

**The Nick Novakowski  
Senior Project Conference**



**Grenfell Campus, Memorial University**

**6 April, 2018**

**GRENFELL**  
CAMPUS



## Dr. Nick Novakowski



This student conference is in memory of Dr. Nick Novakowski, a colleague, mentor, friend, and excellent researcher.

It is fitting that Dr. Novakowski be honoured in this way in that he was known to be one of the most supportive and popular professors.

His door was always open to students and colleagues alike, and he readily engaged in any number of topics.

This conference is a celebration of student research across the campus which was something that Dr. Novakowski championed during the sixteen years that he was a part of the Grenfell community.

His own legacy as a researcher is indicative of the high standards he expected of students and of himself.

We are pleased to welcome students to share their research with the entire Grenfell Campus community and the general public in this forum, in the spirit of Dr. Novakowski's dedication to research excellence.

**General information** The conference will start at 1515h in the atrium with a welcome by Dr. Jeff Keshen followed by a set of concurrent oral presentation sessions in various rooms round the Arts and Science Building and Annex. A nutritional break and poster session will take place from 1700h-1730h in the Atrium and Airport Lounge areas of the Arts and Science Annex. The conference will move to the Fine Arts Building at 1900h for the Silent Art Auction and Senior Theatre Production.

**Oral Presentations** Length of the oral presentations has been set by each student's program. Presentations should be compatible with the computer systems in the Grenfell lecture rooms and delivered to your session moderator on a USB thumb drive or by email ahead of time to allow for uploading.

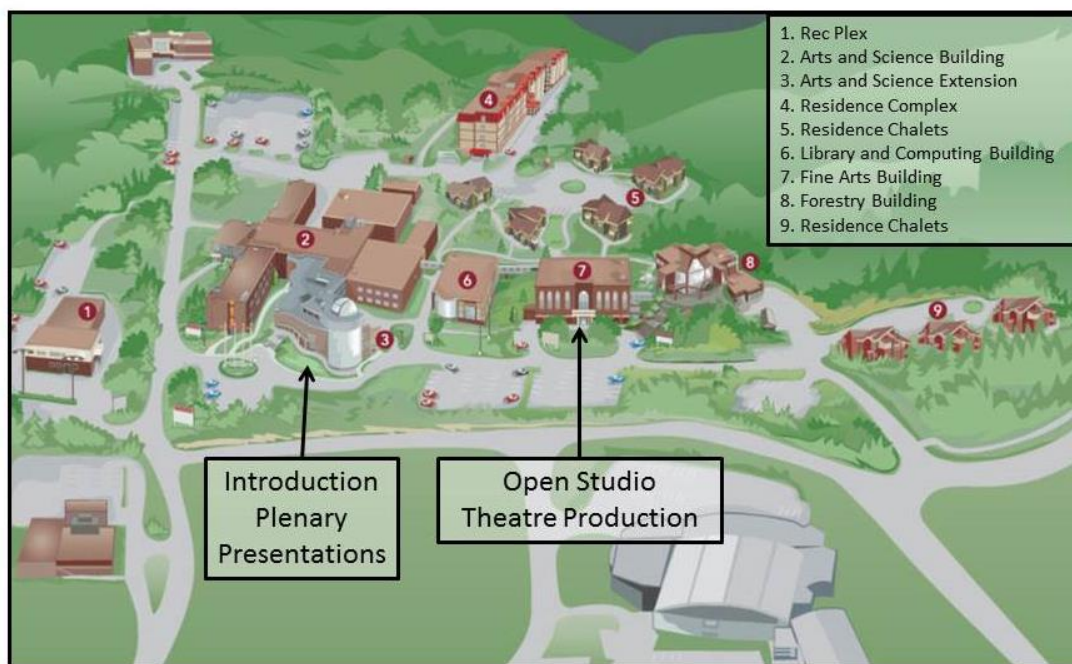
**Poster Presentations** Posters should be hung in the designated areas of the Atrium and Airport Lounge on Friday afternoon before the conference begins. Presenters should consult with their program chair/advisor regarding poster size specifications. Poster presenters should bring their own materials (tape, sticky tack, etc.) to hang their posters. Poster presenters are expected to attend their poster during the poster session/nutritional break (1700h – 1730h). Some programs may require poster presenters to attend their posters for more time than is allotted in the schedule. Please remove your poster when the conference ends.

**Breaks** A nutritional break will be held from 1700h-1730h in the Arts and Science building Atrium and Airport Lounge areas. Though coffee cups will be provided, we ask that you please bring your own re-usable beverage container.

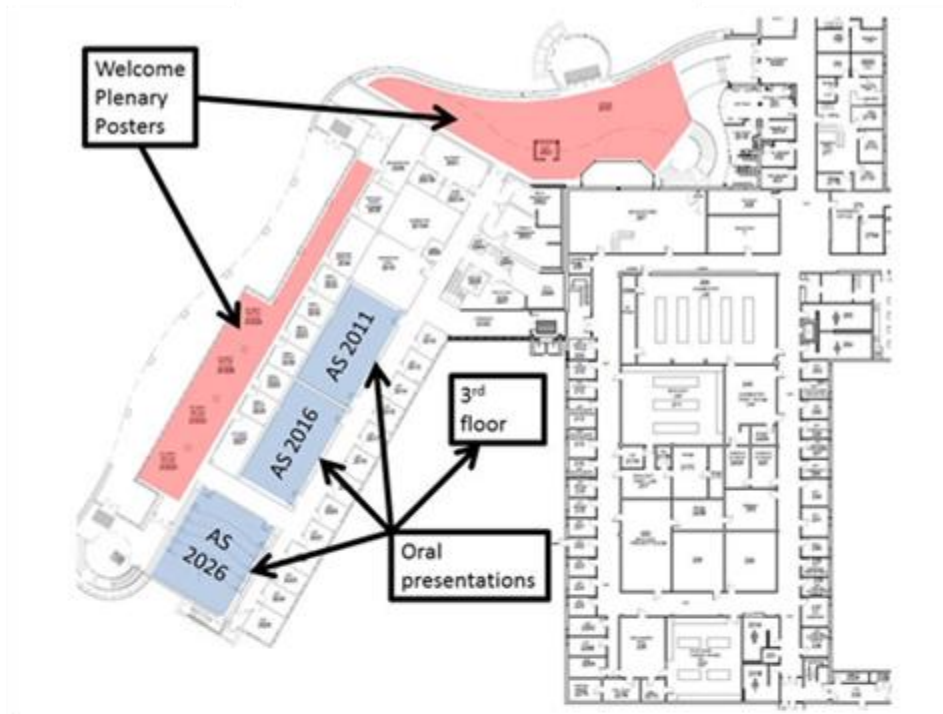
## Program Schedule

Time	Event	Location
1515h	Welcome and Plenary Speaker	Arts and Science Atrium
1530 – 1700h	Oral Presentations – Session 1	Arts and Science lecture rooms
1700 – 1730h	Coffee Break and Poster Session Visual Arts Performance	Arts and Science Atrium and Airport Lounge
1730 – 1900h	Oral Presentations – Session 2	Arts and Science lecture rooms
1900 – 2200h	Open Studio/Silent Art Auction	Fine Arts Atrium
2000-2200h	Senior Theatre Production	Fine Arts Theatre

## Campus and building maps



### Arts and Science Ground Floor



### Arts and Science Upper Floor





## Oral Presentation Schedule

Time	AS 2026	AS2016	AS 2011	AS 375
	PSYCH P Stewart	ENVS I Warkentin	BUSN/EVST/SRM S Decker	MATH/PHYS J Howell
1530	<b>Alexander, Emily</b> AUDITORY PROCESSING DIFFERENCES BETWEEN FORMALLY-TRAINED AND SELF-TAUGHT MUSICIANS	<b>Coombs, Sarah</b> LIQUID PHASE DETECTION OF ARSENATE USING SURFACE ENHANCED RAMAN SCATTERING (SERS)	<b>Baker, Nancy, Gaudette, Katie, Murdoch, Mark, Pike, Ryan and Pilgrim, Blaine</b> EVENT DEBRIEF: CHAMPAGNE UNDER THE STARS	<b>King, Hayley</b> POPULATION DYNAMICS MODELING VIA DIFFERENTIAL EQUATIONS
1545	<b>Bennett, Savannah</b> I’SE THE B’Y THAT’S PLACE ATTACHED: NEWFOUNDLANDERS AND LABRADORIANS’ PLACE ATTACHMENT AND POTENTIAL PSYCHOLOGICAL BENEFITS	<b>1552</b> <b>Dempsey, Britton</b> UV-VIS SPECTROSCOPIC MEASUREMENT OF K <sub>ow</sub> FOR A NUMBER OF 2-ARYL BENZOTRIAZOLE DERIVATIVES	<b>Alfred, Ketrin, Elgar, David, Hennifent, Alex, McCarthy, David and Phillips, Alexandra</b> EVENT DEBRIEF: DESIGN COLLISION WEEKEND	<b>Brett, Alyssa</b> MATHEMATICAL MODELING OF INFECTIOUS DISEASES VIA ORDINARY DIFFERENTIAL EQUATIONS
1600	<b>Bernier, Bethany</b> PERCEPTIONS OF INDIGENOUS IDENTITY IN RELATION TO CULTURAL PARTICIPATION	<b>1614</b> <b>Hamilton, Melissa</b> POPULATION VARIATION IN THREESPINE STICKLEBACK VERTEBRA NUMBER	<b>Collier, Tim</b> THE MODERN DEATH: EXPLORING CHANGING PERCEPTIONS OF DEATH IN A RURAL NEWFOUNDLAND COMMUNITY	<b>Williams, Jenelle</b> BASICS OF MACHINE LEARNING AND AN APPLICATION OF LOGISTIC REGRESSION
1615	<b>King, Ryan</b> PAINTING TO THE BEAT: DO BINAURAL BEATS INCREASE FLOW AND THEREBY INCREASE ART THERAPY EFFECTIVENESS?	<b>1634</b> <b>Kinden, Wynny</b> PREPARATION AND CHARACTERISATION OF A 2, 4-DINITROPHENYL ETHER OF METHOXYPOLY (ETHYLENE GLYCOL): SYNTHETIC ROUTES AND KINETICS OF A MODEL TIME-RELEASE HERBICIDE	<b>King, Andrew</b> INFORMAL MOUNTAIN BIKE TRAILS AND THE BENEFITS OF ADAPTIVE CO-MANAGEMENT IN THE HUMBER VALLEY	<b>Dover, Jennifer</b> BASICS OF MACHINE LEARNING AND AN APPLICATION OF PERCEPTRON LEARNING
1630	<b>Lee, Ryan</b> THE EFFECT OF BINAURAL BEATS ON TASTE PERCEPTION		<b>McInnis, Rory</b> ROOFTOP GARDENING IN CORNER BROOK: CREATING FOOD SECURITY WITHIN THE CITY	<b>Gibbons, Dominique</b> GAUSSIAN MOAT
1645			<b>Osborne, Ryan</b> HYDRAULIC FRACTURING IN NEWFOUNDLAND AND LABRADOR: POTENTIAL HEALTH RISKS OF LIFTING THE MORATORIUM	<b>Mukhopadhyay, Malhar</b> MATROIDS AND THEIR REPRESENTATIONS
1700	<b>Atrium: Kathleen Elliot and Catherine Moret – “Gym Class”</b>			
	Poster Session Nutrition Break	Poster Session Nutrition Break	Poster Session Nutrition Break	Poster Session Nutrition Break
1715	Poster Session Nutrition Break	Poster Session Nutrition Break	Poster Session Nutrition Break	Poster Session Nutrition Break

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	VART/ENGL G Curtis	ENVS I Warkentin	EVST/SOCIAL-CULTURAL S Decker	MATH/PHYS J Howell
1730	Hobden, Charlotte May THE PERCEPTION OF COLOUR	Poster Session Nutrition Break	Poster Session Nutrition Break	Shepperd, Nathan PHYSICS BEYOND STANDARD MODEL IN ELECTRON PARITY VIOLATING SCATTERING
1745		Lake, Nickolas GROWTH AND MORPHOLOGICAL DEVELOPMENT OF EASTERN WHITE PINE ALONG AN ELEVATION GRADIENT IN WESTERN NEWFOUNDLAND	Barlett, Owen VIABILITY OF PRESCRIBED BURNING AS A LOW- COST AGRICULTURAL LAND CONVERSION TOOL IN BOREAL REGIONS	Ruth, Dylan DETERMINATION OF DEBYE TEMPERATURES
1800	Torres, Lucia (Faune) Ibarra ELEMENTS OF FICTION: YOU BELONG HERE	1807	Walker, Ryan WOLVES IN NEWFOUNDLAND: A SWOT ANALYSIS	Pennell, Jamie CHROMATIC POLYNOMIALS
1815		Manuel, Vanessa THE EFFECTS OF ALTERED FOREST SUCCESSION ON NOCTURNAL INSECT COMMUNITIES IN AREA OF GROS MORNE NATIONAL PARK WITH HISTORIC HYPERABUNDANT MOOSE POPULATIONS	Leblanc, Olivia ADDRESSING THE LACK OF INTERSECTIONALITY IN ENVIRONMENTAL EDUCATION THEORY AND PRACTICE: A COMPARATIVE CASE STUDY OF THE UNIVERSITY OF BRITISH COLUMBIA AND GRENFELL CAMPUS	Sheppard, Nathan SUPERCONDUCTORS: WHAT THEY ARE AND WHAT THEY DO
1830			ENVP 6522 Group 1 BEYOND VISION 20/20: ASSESSING SUSTAINABILITY AT GRENFELL CAMPUS, MEMORIAL UNIVERSITY OF NEWFOUNDLAND	Pittman, Brittany WATCHMAN'S WALK CRITICALITY AND RELATED TOPICS
1845			ENVP 6522 Group 2 APPLYING THE TELOS METHOD AS A TOOL FOR ASSESSING SUSTAINABLE DEVELOPMENT IN THE CITY OF CORNER BROOK	Randell, Jennifer A CHIP-FIRING VARIANT ON PATHS
<b>FINE ARTS Building</b>				
1900	SILENT ART AUCTION			
2000	Brooke Adams, Jen Fleming, Leah Dawn Hiscock, Isabelle Lacombe, Christian Morgan, Keelan Purchase, Mathew Ralph, Michaela Sheldon, Shealyn Varnes, Mathew Wheadon. Featuring students from Deakin University in Melbourne Australia: Josh Black, Nicole Esposito, Lauren Rowe RING ROUND THE MOON, BY JEAN ANOUIH, ADAPTED BY CHRISTOPHER FRY			

## Poster Presentations:

**Andrews, Lee-Ann *Psychology***

TREATMENT OF POSTTRAUMATIC STRESS DISORDER: SELECTIVE SEROTONIN REUPTAKE INHIBITORS COMPARED TO COGNITIVE BEHAVIORAL THERAPY

**Beals, Kayla & Skinner, Tori *Environmental/General Science***

EPIPHYTIC CYANOLICHEN AND AIR POLLUTION: EFFECTS ON A REGIONAL SCALE

**Beals, Kayla & Skinner, Tori *Environmental/General Science***

USING HERBARIUM COLLECTIONS AND DATABASES: INVESTIGATING THE IMPACTS OF AIR POLLUTION ON LICHENS

**Bilodeau, Kady *Resource Management***

ATLANTIC SALMON MANAGEMENT STRATEGIES IN NL

**Brothers, Brianna *Psychology***

NEW DIRECTIONS IN UNDERSTANDING THE ETIOLOGY OF AUTISM SPECTRUM DISORDER

**Budgell, Dillon *Environmental Studies***

CANADIAN WINE INDUSTRY AND CLIMATE CHANGE

**Burton, Daniel *Psychology***

DISTRIBUTED LEADERSHIP DYNAMICS IN COMPETITIVE GAMING AND ESPORTS

**Collins, Megan *Psychology***

AT HER FINGERTIPS: THE EFFECTS OF SOCIAL MEDIA ON THE DEVELOPMENT OF EATING DISORDERS AMONG WOMEN

**Flores, Katherine *Environmental Science***

POPULATION GENETICS IN *ERIODERMA PEDICELLATUM*

**Fowlow, Jenelle *Psychology***

CHILD PROTECTION SOCIAL WORKERS: UNIQUE RISK AND RESILIENCE

**Gillam, Amber *Psychology***

WHAT IS DIABULIMIA?: RISK FACTORS, AND TREATMENT IN TYPE 1 DIABETICS

**Gillard, Kelsey *Psychology***

PHARMACOTHERAPY AND COGNITIVE THERAPY TREATMENTS OF PEDIATRIC BIPOLAR DISORDER: A REVIEW OF THE LITERATURE



**Hall, Howard *Psychology***

THE IMPACT OF SMARTPHONE USE ON PSYCHOLOGICAL FUNCTIONING

**Hann, Shane *Resource Management***

VARIATION IN SKULL SIZE OF BLACK BEARS FROM DIFFERENT HUNTING MANAGEMENT AREAS IN NL

**Hillier, Daniel *Environmental Studies***

STUDENTS TEACHING STUDENTS: FOSTERING SUSTAINABILITY IN THE ENVIRONMENTAL LEADERS OF TOMORROW

**Keeping, Nathan *Psychology***

THE IMPORTANCE OF SOCIAL SUPPORT IN MEDIATING THE SYMPTOMS OF DEPRESSION AND ANXIETY IN QUEER MEN

**Mgabe, Bumo & Leandre, Margarett *Environmental/General Science***

TEMPERATURE EFFECTS ON FIRST BLOOMING DATES OF WILDFLOWERS IN NEWFOUNDLAND AND LABRADOR

**Mgabe, Bumo & Leandre, Margarett *Environmental/General Science***

USE OF HERBARIUM SPECIMENS, PHOTOGRAPHS AND FIELD OBSERVATIONS TO LEARN ABOUT PLANT PHENOLOGY AND CLIMATE CHANGE IN TEMPERATE AND TROPICAL REGIONS

**Moores, Taylor *Psychology***

MINDFULNESS AS AN INTERVENTION IN SUBSTANCE-RELATED DISORDERS

**Moret, Catherine & Elliott, Kat *Visual Art***

CHECKPOINT CHEST

**Ogden, Kara *Environmental Studies***

POTENTIAL COSTS AND BENEFITS OF CONTAINER BASED AQUACULTURE FOR NL

**Park, Felicia *Psychology***

FACTORS THAT INFLUENCE SPORT PEAK PERFORMANCE

**Park, Lewis *Resource Management***

AGRICULTURAL DRAINAGE IMPACTS ON WATER CHEMISTRY OF TWO HUGHES BROOK PONDS

**Payne, Mercedes *Psychology***

FACTORS ALTERING OXYTOCIN FUNCTIONING

**Regular, Kendra *Psychology***

WHERE IS THE BEST PLACE TO DIE? DIFFERENCES IN END-OF-LIFE CARE

**Ropson, Brittany & Hancock, Janine *Environmental/General Science***

USING SPORE MORPHOLOGY TO CONFIRM *HEMIMYCENA* SPECIES

**Ropson, Brittany & Hancock, Janine *Environmental/General Science***

FUNGAL IDENTIFICATION USING MORPHOLOGICAL CHARACTERS AND MOLECULAR DATABASES

**Samson, Alexandria *Psychology***

PSYCHOTHERAPY COMPARED TO PHARMACOTHERAPY AS TREATMENT FOR BORDERLINE PERSONALITY DISORDER

**Strowbridge, Andrew *Resource Management***

FIRE AND CLIMATE IN CENTRAL BC

**Taylor, Ashleigh *Environmental Studies***

CHALLENGES IN MOVING TOWARDS SUSTAINABLE DEVELOPMENT FOR NEWFOUNDLAND AND LABRADOR FISHERIES

**Taylor, Zach *Environmental Studies***

ENERGY TRANSITION ON GRENFELL CAMPUS WITH A FOCUS ON WIND ENERGY

**Welsh, Megan *Psychology***

REDUCING ACCULTURATIVE STRESS EXPERIENCED BY INTERNATIONAL STUDENTS