

The background image is a photograph of a sunset or sunrise over a body of water. The sun is a bright, glowing orb in the upper center, partially obscured by soft, grey clouds. The sky transitions from a pale yellow near the sun to a darker, muted blue-grey at the top. In the foreground, the water is dark and textured, with several large, jagged ice formations or icebergs floating. The ice has a rough, crystalline appearance. The overall mood is serene yet somber, reflecting the 'cold climates' mentioned in the title.

# **Breaking the Ice: Toxicology in Cold Climates**

**9<sup>th</sup> Annual SETAC Prairie Northern Chapter  
Meeting and Conference**

**June 4 – 5<sup>th</sup>, 2018**

**University of Alberta**



9<sup>th</sup> Annual Chapter Meeting of SETAC Prairie-Northern

## “Breaking the Ice: Toxicology in Cold Climates”

Monday, June 4<sup>th</sup>, 2018

1:00 pm – 4:30 pm

**Short Course - “The Biotic Ligand Model: Theory, Mechanisms, and Applications”**

**Dr. Jim McGeer** (Wilfrid Laurier University)

**Dr. Chris Glover** (Athabasca University)

**Location:** CCIS 1-140, University of Alberta (See Map)

7:00 pm – 11:00 pm

**Tox on Tap: “Challenges for Polar Bears – Inside and Out”**

**Speaker: Dr. Andrew Derocher** (University of Alberta)

**Location:** Faculty Club Lower Bar, University of Alberta (See Map)

\* Food and drink available for purchase \*





## 9<sup>th</sup> Annual Chapter Meeting of SETAC Prairie-Northern

# “Breaking the Ice: Toxicology in Cold Climates”

**Tuesday, June 5<sup>th</sup>, 2018 – TELUS Centre Atrium and Room TEL-150**

**8:30 am – 8:50 am**

Registration (Poster Set-Up)

**8:50 am – 9:00 am**

Opening Remarks: Dr. Mark Hanson & Dr. Greg Goss

**9:00 am – 9:30 am**

**PLENARY: Dr. Jim McGeer, Wilfrid Laurier University**

“Establishing thresholds for the effects of inorganic contaminants in northern Canadian ecosystems”

**9:30 am – 9:50 am**

**Bogart, S. (University of Lethbridge)**

“Potential criteria for the protection of aquatic life for water hardness using the percent change in water hardness and Ca:Mg ratio from background”

**9:50 am – 10:10 am**

**Klemish, J. (University of Lethbridge)**

“The interactive effect of sediment bound copper and an artificially created forest fire runoff on *Hyaella azteca*”

**10:10 am – 10:30 am**

**Delompré, P. (University of Alberta)**

“The osmotic effect of the hyper-saline hydraulic fracturing fluid on rainbow trout, *Oncorhynchus mykiss*”

**COFFEE BREAK (10:30 am – 11:00 am)**

**11:00 am – 11:20 am**

**Hanson, M. (University of Manitoba)**

“An ecological risk assessment for thiamethoxam in Canadian surface waters: a weight-of-evidence approach”

**11:20 am – 11:40 am**

**Miller, C. (University of Lethbridge)**

“Effects of early life-stage exposure to tebuconazole on the reproductive physiology of adult zebrafish (*Danio rerio*)”

**11:40 am – Noon**

**Mary Reiley – Society of Environmental Toxicology and Chemistry  
SETAC North America and SETAC Global Initiatives**



## LUNCH BREAK (Noon – 1:00 pm)

**1:00 pm – 1:30 pm** **PLENARY: Rainie Sharpe, Golder Associates**  
 “Environmental monitoring in Canada’s north: thou shalt versus thou should”

**1:30 pm – 1:50 pm** **Baldwin, N. (University of Saskatchewan)**  
 “Sublethal effects of chronic exposure to chlorpyrifos on *Xenopus laevis* tadpoles”

**1:50 pm – 2:10 pm** **Razmara, P. (University of Lethbridge)**  
 “The effect of copper nanoparticles on olfaction in rainbow trout (*Oncorhynchus mykiss*)”

**2:10 pm – 2:30 pm** **Gault, I. (University of Alberta)**  
 “Oil sands process-affected water: toxicity attribution and evaluating ageing as a remediation strategy”

## COFFEE BREAK (2:30 pm – 2:50 pm)

**2:50 pm – 3:10 pm** **Everitt, S. (University of Lethbridge)**  
 “Acute lethality of sediment-bound diluted bitumen to freshwater amphipods (*Hyaletella Azteca*)”

**3:10 pm – 3:30 pm** **Phillips, N. (University of Alberta)**  
 “Impacts of *in vitro* exposure to oil sands process-affected water and its fractions on mammalian immune cells”

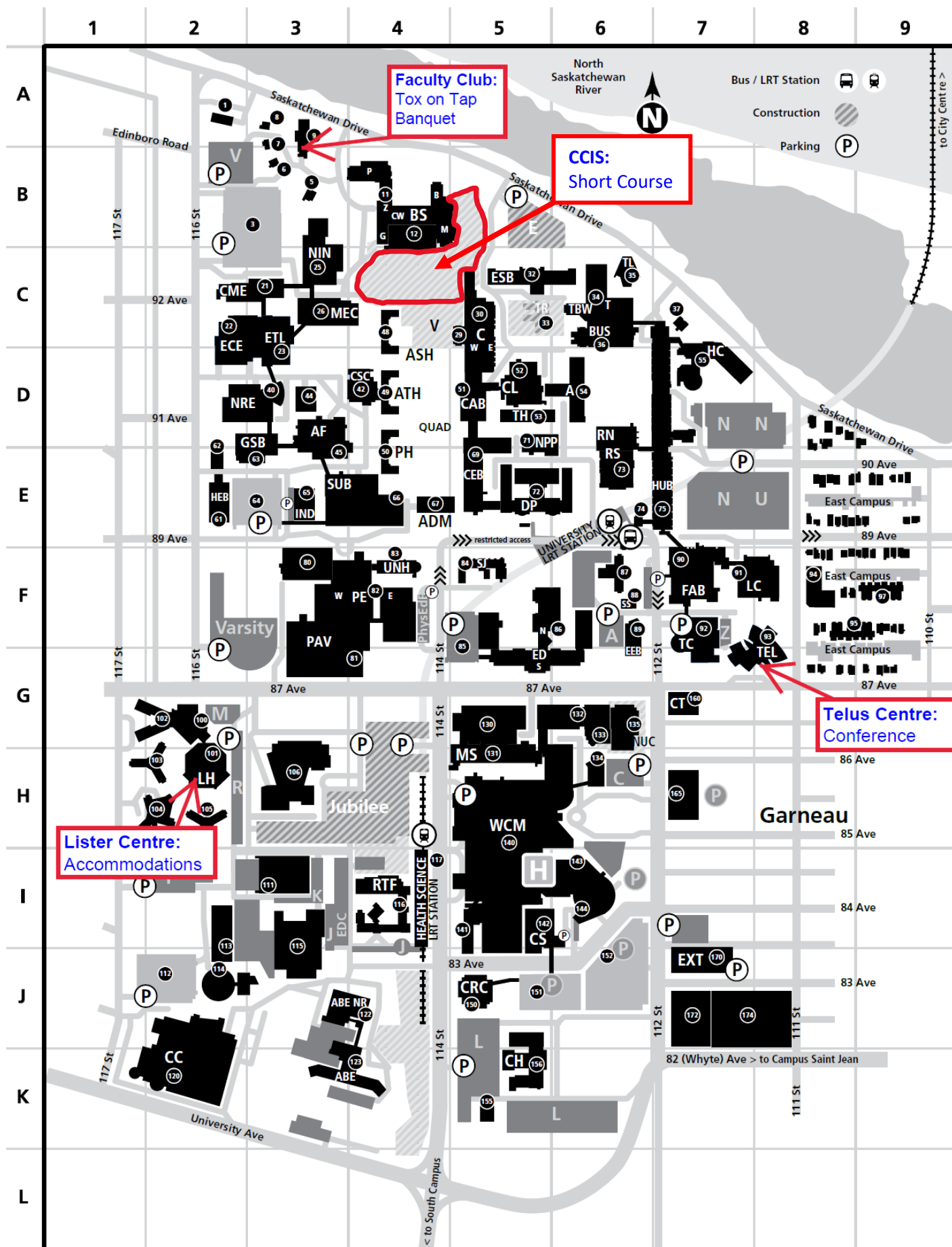
**3:30 pm – 3:50 pm** **Bujaczek, T. (Grant MacEwan University)**  
 “Microplastic pollution in the urbanized North Saskatchewan River”

**3:50 pm – 4:10 pm** **He, H. (University of Alberta)**  
 “Salts and Oil: assessing the environmental toxicity of hydraulic fracturing flowback and produced water”

## SETAC PNC Annual General Meeting (4:10 pm – 4:30 pm)

## Poster Social (4:45 pm – 6:00 pm)

## Banquet Reception, Dinner and Awards (6:30 pm) – Faculty Club, University of Alberta





# Building List

Building Name	Bldg #	Map #	Bldg Abbrev	Building Name	Bldg #	Map #	Bldg Abbrev
Aberhart Centre	123	K3	ABE	Markin / CNRL Natural Resources			
Aberhart Services	122	J3		Engineering Facility	40	D3	NRE
Administration	67	E4	ADM	Materials Management	111	I3	
Agriculture / Forestry Centre	45	D3	AF	Mazankowski Heart Institute	144	I6	
Alumni House	1	A2		Mechanical Engineering	26	C3	MEC
Arts and Convocation Hall	54	D6	A	Medical Sciences	131	H5	MS
Assiniboia Hall	48	C4	ASH	NANUC (Nat'l High Field Nuclear			
Athabasca Hall	49	D4	ATH	Magnetic Resonance Centre)	133	G6	NANUC
Balmoral Centre		6820-116 st		National Institute for Nanotechnology	25	C3	NINT
Biological Sciences Centre	11	B4	BS	Newton Place	165	H7	
BS B—Botany Wing				North Power Plant (Graduate Students' Centre)	71	E5	NPP
BS CW—Centre Wing				Old St Stephen's College (Alberta Community Dev)	87	F6	
BS G—Genetics Wing				Pembina Hall	50	E4	PB
BS M—Microbiology Wing				Phillips Services Building	113	I2	
BS P—Psychology Wing				Physical Educ and Rec Centre, Van Vliet	82	F3	PE
BS Z—Zoology Wing				PE E—East Wing			
Business	36	C6	BUS	PE W—West Wing			
Butterdome (Universiade Pavillion)	81	G3	PAV	RCMS (Physical Plant Shop)	62	E2	
Cameron Library	52	D5	CL	Research Transition Facility	116	I4	RTF
Campus Tower	160	G7	CT	Ring House 1	5	B3	
Canadian Blood Services	150	J5	CRC	Ring House 2	6	B3	
Centennial Centre for Interdisciplinary Science	12	B4		Ring House 3	7	B3	
Central Academic Building (CAB)	51	D5	CAB	Ring House 4	8	A3	
CHA Parkade	152	J6		Rutherford House	37	C7	
Chemical / Materials Engineering	21	C3	CME	Rutherford Library, North and South	73	E6	RN, RS
Chemistry Centre, Gunning / Lemieux	30	C5	C	Saint Joseph's College	84	F5	SJ
C E—East Wing				Saint Stephen's College	88	F6	SS
C W—West Wing				Schäffer Hall	102	G2	
Childcare Centre	155	K5		South Field Car Park	112	J2	
Civil / Electrical Engineering	69	E5	CEB	Triffo Hall (Killam Centre for Advanced Studies)	53	D5	TH
Clare Drake Arena	80	F3		Stadium Car Park	64	E3	
Clinical Sciences	142	I5	CS	Structural Engineering Lab, Morrison	44	D3	
College Plaza	172	J7		Students' Union Building (SUB)	66	E4	SUB
Computing Science Centre	42	D4	CSC	TELUS Centre	93	F8	TEL
Corbett Hall	156	K5	CH	Thermal Energy Storage	114	J2	
Cross Cancer Institute (WW)	120	K2	CC	Timms Centre for the Arts	92	F7	TC
Dentistry / Pharmacy Centre	72	E5	DP	Timms/TELUS Car Park	92	F7	
Earth Sciences	32	C5	ESB	Tory Lecture Theatres	35	C6	TL
East Campus Village Blk 2	95	F8		Tory, Breeze Way	34	C6	TBW
East Campus Village Blk 4	97	F9		Tory, HM	34	C6	T
ECERF Car Park	22	D3		Universiade Pavillion (Butterdome)	81	G3	PAV
Education Car Park	85	G5		University Hall	83	F4	UNH
Education Centre, North and South	86	F6	ED	University Hospitals Outpatient Residence	141	I5	
Electrical & Computer Engineering				University Hospitals Parkade	151	J5	
Research Facility	22	D2	ECE	University Terrace	170	J7	EXT
Emergency Wing (WC Mackenzie Health				Van Vliet Physical Educ and Rec Centre	82	F3	PE
Sciences Centre)	143	I6		V Wing	29	C5	
Engineering Teaching				Walter Mackenzie Health Sciences Centre	140	H5	WCM
Learning Complex	23	D3	ETL	Windsor Car Park	3	C2	
Environmental Engineering	89	F6	EEB	Windsor Park Plaza	174	J7	
Faculty Club	9	A3		Zeidler Ledcor Centre	134	G5	
Fine Arts Centre	90	F7	FAB				
Foote Field		11601-68 ave					
General Services	63	E3	GSB				
Health Research Innovation Facility - East	135	G6					
Health Sciences Centre, WC Mackenzie	140	H5	WMC				
Heating Plant	115	I3					
Henday Hall	105	H2					
Heritage Medical Research Centre	132	G6					
HUB International	75	E7	HUB				
Human Ecology	61	E2	HEB				
Humanities Centre	55	D7	HC				
Industrial Design Studio	65	E3	IND				
International House	94	F8					
Jubilee Auditorium, Northern Alberta	106	H3					
Katz Group - Rexall Centre for Pharmacy							
and Health Research (KGR)	130	G5					
Kelsey Hall	103	H2					
Law Centre	91	F8	LC				
Lister Centre	101	H2	LH				
LRT (University Station)	74	E6					
MacKenzie Hall	104	H2					

## Not shown on map:

Augustana Campus	Camrose, AB	AU
Campus Saint-Jean	8406, rue Marie Anne Gaboury (91 st)	FSJ
Enterprise Square	10230 Jasper Ave	ESQ

