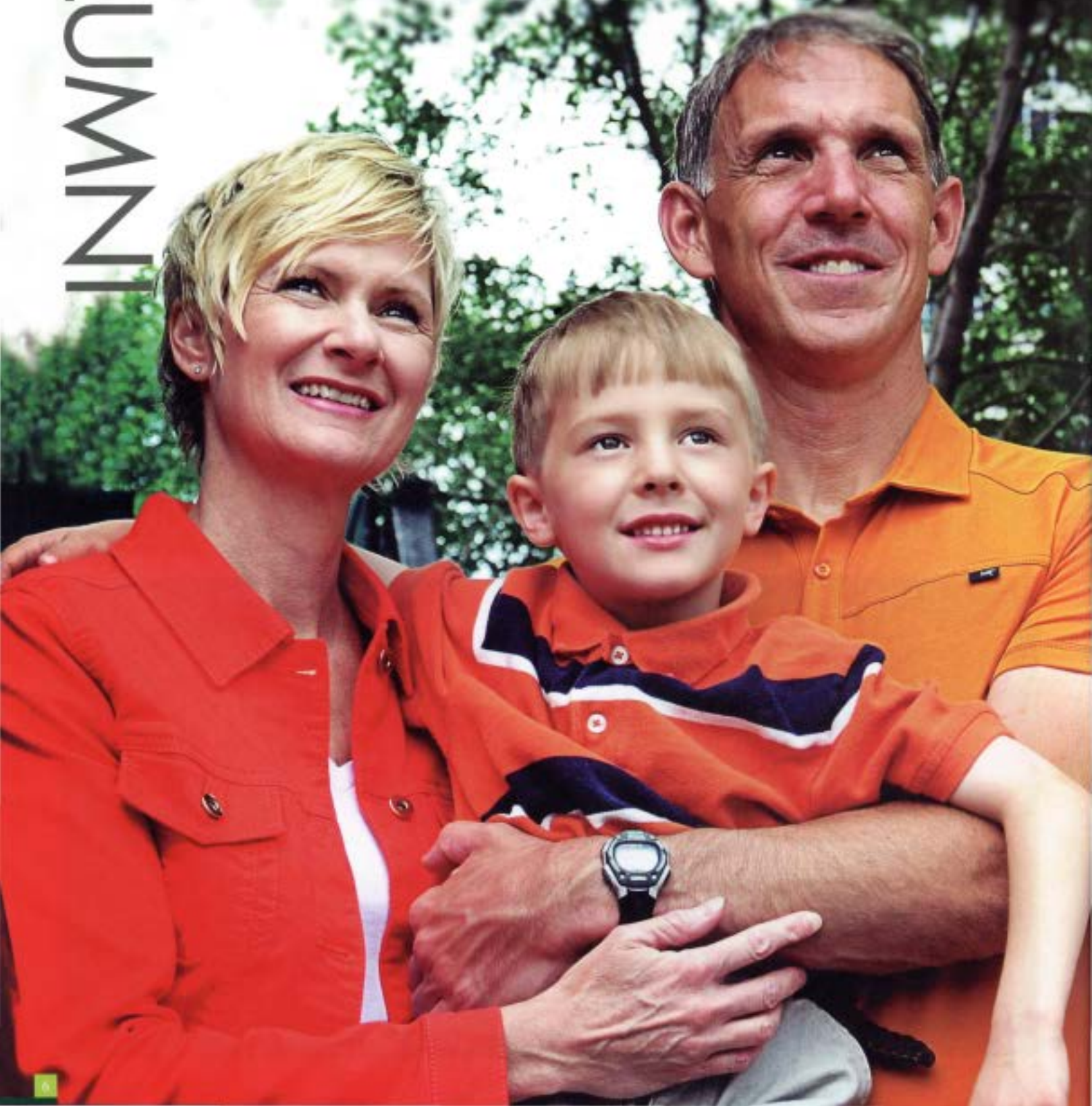
Investiture 2013

First year students joining St. Jerome's this past September were welcomed in the biggest Investiture Ceremony ever celebrated at SJU. More than 800 students, family, friends, staff and SJU faculty members gathered under huge tents on Finn Green to officially kick off the school year for the graduating class of 2016/2017.

"It's wonderful to hear from the parents, the pride that they feel in seeing their children embark on this new adventure." Remarked Sue Brubacher, Registrar at St. Jerome's. "The support that these young people have is incredible and we were so happy to welcome them all here. We will hopefully be an extension of their families and try to make the transition into university as seamless as possible."



SJALUMNI



St. Jerome's, A Place To Come Home

David Plouffe looks back on his fond memories while attending St. Jerome's University

We met with David in Calgary and his enthusiasm and passion for St. Jerome's was evident. David is helping us connect with other SJU alumni in the Calgary area. He shared his feelings about SJU with us.

David Plouffe left his military family in Germany to embark on an education in Canada at a large east-coast university. After four months David still didn't feel settled. Overwhelmed and home-sick, he moved back home with his family while exploring other options, hoping to find a better fit. Several Ontario Universities held David's interest but one phone call from St. Jerome's sealed his fate. David's father was so impressed by the personal call he received from the Registrar, that when David arrived home from work that day his father announced that David would be attending St. Jerome's. "As a typical teenager, I complained that this decision had been made. I wasn't sure St. Jerome's was what I wanted" recalls David. But as summer drew to a close, David and his belongings arrived in Waterloo where he immediately felt welcomed and at home on the St. Jerome's campus.

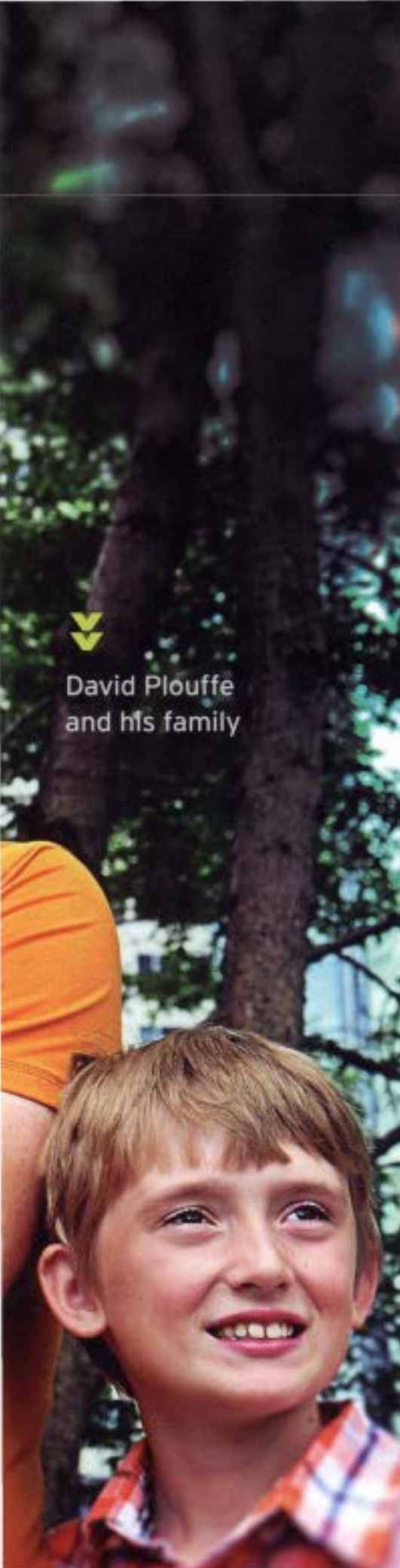
That first impression held true for David and he lived at St. Jerome's for three years. "I have so many fond memories. One thing alone doesn't stand out; it's more just a collective of happy, fun memories and crazy antics. We always went to church on Saturday evening before getting ready for a night out at Fed Hall." David played volleyball for the University of Waterloo, he remembers coming home, exhausted, after an out of town tournament; "I was so tired. I headed straight to my room, looking forward to a good night's sleep. When I got there my room was empty, clothes, furniture, everything was gone. My friends had taken my entire room and set it up in the girl's common area at Notre Dame. It was laugh, we had a lot of those."

Aside from practical jokes and nights out with friends, David values the education he received, both in and out of the classroom. David credits Fr. Norm Choate and the faculty and staff at St. Jerome's for making a difference in his life. Each of them, leaders in different ways, helped David grow and gave him opportunities to become a leader himself.

David's experience at St. Jerome's helped shape him to be the person he is today. "The class sizes were small enough that your professors knew your name, everyone knew everyone. The values of faith, community, and higher education were modelled in all aspects of my education at the university. Being at St. Jerome's gave me a place to come home. I learned so much about myself and who I wanted to be as a person. I learned about community, what it is and the support you get from it. The academics are important but it's the community that shapes you and SJU is a living-lab on the subject. I take those values with me throughout my life."



David Plouffe
and his family



Fr. Norm Choate, C.R., Distinguished Graduate Award



Patrick J. Flynn (BA '68)

St. Jerome's University was pleased to present The Honourable Justice Patrick J. Flynn with the 2013 Fr. Norm Choate, C.R., Distinguished Graduate Award during September's Investiture ceremony.

Justice Flynn graduated from St. Jerome's High School in 1963 and went on to earn his BA from St. Jerome's University in 1968 and his LLB from the University of Ottawa in 1978. Two years later Flynn became founding partner in the law firm, Flynn and Sorbara. In addition, he has served as a federal prosecutor and a part-time assistant crown attorney

for Waterloo Region. In 2002 Flynn was appointed as Judge of the Superior Court of Justice and Judge ex-Officio of the Ontario Court of Appeal.

Justice Flynn has been honoured for his model work in the Canadian justice system as well as his exemplary community work. He has been heavily involved in his community, providing volunteer leadership in many organizations including founding director of the Waterloo Regional Children's Museum, president of the Waterloo Law Association, and sitting on the St. Jerome's University Board of Governors for over a decade. Through his community contributions and dedication to his work, Justice Flynn has created a legacy for St. Jerome's students to aspire to.



A CENTURY AND A HALF OF MEMORIES

At St. Jerome's University, we are about to celebrate 150 years of academic excellence, community service, lasting relationships, and a century and a half worth of memories. We want to celebrate with you by sharing your SJU experience. We know you have stories to tell and more than anything, we want to hear them! It's time to dig through your attic, climb into your crawl space, and look back into your past to help us as we embark on our exciting future. Please share your SJU memorabilia; leather jackets, yearbooks, pennants, rings, books, photographs...we want to see it all. And of course, don't forget to tell the stories. Our past is what makes us who we are and directs us to where we are going and you are a huge part of that.

Please connect with Janet Willard, Advancement Coordinator,
at jwillard@uwaterloo.ca or call 519-884-8111 ext. 28277



Send us your news, photos, and updates to sjualumni@sju.ca

REUNION WEEKEND 2013

There is a lot of energy all over campus in September, especially as we close in on Reunion Weekend and this year was no different. On September 28, 2013 St. Jerome's held its first annual Reunion Weekend Family Fun Carnival. In an effort to offer our alumni an opportunity to visit campus, reconnect with old friends and spend an afternoon with their family, we hosted a day filled with free fun for all. SJU alumna Silvia Dee performed with her band, Silvia Dee and the Boyfriends, while guests enjoyed the bouncy castle, ferris wheel, races, games and yummy carnival treats.

A great time was had by all!



Leave a legacy of leadership

St. Jerome's founder,
Fr. Louis Funcken, CR



Since 1865, St. Jerome's University has been committed to the formation of leaders for the service of the community and the Church and the gospel values of love, truth and justice.

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- Ensure students have access to high calibre Catholic Liberal Arts education

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Contact Heather Montgomery, Director of University Relations, at heather.montgomery@uwaterloo.ca or 519-884-8111 ext 28203.

SJU

St. Jerome's University

Established in 1865

Co-founder of the University of Waterloo

www.sju.ca

St. Jerome's Welcomes;



Caitlin Mulcahy

When Caitlin Mulcahy first set foot on the St. Jerome's University campus, she was immediately taken back to her days as an undergraduate at St. Francis Xavier University in Nova Scotia, another small but vibrant institution with a Catholic tradition and a commitment to the pursuit of truth and social justice. "That feeling of community, those strong relationships between professors and students, that sense of connection between what you're learning in the classroom and how you're living your life, that's what I was fortunate enough to experience as an undergrad and that's what I want to continue to foster here at St. Jerome's." Mulcahy began her graduate career at the University of Waterloo, where she was drawn to the work of Dr. Diana Parry in Recreation and Leisure Studies: "The work that Diana was doing on motherhood and social justice was quite simply like nothing I'd seen before. I knew I had found my niche." Herself a mother of three young children, Mulcahy completed her doctoral research on motherhood and family memory prior to her appointment to the Department of Sexuality, Marriage, and Family Studies in November 2013: "I know this doesn't sound particularly academic, but I kind of feel like I won the lottery. This department, and St. Jerome's University as a whole, encourages and supports everything I value as both a person and an academic: creating strong relationships, educating the whole person, striving to create a more just world. I feel like I've found my home here in SMF at SJU, and want to do everything I can to ensure my students have the kind of undergraduate experiences I was fortunate enough to have had."



Susan Brophy

My first couple of months at St. Jerome's University have surpassed my expectations. The tight-knit community of scholars is not only extremely dedicated to their research and teaching, but they are also generous with their support for new faculty. As a new professor in Legal Studies, I am especially excited to join such a well-respected and growing program.

With two degrees in Legal Studies from Carleton University, I learned from renowned professors and was motivated by their impassioned and creative approaches to the study of law. I aspire to someday have the same impact on my students. As I have gotten to know them during the fall term, I see that the students are bright, engaged, and eager to succeed. Like my professors did for me, I hope to expand their horizons about what it means to study law from a liberal arts perspective. Indeed, a curious mind will find much to feast on in this interdisciplinary field. Once we truly appreciate not only the scope, but also the subtleties of law's influence on our lives, then we can start to see the many exciting directions that one can take in Legal Studies.

Conversations and Recognition

On November 20 & 21, 2013 some great conversations took place on campus centred around creed and human rights. Thanks to presenters Shaheen Azmi, Director, and Remi Warner, Senior Policy Analyst, of the OHRC's Policy Education, Monitoring & Outreach office, with Doris Jakobsh (University of Waterloo) and David Seljak (St. Jerome's University).

(Left to right) David Seljak (St. Jerome's University) and Laura Stemp-Morlock (University of Waterloo)



On Monday, November 18, 2013, members of the SJU community came together for The Edges of Theology: an SJU Religious Studies Author Celebration.

Scott Kline

The Ethical Being: A Catholic Guide to Contemporary Issues
Novalis, 2013

Myrosław Tataryn & Maria Truchan-Tataryn
Discovering Trinity in Disability: A Theology for Embracing Difference
Novalis, 2013

Cynthia Crysdale (with Neil Ormerod)
Creator God, Evolving World
Fortress, 2013

A book launch for Dr. Whitney Lackenbauer's "The Canadian Rangers: A Living History" (University of British Columbia Press, 2013) hosted by the Bill Graham Centre for the Study of Contemporary International History and the Munk School of Global Affairs-Walter & Duncan Gordon Foundation Arctic Security Program, was held on Thursday, January 9th in the Combination Room at Trinity College, University of Toronto.

(Left to right) Ranger Sergeant Peter Moon (public affairs, 3 Canadian Ranger patrol group), the Hon. Bill Graham (former minister of foreign affairs and of national defence), Professor Whitney Lackenbauer, Professor John English (director of the Bill Graham Centre for Contemporary International History, University of Toronto), and Lieutenant Colonel Matt Richardson (the commanding officer of 3 Canadian Ranger patrol group).

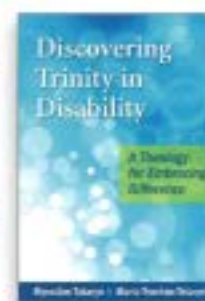
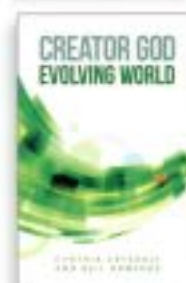
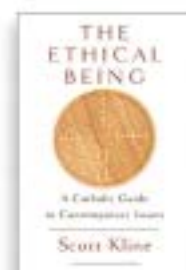
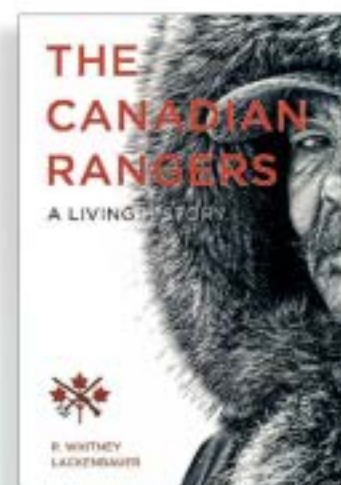


photo credit: Captain Robert Munroe, 3 Canadian Ranger Patrol Group





SJ LECTURES

Rethinking Catholicity In An Evolving World

In her 2011 book, *The Emergent Christ: Exploring the Meaning of Catholic in an Evolutionary Universe*, Ilia Delio, says: "[T]he science of evolution helps open up new windows of insight to the God-world relationship whereby we see creation not as a static world but as a relationship between the dynamic being of God and a world in process of coming to be."

What does it mean to talk about 'catholicity' from this evolutionary context? Can the church take evolution seriously as the way God is at work in the world?

On April 25, we were treated to a provocative lecture by Dr. Ilia Delio, OSF, Director of Catholic Studies at Georgetown University, who explored these questions through the lens of the thought of Teilhard de Chardin.

What a wonderful end to the 2013-2014 Lectures in Catholic Experience in which speakers from Canada, England, El Salvador, Palestine, and the United States helped us to rethink what it means to pursue the common good together.

Building A Future

ST. JEROME'S UNIVERSITY EXPANSION



Excitement is building around campus at St. Jerome's as we prepare to expand our facilities through the Campus Renewal 2015 plan. St. Jerome's is committed to the expansion in an effort to improve learning, teaching and living spaces for students, faculty, and staff.

The plan includes 64% more seats in classrooms that promise to be high-tech, flexible spaces that will suit a variety of teaching and learning styles ranging from small rooms that seat 10, to large 2 story-lecture halls. A new 360-bed student residence along with enhanced food-service facilities will allow SJU to remain competitive as well as provide a non-traditional funding source. Open and inviting gathering spaces for social and study time will bring students, faculty, and staff together, continuing to build on the feeling of community that is already a prominent part of the SJU experience.

Integrated Project Delivery (IPD) is a collaborative approach to a project of this scale where all parties involved come to the table from the beginning. St. Jerome's is the first Canadian university to embrace this method. The IPD process reduces the risk of the project exceeding budget and time limits by identifying challenges from the beginning. Working with architects, contractors, administrators and finance partners together, potential problems are solved long before a shovel goes into the ground.

Campus Renewal 2015: Creating our Future takes place during our 150th anniversary celebrations. This is wonderful way to honour our past while also looking ahead to the next 150 years of excellence in educating the whole person.

Stay tuned to our website at sju.ca for updates and watch for the webcam footage on the site, where you can follow progress on the transformation as it happens.



SJ FUTURE



A Community Focused Approach

ST. JEROME'S UNIVERSITY STUDENT UNION

The SJU Student's Union began reinventing themselves in the last couple of years with a focus on connecting students with one another, faculty, staff, administration, alumni and University of Waterloo. In 2012, while Maggie Hamel-Smith Grassby was SU President, the Student's Union unincorporated. No longer being a separate entity meant that the SU could have a more cohesive, collaborative relationship with the university. Maggie hoped "students would be able to have a hands-on approach to their education and community."



Nine students make up the Student Union at St. Jerome's. Each member is elected by their peers, all academically enrolled SJU students are eligible to vote, and all enrolled SJU Arts and Math students are represented by the SU.

What can sometimes be an adversarial environment, with some student unions advocating for student rights, the SJU Student Union has taken a more community focused approach.

When asked about what is important for people to know about the SJU Student's Union, Human Resource Officer Anne Marie Hayman said "I want students to know that we're creating community. We want people to know that they're not just a number, they are part of something special."

Paula Colaso, SU's current President, encourages students to get involved. "The opportunities for learning, professional development and leadership are abundant when you're part of SU. It's a different kind of experience because SU is run like a business. You connect with professors, staff and administration and build school spirit. I'm really proud of the work we're doing and hope others will get involved."

A lot of work has been done behind the scenes over the past few years and Dean Draycott, Public Relations Officer, is excited to start implementing strategies they've put in place. "We built the ground work, did the policy work, laid the foundation for the future of the Student's Union. I hope students will see value in the work we're doing and know that we're here to support them and make their experience at SJU the best it can be."

From left to right

Dean Draycott,

Keegan Morrissey,

Kodi Page,

Paula Colaso,

Sarah Fraser,

Anne Marie Hayman,

Justine Fram,

Maggie Hamel-Smith Grassby,



Life In & Around The Campus

Coffee House

St. Jerome's has a longstanding tradition of gathering for community Coffee Houses. It is here that student talent is showcased, allowing all community members to stand up and share some of their unique and amazing talents. From spoken word to singing, to saxophone solos and dancing, the traditional SJ Coffee House is never a dull moment. This memorable event speaks volumes within the whole community, uniting students, staff and leaders together in support and excitement.

Frosh week (Rollerblading/Pavement painting)



Fall Orientation Week 2013 at St. Jerome's was jam-packed with icebreakers, events and exciting activities. All SJU students were invited to join our block party, allowing St. Jerome's to meet and greet members of the other university colleges. Our community event of the week was painting the parking lot. The parking lot was sectioned off into quarters, each of which was designated to a specific SJ house to paint. After buckets and buckets of paint and a lot of hard work, the beautiful mural now serves as a permanent reminder of our amazing community and the energy that we have when we all come together.

House Comps

House Competitions are looked forward to by all students at SJ. Whether it's a first year student or a fourth year Community Advisor, showing your house pride is something taken very seriously at St. Jerome's. Points were racked up by each of the four houses during the week through night-time activities such as "Name that Tune", afternoon sports-related games such as soccer, and of course, house cheers and dinner entrances. Students had a blast decorating the community centre and screaming their house cheers at the top of their lungs. In the end, Leon took the victory, but it was a great effort put forth by all houses!

Halloween

Halloween was a very spooky time at St. Jerome's. After dressing up in creative and fun costumes, students participated in a Haunted House. This was put together by our very own SAT crew, and designed to frighten everyone as much as possible. The rest of the night was filled with trick-or-treating throughout residence and a competitive costume contest. Overall, Halloween at SJ was a ghostly night of terror and excitement.

Fall Formal - "A Night Under The Stars"



Wouldn't you love to re-live your prom night? SJ students were given that chance at the annual St. Jerome's Fall Formal planned by a committee of our very own dedicated, hardworking students. "A Night under the Stars" was a great evening filled with laughs, tons of pictures, and endless memories. After a delicious meal and the presentation of spirit awards, students took over the dance floor and partied the night away.

De-Stress (SundaeSunday/Hands on Exotics)

Finals week is one of the most stressful times of the year for all students. To help with this, de-stress events took place to help take student's minds off of the exams ahead. Sundae Sunday and Hands on Exotics were just two happenings for the week. The word "adorable" was redefined when students were able to hold baby kangaroos and chinchillas. These refreshing events were very helpful and definitely necessary.

Xmas House Dinner A Very SJ Christmas/Parade of Lights

A very SJ Christmas was a merry evening, indeed. Cozy sweaters and hats were worn to celebrate the holiday season at this wonderfully themed house dinner. Santa Clause made a guest appearance and brought everyone further into the spirit of the night. After dinner, students participated in the Parade of Lights, a traditional ceremony where Christmas Carols are sung and glowing candles are lit as the community walks around the buildings to share the Christmas spirit. To end off the night, students gathered in Siegfried Hall to attend an entertaining coffee house.

SJU SWAGger

It's clear St. Jerome's stays with you forever, but why not have something to remember it by? Visit the SJU Swagshop at swagshop.sju.ca and support your Green & Gold spirit for all to see.

For any questions, concerns, comments, ideas or feedback contact studentunion@sju.ca



swagshop.sju.ca

The World Book of Love

Love is a universal concept, but a hard one to define. When we love, we laugh, we cry, we ache, we need, we hurt, and we forgive – love is powerful, to say the least. Hollywood has taught us their version of love, but cultural differences across the globe mean that love cannot always squeeze into the Hollywood mold.

Scientists all over the world have dedicated their time to the study of love. Editor Leo Bormans invited over one hundred, representing dozens of countries, to share their discoveries – in 1000 words or less! – with a lay audience that has already included dignitaries such as the prime minister of Belgium.

SJU Psychology faculty members John Rempel and Chris Burris are two of the international voices chosen to describe what their own research has revealed to them about the nature of love.

And what has their research revealed (based on excerpts/paraphrases from *The World Book of Love*)?

John Rempel: Quite simply, we believe that love is a motivational state in which the goal is to preserve and promote the well being of the loved one – in short, love, in all of its varied forms, shares the common foundation of wanting what is best for the thing we love. By recognizing that love is a motive, we can begin to understand why it is such a powerful force in people's lives. Unlike intense emotions or profound appreciation, the desire to promote and preserve another's well-being demands action. This is the true power of love – the power to inspire change, not only in how people think or feel about each other, but in what they want to do for each other.

Chris Burris: Many a theologian has asserted that God is love. A few have declared that Love is God. As a social psychologist of religion, I've discovered that experiencing altruistic love for another has mystical properties, so I make the more modest, cumbersome claim that "Love can feel like what many people would call God."

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HINCHCLIFFE AWARD

The New Quarterly: Canadian Writers & Writing is pleased to announce the winner of the 2013 Peter Hinchcliffe Fiction Award, sponsored by the St. Jerome's University English Department. The \$1000 award, for a work of short fiction by a writer in the early stages, is named in honour of Peter Hinchcliffe – who was instrumental in the founding of the magazine and made an impact in the lives of many students in his longstanding role as lecturer at St. Jerome's University.

Now in its second year, the award gained national notoriety after both the winning and second-place story of the first annual Peter Hinchcliffe Fiction Award were long-listed for the Writers' Trust of Canada / McClelland & Stewart Journey Prize. The Journey Prize is awarded annually to a new and developing writer of distinction for a short story published in a Canadian literary publication.

"When I got the email saying my story had won the Peter Hinchcliffe award, I thought I couldn't be happier. It's a thrill to be published, an honour to be recognized," says Zoey Leigh Peterson, the 2012 winner. "Then when the story made its way into Best Canadian Stories and The Journey Prize Stories, I thought, okay now I couldn't be happier. But the effects keep rippling out. A year and half later, I feel like I'm still winning the Peter Hinchcliffe Award, more every day." Petersen has just completed a draft of her first novel, and is already fielding inquiries from publishers.

The winner of the 2013 Peter Hinchcliffe Award is Alanna Marie Scott for "Maybe the World is Ending."

"Maybe the World is Ending" is unlike anything that comes across our desks," says Pamela Mulloy, TNQ's Editor. "The story has tension, weirdness, sympathetic characters, nothing too jarring in dialogue or description. There is a poetic quality to the writing, the lyrical tone carries you along the question of faith or belief is almost irrelevant as we, along with Nuala, journey with the charlatan in the skinny tie." It is Alanna Marie Scott's first published story, though she's been subsequently published in Room Magazine.

The Winner and runner-up of the 2013 Peter Hinchcliffe Fiction Award can be read in issue #128 of The New Quarterly, available for purchase at tnq.ca. TNQ also offers free digital access to readers while on St. Jerome's campus: tnq.ca/sju-digital



Original concept of Darrel Kennedy, Assiniboine Herald, assisted by the heralds of the Canadian Heraldic Authority.

Painter: Linda Nicholson
Calligrapher: Shirley Mangione
Public Register of Arms, Flags and Badges of Canada, Vol. VI, page 283, 20 December 2013.

St. Jerome's University Presented Grant of Arms

On December 20, 2013 Claire Boudreau, Chief Herald of Canada, under authority vested by His Excellency the Right Honourable David Johnston, C.C., C.M.M., C.O.M., C.D., Governor General of Canada, officially presented the grant of arms to St. Jerome's University.

Arms: Green and gold are the traditional colours of the university. The lion is a well-known attribute of Saint Jerome. Representing a chalice, the rose is enclosed in branches adorned with seven thorns recalling the seven gifts of the Holy Spirit. The three fleurs-de-lis evoke the Blessed Trinity, and also the Virgin Mary, who has a lily as an emblem. The rose and fleur-de-lis represent respectively the English and French origins of Canada. These colours and symbols have been used by the university for several years.

Mottoes: IN SANCTITATE ET IUSTITIA, a Latin phrase meaning "In holiness and righteousness" (Luke 1:75), was the personal motto of the late Joseph Ryan, who was Bishop of the Diocese of Hamilton at the time St. Jerome's College was renewed in Kingsdale in 1953. It was adopted by the university with his permission. SPLENDESCIT ARDOR LABORIS is a Latin sentence meaning "The intensity of your work shines forth".

SCIENCE MATHEMATICS

How did a small Canadian university founded as a “church college” become an epicentre of research into one of the most important innovations of the digital age?

CRYPTOGRAPHY AND SJU

An unlikely hub for world-leading research in the science of keeping secrets secret

How did a small Canadian university founded as a “church college” become an epicentre of research into one of the most important innovations of the digital age? The answer to that question requires a bit of codebreaking.

St. Jerome’s University seems like an unlikely hub for world-leading research in cryptography – the high-tech science of keeping secrets secret. Unlikely, yes, but that’s part of the key to deciphering how it happened. “It was quite fortuitous,” recalls Scott Vanstone, a professor emeritus at SJU/University of Waterloo and the self-described “patriarch of cryptography” at the university. “There was no grand plan for this to happen, but it did.”

Cryptography is the complex marriage of mathematics and computer science that allows you to safely shop online without broadcasting your credit card number to would-be crooks, and keeps everything from military secrets to medical records under digital lock and key.

The subject of cryptography hadn’t even crossed Vanstone’s mind when he joined St. Jerome’s in the summer of 1974; he was just happy to have a job. Vanstone had recently finished his PhD in design theory and, knowing that jobs for someone with his credentials were “not plentiful,” he pounced at a one-year contract at St. Jerome’s, filling in for a math professor on sabbatical.

Vanstone taught first-year algebra – a course for which he later wrote an authoritative textbook – and strove to help his students see the relevance of the topic. “Students would always ask, ‘what good is algebra?’ So I wrote a chapter on cryptography for my textbook.”

By then, Vanstone had stumbled upon a now-seminal paper that proposed a new concept called public-key cryptography (RSA), which would become the standard for internet security in the 1990s.

In the late 1970s, however, these early cryptography systems were far from complete, and much mathematical work was required to make them practically applicable. So Vanstone got to work. One of those early papers, for example, had proposed the idea of a “digital signature,” but stopped short of providing the mathematics behind it. “I came up with the algebra for that.”

Vanstone had, almost by accident, ventured into a burgeoning field that would define his career, and to which he would make pioneering contributions. But he knew he couldn’t do it alone. Vanstone had a knack for spotting brilliant young mathematicians, as he did during one visit to a Brampton high school in 1983.

Alfred Menezes had what Vanstone describes as “the sparkle” – a glimmer in his eyes that shone brightly when Vanstone told the high-schoolers about mathematics at St. Jerome’s. Until then, Menezes had dismissed the idea of going to a “little college on a bigger campus,” but after a firm

SJMATHMATICS

handshake from Vanstone, he enrolled at St. Jerome's. "That handshake made quite an impression," recalls Menezes. It must have, given that Vanstone and Menezes became lifelong colleagues, spanning from Menezes' undergrad days to his ascent to Chair of the University of Waterloo's Department of Combinatorics & Optimization.

Together, Vanstone and Menezes tackled some of the most vexing questions in cryptography – a topic that became increasingly important with the rise of the internet. Their research spawned a spin-off company, Certicom, which provides cryptographic tools for wireless communications; if you've ever used a BlackBerry, your emails have been safeguarded by Certicom technology.

As computers have become steadily more powerful – and hackers have become craftier at cracking codes – the need for ultra-secure cryptography has intensified.


That urgency is compounded by the prospect of a new breed of computer with enough processing oomph to crack all the cryptography currently used online. Quantum computers, which process information by manipulating quantum particles such as atoms and photons, promise to drastically outperform their "classical" counterparts in many ways.

Although these technologies will have tremendous benefits (which motivate research at the independent Perimeter Institute and the University of Waterloo's Institute for Quantum Computing) they also have the potential, like any technology, to be disruptive. The question of how to protect private information against the codebreaking power of quantum computers sparked new research in the 1980s and 1990s.

Michele Mosca was earning his master's at Oxford in the late-1990s when he first heard about quantum computing. He reacted the way most people do to the concept of futuristic supercomputers that harness atoms and photons: "It sounded like science fiction."

But having earned his undergraduate in mathematics at St. Jerome's, with Vanstone as his academic advisor, Mosca knew that the best way to distinguish science from science fiction is to read research papers and do some math. As part of his master's project, he wrote a chapter on quantum algorithms – the operating instructions of a quantum computer – and quickly "realized this stuff was important."

Back in Waterloo at the time, Vanstone and Menezes were founding the Centre for Applied Cryptographic Research (CACR), and they knew the research hub would benefit from expertise in quantum cryptography. Mosca was that "quantum guy,"



It is with heavy hearts that we report that after this article was written, Dr. Scott Vanstone passed away. Scott served as a respected faculty member of St. Jerome's in the department of mathematics from 1974 until he retired in 2009. Scott's achievements are many and include being elected as a Fellow of the Royal Society of Canada in 1998 and receiving the Premier's Award for Lifetime Achievement in Innovation in 2009. Scott will be missed by many.

as he puts it, and he went on to become co-founding deputy director of the Institute for Quantum Computing.

Meanwhile, St. Jerome's continued to attract some of the brightest young mathematicians eager to delve into the fast-changing world of cryptography.

Anne Broadbent enrolled in 1997, believing the smaller class sizes at St. Jerome's would create a sense of "friendly competition" among classmates and allow more one-on-one time with professors. She was right on both counts.

"The professors went the extra mile to make sure we had everything we needed to succeed," recalls Broadbent, who recently joined the faculty at the University of Ottawa, specializing in quantum cryptography. "St. Jerome's had a big influence on my life and studies."

Those sentiments are echoed by Douglas Stebila, who enrolled at St. Jerome's in 1998 because he was aware of the school's reputation in cryptography.

"I knew it was the right place to do the kind of things I wanted to work on, with the people I wanted to work with," says Stebila, now a faculty member at the Queensland University of Technology. "It still feels like one of my homes."

Vanstone, the "patriarch of cryptography," is now retired from the university, but still developing cryptography for his new company, TrustPoint Innovation Technologies.

Looking back over his 35-year career in cryptography at St. Jerome's, he realizes the "secret" to his success was no secret at all, but rather the result of brilliant minds working in a collaborative environment that encouraged exploration.

"We had a unique blend of people, and we had the freedom to pursue these big questions," Vanstone recalls. "Waterloo is now a major centre of cryptography, and St. Jerome's is the genesis of that."

CONSOLIDATING MATHEMATICS

St. Jerome's University and the University of Waterloo's Faculty of Mathematics are pleased to announce that we have reached an agreement that will provide for the consolidation of mathematics at the University of Waterloo. This agreement is effective May 1, 2014. As part of this agreement the faculty members in mathematics at St. Jerome's will join their colleagues in the Faculty of Mathematics at the University of Waterloo.


It's bittersweet to say good-bye to our SJU Math professors. Their commitment to SJU set a standard for teaching, service, and leadership among their peers. Although they will just be "across the creek," we will miss them. However, their departure will allow SJU to build on our current strengths in the liberal arts and to consider exciting opportunities for new academic programming, expanding existing programming, and possible growth in graduate studies.

Although SJU will no longer have our own Math faculty, the Faculty of Mathematics will offer the core math courses at SJU as part of the SJU Math Option. The roughly sixty students who chose to be a part of the SJU Math Option will constitute a cohort of students who take not only their Math together but also their required English and Speech Communications courses. So while Math at SJU might look somewhat different this coming fall, we are delighted to continue the SJU tradition of supporting a strong cohort of mathematics students.

SJU is proud of its historic, outstanding contribution to first and second year undergraduate Math students enrolled at UW. Programs such as Cryptography have been ground-breaking and met with well-deserved international recognition. We look forward to working with the Faculty of Mathematics as we develop the SJU Math Option and welcome math students to a supportive community that nurtures the whole person.

SJFEATURE





The Scholarship of Teaching and Learning

Understanding Both Teaching and Learning

Tracy Penny-Light, Associate Professor Sexuality, Marriage, and Family Studies

The Scholarship of Teaching and Learning (SoTL) encompasses a wide array of research that provides a deeper understanding of both teaching and learning (the practices and approaches surrounding things like learning activities, assessment methods, teacher knowledge, etc.). At its core, SoTL seeks to explore and uncover what teachers need to know and be able to do in order to teach something that they already understand to learners who do not yet have those abilities (Shulman, 2002). For me, though, it has taken on an even more important meaning – I believe that SoTL can help us to truly transform higher education so that we are able to deeply engage learners in a process that allows them to graduate capable of critical and creative thinking and able to clearly reflect on and articulate what they know, understand, and are able to do as responsible citizens. My exploration of electronic portfolios (ePortfolios) has framed my SoTL work over the last decade. I have used ePortfolios to engage learners in deep learning that encourages them to reflect on their knowledge, and transfer their learning between and amongst a variety of learning contexts (classroom, workplace, and community). This has highlighted the importance of allowing time and space for learners (and teachers) to reflect on what they know and are able to do and how they know so that they can strategize where to learn next (Penny Light, Chen & Ittelson, 2012). This has been particularly fruitful in the Sexuality, Marriage, and Family Studies program where we have integrated ePortfolios across the curriculum and can see visible evidence of how and why our students learn.

Training Second Language Students

Kerry Lappin-Fortin, Assistant Professor Italian and French Studies

My current research activity is in the field of applied linguistics; its purpose is to help find ways to do my job better – that is, to be a more effective French language teacher. For my last project, I examined a corpus of writing samples from 250 first year students who had graduated from either French Immersion or Grade 12 Core French. I wanted to compare their abilities in terms of grammar and sentence structure, and “diagnose” their weaknesses. Do these two groups of students have different needs? Among other things, this study highlighted the difficulty they ALL have assigning gender (masculine or feminine) to even the most common of nouns. So now, I ask myself, how can I “teach gender”? My next project is to measure the accuracy rates of students who have received focused attention on this problem, and those who have not. I also teach a course in French pronunciation, and recently began experimenting with self-assessment as a tool to help students become more autonomous learners. My theory is that you can only correct your mistakes if you can HEAR them. Is it possible to train second language students to more accurately evaluate their own pronunciation? If so, they will be able to continue perfecting their accent, even after the course is over.

Transitioning To The Labour Market

Dr. Maureen Drysdale, Associate Professor Psychology

Dr. Maureen Drysdale has been researching learning outcomes and methods to improve the teaching and learning environment for more than 20 years. Her research focuses on the many factors that impact academic achievement and the subsequent transition to the labour market. This includes examining the learning environments and learning outcomes of students in post-secondary education as well as secondary students with emotional and behavioral problems. Of particular interest is the role of experiential education such as co-operative and work-integrated education (CWIE) on school to work transitions. Maureen is currently examining whether CWIE enhances certain attitudes and behaviours that are believed to be important for successful transitions. This research extends far beyond Waterloo in that she is the lead investigator on a large international project examining the attitudes and behaviours of post-secondary students from the USA, Sweden, Australia, and the UK. Recently, she and her research team received a grant from the Ontario Ministry of Training, Colleges, and Universities to examine the health related behaviours of new graduates as they transition to the labour market. When new graduates start their first full-time permanent job, they are faced with many challenges – all of which can impact physical, mental, and social health. The goal of the project is to identify certain factors that impact overall health. Maureen has also completed projects examining ways to improve deeper learning in large lecture based courses.

Ethical and Effective Use of Information

Lorna E. Rourke, St. Jerome's University Librarian

The most important aspect of my role as a librarian is to help students find, evaluate, and use information ethically and effectively. As such, much of my daily work and my research focus on the ways in which students acquire knowledge and how librarians and faculty can help students learn more effectively. One focus of my research has been on active learning in the library, classroom, and beyond. For example, a conference presentation at the Teaching, Technology and Transliteracy Conference in New York in 2013 called 'Helping Students Become Digitally Literate through Empowerment and Active Learning' focused on my work with senior high school students who were in a cooperative education program at St. Jerome's University. I challenged these students to use their own experiences to evaluate the usefulness of information; students demonstrated deep learning through the assignments and experiments they conducted.

Another focus of my research is my work with Dr. Lorraine Carter, Director of the Centre for Flexible Teaching & Learning at Nipissing University, to examine the ways in which technology both enhances and detracts from teaching and learning. We presented a paper at the 2013 Society for Teaching & Learning in Higher Education (STLHE) Conference in Nova Scotia on 'Managing a Virtual Pandemic: using technology well for work and life', will be speaking at the 2014 Teaching Professor Technology Conference in Colorado on 'The More Things Change, the More They Stay the Same?: An evidence- and experience-informed look at the impact of educational technology on teaching in higher education', and recently submitted a research paper on this topic to the journal *Collected Essays in Learning & Teaching*.

Raising the Profile of Teaching and Learning

Cyntha Struthers, Associate Professor of Mathematics

Cyntha Struthers, Associate Professor of Mathematics at St. Jerome's, was approached in 2013 by the Dean of the Faculty of Mathematics at the University of Waterloo to become the first Faculty of Mathematics Teaching Fellow. One of the roles of the Teaching Fellow is to act as an advisor on how best to use the resources and expertise of the Centre for Teaching Excellence (CTE) to support teaching in the Faculty of Mathematics.

In her role as Teaching Fellow, Cyntha is developing an orientation program for new faculty involving resources from both the Faculty and CTE. As well, she is investigating ways to support faculty members seeking to improve or enhance their teaching skills and strategies.

Most recently the group of Teaching Fellows (one from each faculty) have succeeded in having a regular presentation on teaching added to the University of Waterloo Senate meetings similar to the regular research presentations.

Cyntha enjoys sharing ideas with the Teaching Fellows from the other faculties at monthly meetings but feels that teaching mathematics presents challenges which differ from teaching in other faculties. "My goal is to figure out what it is that our students really pick up on - to scratch the surface of what makes a great university math teacher. I plan to build on the wonderful work being done by CTE and translate it to math and computer science teaching."

Were You Married At St. Jerome's?

Did you fall in love at SJU? Did you tie the knot here? If you were married in the Chapel or Siegfried Hall at St. Jerome's then we want to walk down memory lane with you. Please show us your wedding photos, share your stories and tell us about your wedding day. We would like to feature the marriages that began at SJU in a future edition of SJU Update.

Email your story and photo's to Janet Willard jwillard@uwaterloo.ca or call 519-884-8111 x 28277



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Thirteenth Annual St. Jerome's Feast



The thirteenth annual St. Jerome's Feast took place on Friday, September 27, 2013. One hundred and sixty-five members of the St. Jerome's community came together to celebrate Frank Clifford Sr. for his commitment and contribution to Catholic Education. Frank was chosen as the recipient of the 2013 Chancellor John Sweeney Award for Catholic Leadership in recognition of his decades of service to the community.

Although Frank Sr. was unable to attend due to illness, his family stood proudly in his place and accepted the award on Frank Sr.'s behalf. In Frank's speech, given by his son Frank Jr., it was evident that Frank Sr. touched the lives of many in the room, the Region, the Diocese and the Province.

Join us on Friday, September 26 for the fourteenth annual Feast of St. Jerome.



2014 St. Jerome's Feast

Fourteenth Annual Feast of St. Jerome
 Friday, September 26th, 2014
 D.R. Letson Community Centre
 St. Jerome's University
 290 Westmount Road North, Waterloo

SAVE THE DATE

SJU

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St. Jerome's Offered A Sense Of Fun And Community



Paul Terpstra graduated from University of Waterloo with a BMath in 1987 and was an academically registered student as well as a resident at SJU. Paul is a Senior IT Manager in Direct Channels Technology Solutions, TD Bank Group overseeing the technology applications for their North American fleet of ATMs. He was kind enough to share his donor story with us.

You graduated in 1987 with a BMath from St. Jerome's/University of Waterloo. Why did you choose to register and reside at St. Jerome's?

"I've always been a numbers-guy, I excelled in math so University of Waterloo seemed like an obvious choice. St. Jerome's, offering classes in math and being a Catholic University, was a natural fit for me."

What is your fondest memory of your time at SJU?

"I have so many fond memories. There was just this sense of fun and community. I lived on the 3rd floor and we always had regular poker games. We could never find a space large enough for everyone on the floor so we took the door off of one of our rooms and set it up as a table in the washroom. It was the biggest space we could find!"

"There was this wonderful, diverse range of people with different backgrounds and interests at St. Jerome's. Living in residence exposed me to so many interesting people. I loved the sense of a small community. I formed many friendships, some which I am still in regular contact with, 25+ years later. It was a great place to transition into being an adult."

Paul, you made your first donation to St. Jerome's in 1989, what inspired you to make that first gift?

"I don't remember if someone called me or if I was mailed something, but I remember that I was asked. It was an easy decision to make a donation. I began giving because my years at St. Jerome's were some of the most memorable of my life and I hope that by donating, others would be able to have similar experiences."

You've been making donations consistently for 17 years, thank you for that. What would you say to others who are considering making a gift?

"Education is so important. Without a good education it is difficult to have a meaningful, impactful, sustainable job. Giving to St. Jerome's is a way for me to give back and it's so easy. I give monthly; it's easier for me than doing it in one lump-sum. If everyone gave a little bit, it would add up in a hurry."

SJDONOR



See how St. Jerome's students are thanking our donors for all you've done for them - watch our donor video, www.sju.ca/donor/thank-you-our-donors

Fr. Funcken Takes Up Residence At St. Jerome's

The statue of St. Jerome's founder, Fr. Louis Funcken, has taken up residence on SJU's campus. In September 2013 the Fr. Funcken statue moved from its long-standing home at St. Mary's Parish to Choate Common on the Campus of St. Jerome's University. The statue was commissioned by "THE GRATEFUL ALUMNI A.D. 1907" and executed by Italian sculptor Raphael Zaccagnini.



HERE'S HOW TO GIVE:

Giving a gift is as easy as visiting our website at www.sju.ca/donors and clicking on the "Donate Now" button. For more information, please contact Heather Montgomery, Director of University Relations, at heather.montgomery@uwaterloo.ca or call 519-884-8111, ext. 28203.

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