



Science
Atlantic  Atlantique

2013
Student Awards
Yearbook

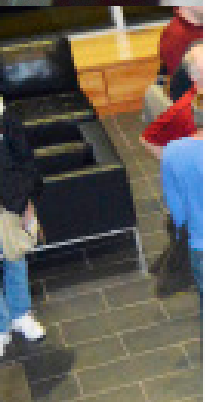


Table of Contents

Science Atlantic Member Institutions	ii
Introduction	iii
Science Atlantic Undergraduate Physics and Astronomy Conference (AUPAC)	1
23rd Science Atlantic Aquaculture and Fisheries Conference	4
43rd Science Atlantic Biology Conference	7
Science Atlantic Environment Conference	11
37th Annual Science Atlantic Undergraduate Psychology Conference	15
ChemCon '13: 38th Annual Science Atlantic-CIC Chemistry Conference	18
Science Atlantic Mathematics, Statistics, and Computer Science Conference	28
63rd Atlantic Universities Geoscience Conference (AUGC)	33
Science Atlantic 2013 Sponsors	37

The mission of Science Atlantic is to advance post-secondary science education and research in Atlantic Canada by:

- *Providing opportunities that foster and enrich students,*
- *Supporting and inspiring researchers and educators, and*
- *Using our collective voice to address important regional science issues.*

Science Atlantic Member Institutions

Acadia University
Cape Breton University
Crandall University
Dalhousie University
Dalhousie Agricultural Campus
Grenfell Campus (Memorial University)
Memorial University
Mount Allison University
Mount Saint Vincent University
Natural Sciences & Engineering Research Council of Canada
Saint Mary's University
St. Francis Xavier University
St. Thomas University
Université de Moncton
University of New Brunswick, Fredericton
University of New Brunswick, Saint John
University of Prince Edward Island

Introduction

Of the close to 4,000 students who have attended our nine annual academic student conferences over the last five years, approximately 350 have been honoured for outstanding research presentations. This Yearbook gathers the 91 talented individuals recognized in 2013.

Each conference has a unique quality, whether it's a field trip to the Yava sandstone lead deposit coordinated during the AUGC (Atlantic Universities Geoscience Conference), a programming competition for computer science students, or an industry wine and cheese at the Environment Conference.

The conferences share a common element as well: they provide students with what is often their first opportunity to present their research to an audience of peers and scientists beyond their home institution. This experience has been described by students as invaluable, eye-opening, and rewarding.

The success of our conferences is due to many people and organizations. First of all, thank you to our 2013 sponsors, listed on pages 37-38. Without your support, these awards and conferences would not be possible. Secondly, grateful appreciation is extended to the many faculty members and students who volunteer their time to organize each year's events. And finally, thank you to the member institutions of Science Atlantic for your ongoing support.

I hope you enjoy this Yearbook commemorating the outstanding Atlantic science students of 2013.



Lois Whitehead
Executive Director

About the Science Atlantic Science Communication Award

The Science Communication Award is offered at each of the nine annual Science Atlantic-sponsored student conferences. The prize is awarded to the student who is best able to communicate a science topic to his or her peers. The winners may be selected by a judging committee or through a "People's Choice" popular vote by attendees at the conference.

The award is sponsored by Canadian Science Publishing, publisher of the NRC Research Press journals, a suite of international, peer-reviewed scientific and technical journals established in 1929.

About the Science Atlantic Undergraduate Research Award

The Science Atlantic Undergraduate Research Award is presented to the student or students giving the best research presentation(s) at each annual Science Atlantic conference. Criteria for the award are quality of abstract, presentation clarity and organization, scientific merit, the student's overall knowledge and response to questions, and his/her potential to pursue graduate studies and research.

This award is sponsored by Science Atlantic.

Science Atlantic Undergraduate Physics and Astronomy Conference (AUPAC)

Université de Moncton, Moncton, NB

February 1-3, 2013

Science Atlantic Undergraduate Research Award



1st Place

David Lake

Dalhousie University

Numerical simulations of helicoidal states in a thin film



2nd Place

John Niven

Dalhousie University

Electrical properties of carbon nanotube yarns



3rd Place

Patricia Oliver

Dalhousie University

Improving the efficiency and manufacturability of organic solar cells using lamination techniques

Science Atlantic Science Communication Award

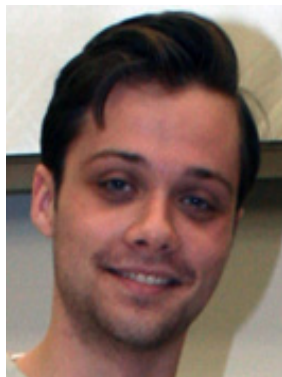


Logan Montgomery

University of Prince Edward Island

Analyzing the effects of phaseless CT images on cancer treatment plans

ACEmat Award in Computational Modeling of Materials



Taylor Dunn

University of Prince Edward Island

Polymer translocation dynamics through a nanopore

About the ACEmat Award

The ACEmat Award in Computational Modeling of Materials is presented at three Science Atlantic student conferences each year: Chemistry, Mathematics, Statistics and Computer Science, and Physics and Astronomy. The Award is given for the best undergraduate presentation (oral or poster) using computational methods to study systems of interest to materials science.

The award is sponsored by the ACEnet Institute for Materials Modeling and Simulation (ACEmat), which is dedicated to activities that support the materials modeling research community in Atlantic Canada. ACEmat is a cooperative effort with ACEnet, the high performance computing consortium that provides computational facilities to university researchers in the Atlantic Provinces.

LamdaGuard Photonique/Photonics Award



1st Place

Nicolas Pierre LeBlanc

Université de Moncton

Photon-photon scattering in a vacuum acting as a birefringent medium



2nd Place

Mathew Britton

Dalhousie University

Time-resolved optical investigations of InAs quantum dots within a dielectric microcavity for quantum information applications

Logan Montgomery, Taylor Dunn, Mathew Britton, John Niven, David Lake, Patricia Oliver, Nicolas Pierre LeBlanc



Congratulations to AUPAC 2013 winners !

(photo credit: Roby Gauthier)

23rd Science Atlantic Aquaculture and Fisheries Conference

Acadia University, Wolfville, NS

March 15-17, 2013

Science Atlantic Science Communication Award



Jordan Poley

University of Prince Edward Island

*Molecular pathways involved in sea lice (*Lepeophtheirus salmonis*) resistance to chemotherapeutants*

Science Atlantic Undergraduate Research Award



1st Place: Sponsored by Clearwater/Atlantic Elver Fishery

Adam Harding

Dalhousie University

*To feed or flee? Effect of predation-risk cues on the foraging activity of *Strongylocentrotus droebachiensis**



2nd Place: Sponsored by Cooke Aquaculture

Ryan Horricks

Dalhousie University

*Determining the genetic basis for the effects of intra-specific competition on growth of *Salvelinus alpinus* raised in an aquaculture setting*



3rd Place: Sponsored by Valox

Daniel Oldford

Cape Breton University

*Life history parameterization for sustainable fisheries: balancing size at maturity and size at castration in parasitized populations of the waved whelk (*Buccinum undatum*)*

Graduate Research Awards

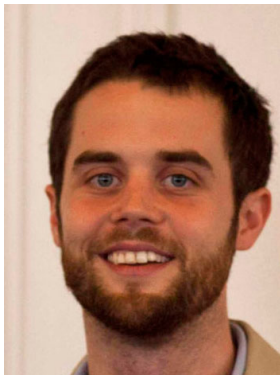


1st Place: Sponsored by Clearwater/Novartis Animal Health Canada

Jordan Poley

University of Prince Edward Island

*Molecular pathways involved in sea lice (*Lepeophtheirus salmonis*) resistance to chemotherapeutants*



2nd Place: Sponsored by Canadian Centre for Fisheries Innovation

Gregory Britten

Dalhousie University

*Trends in the productivity of North Atlantic cod (*Gadus morhua*)*



3rd Place (tie): Sponsored by Skretting

Jessica Fry

Memorial University

*The impact of ozonation of Atlantic cod (*Gadus morhua*), Atlantic salmon (*Salmo salar*), and rainbow trout (*Oncorhynchus mykiss*) eggs on hatching success and larval growth and survival*



3rd Place (tie): Sponsored by Skretting

Danielle Quinn

Acadia University

*Smallmouth bass (*Micropterus dolomieu*) dispersal in LaHave River, Nova Scotia, and evidence of change in native fish assemblages*



© Megan Colwell

(back row) Ryan Horricks, Adam Harding, Jordan Poley, Gregory Britten, Daniel Oldford, Trevor Avery (Aquaculture and Fisheries Chair)
(front row) Jessica Fry, Danielle Quinn

43rd Science Atlantic Biology Conference

Acadia University, Wolfville, NS

March 15-17, 2013

Oral Presentation Award



1st Place

Abigail White

Mount Allison University

Duration of stay and movements of Semipalmated Sandpipers during migratory stopover in the upper Bay of Fundy



2nd Place

Julie Colpitts

Acadia University

Biological Evaluation of Metal-Containing Compounds to Assess Potential for Use in Photodynamic Therapy



3rd Place

Katie Kowarski

Dalhousie University

*The effects of remote biopsy sampling on long-finned pilot whales (*Globicephala melas*) in Pleasant Bay N.S.*

Poster Presentation Award



1st Place

Shane Rajaraman

Saint Mary's University

Effectiveness of Halifax Produced FDG in the PET/CT Evaluation of Patients with Suspected Lung Cancer and Impact on Patient Management



2nd Place

Yueyang Zhang

University of New Brunswick, Saint John

Some Like it Hot!- The Critical Thermal Maximum (CTMax) and hematology of shortnose sturgeon (Acipenser brevirostrum) acclimated to three temperatures.



3rd Place

John Loggie

Mount Allison University

Intra(Sub)Specific Differentiation of Migratory Alaskan Dunlin, Calidris alpina

Canadian Botanical Association Award



Oral

Michelle MacDonald

University of Prince Edward Island

*Assessing pathogenicity and chemical sensitivity of *Fusarium* spp. infecting carrots*



Poster

Simon Lay

Dalhousie University

*Seasonality of a Nova Scotian rockweed (*Ascophyllum nodosum*) associated community and the potential impacts of rockweed harvesting*

About the Botany Award

The Canadian Botanical Association offers an award for the best presentation by an undergraduate student in the discipline of botany at the annual undergraduate Biology conferences in each of the five regions of Canada: Atlantic region, Québec, Ontario, Prairies and Territories, and British Columbia. The purpose of this recognition is to encourage undergraduate students to pursue graduate research in botany and to enhance the visibility of the Canadian Botanical Association.

The CBA/ABC serves as the national organization for botanists in Canada, including professional botanists at universities, colleges, schools, government and industry as well as students, technicians and amateurs.

Science Atlantic Science Communication Award

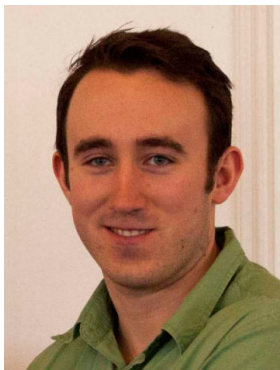


Oral

Feng Tang

University of New Brunswick, Saint John

Body condition of juvenile American lobsters, Homarus americanus, living on mud and cobble bottom



Poster

Jason McConnery

Dalhousie University

The Mechanism of [10]-Gingerol-induced Cytotoxicity in Breast Cancer Cells

Katie Kowarski, Abigail White, Simon Lay, Shane Rajaraman,
Jason McConnery, Yueyang Zhang, Michelle MacDonald, John Loggie, Feng Tang, Alyre Chiasson (Biology Chair)



Biology Conference winners

Science Atlantic Environment Conference

Acadia University, Wolfville, NS

March 15-17, 2013

Science Atlantic Undergraduate Research Award



Oral, 1st Place

Jacqueline Carverhill

Mount Allison University

Unearthing the secret to lower agricultural greenhouse gas emissions: quantifying nitrogen and carbon emissions from crop residue degradation



Oral, Honourable Mention

Olivia Kester

St. Francis Xavier University

Methane Soil Dynamics in the Taiga Region of Cape Breton



Poster, 1st Place

Tiffany Vass

Dalhousie University

What is the significance of "community" wind energy? The influence of local project initiation, participation, and investment on local perceptions



Poster, Honourable Mention

Garry Dart

Memorial University of Newfoundland

Factors Affecting Plant Re-colonization on Quarried Limestone Barrens Habitat on the Great Northern Peninsula, Newfoundland

Science Atlantic Science Communication Award



Oral, 1st Place

Adam Godfrey

Acadia University

Impact of salt marsh reclamation on mercury fate and biogeochemistry



Oral, Honourable Mention

Conor Leggott

University of Prince Edward Island

Networks, Identity, and Resilience in an Island Watershed Group



Poster, 1st Place

Heather Crozier

Dalhousie Faculty of Agriculture

The Toxicological effects of insecticides on Chrysococcus auratus

K.C. Irving Environmental Science Centre Award



Chelsea Fougere

St. Francis Xavier University

Influence of Rosa rugosa on the coastal community of Brier Island, NS

About the K.C. Irving Environmental Science Centre Award

The K.C. Irving Environmental Science Centre Award is awarded at the annual Science Atlantic Environment Conference for the best oral or poster presentation of undergraduate student research relating to the flora or fauna of the Acadian Forest region. (Note: for the purpose of this award, student research on Boreal Forest in Newfoundland and Labrador will be eligible as there is a large overlap of species.)

The award is sponsored by the K.C. Irving Environmental Science Centre at Acadia University. The K.C. Irving Environmental Science Centre and Harriet Irving Botanical Gardens is open to 365 days a year and has been since September 14 2002.

Science Atlantic Best Graduate Presentation Award



Catherine MacNeil

University of Prince Edward Island

Youth livelihood strategies and environmental decision-making in the humid forest zone of Cameroon

Heather Crozier, Catherine MacNeil, Chelsea Fougere, Jacqueline Carverhill, Daniel Rainham (Environment Chair)



37th Psychology Science Atlantic Conference

Saint Mary's University, Halifax, NS

May 7-8, 2013

Science Atlantic Undergraduate Research Award



Oral (tie)

Amy Silver

Dalhousie University

Does Reward Magnitude Moderate the Effects of Ownership?



Oral (tie)

Timothy Wingate

Mount Allison University

Procrastination & Task Delay: Why Tomorrow is Always the Busiest Day of the Week



Poster (tie)

Jillian Glasgow

Acadia University

When you need a hand: A model of attachment and support seeking in romantic relationships



Poster (tie)

Anika Needham-Reece

Mount Saint Vincent University

The Effects of Text Language Knowledge and Visual Cue on Homophone Identification Skills

Karen Nicholson Award in Neuropsychology



Poster

Hiliary Martin

Memorial University

The role of Bcl-x in embryonic cortical development

About the Karen Nicholson Award in Neuropsychology

This award is given in honour of Karen Nicholson to an undergraduate student who shows promise in the field of Neuropsychology.

Karen was an active member of the APICS (now Science Atlantic) Psychology Committee. After a short but promising research career, Karen passed away in November 2007, after a courageous battle with cancer. Karen will be remembered as a committed teacher and a talented and energetic researcher. This award is sponsored anonymously.

Science Atlantic Science Communication Award



Oral

Emily Ready

St. Thomas University

Lawyers' Beliefs and Accuracy of Knowledge Pertaining to Eyewitness Research

Emily Ready, Anika Needham-Reece, Hiliary Martin, Timothy Wingate, Amy Silver, Jillian Glasgow



Psychology Conference winners

ChemCon '13: 38th Annual Science Atlantic-CIC Chemistry Conference

Memorial University of Newfoundland, St. John's, NL
May 21-23, 2013

Hugh Anderson Memorial Award: Best Overall Undergraduate Presentation



Ashley Robinson

Saint Mary's University

*Electrochemical-Surface Enhanced Raman Spectroscopy (E-SERS) of
Uric Acid: A Potential Rapid Diagnostic Method for Early Preeclampsia
Detection*

About the Hugh Anderson Memorial Award

In 2013, the top undergraduate presentation (oral or poster) at the annual Chemistry Student Conference (ChemCon) was sponsored in honour of Hugh Anderson, a long time professor and professor emeritus at Memorial University.

The award allows the winning student to attend the annual national conference of the Canadian Society for Chemistry (CSC) by covering the expenses associated with registration, travel and accommodations.

Science Atlantic Undergraduate Research Award



Robie Hennigar

Acadia University

Photophysical Investigation of Coordination Complexes for Application in Photodynamic Therapy

Science Atlantic Science Communication Award



Oral

Julie Colpitts

Acadia University

Biological Evaluation of Coordination Complexes as Photosensitizers for Photodynamic Therapy



Poster

Lynsay Thurber

Acadia University

Towards an Improved Passive In-Situ Sampler for Studying Trace Elements in Fresh Waters

ACEmat Award in Computational Modeling of Materials



Victoria Grandy

Memorial University of Newfoundland

Vibrational Density of States of Glassy Silica System via Molecular Dynamics Simulations

Murray Brooker Award for Best Undergraduate Oral or Poster Presentation in Chemical Education



Jennifer Murphy

Memorial University of Newfoundland

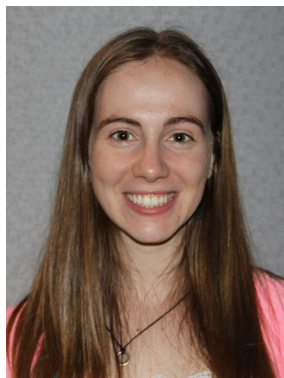
Solving Novel Bismuth Complex Structures by Single Crystal X-ray Diffraction: Two Polymorphs of Trichlorotetrakispyridine Bismuth(III)

About the Murray Brooker Award

The Murray Brooker Award promotes undergraduate participation at chemistry conferences across Canada. The award recognizes presentations that focus on the student's undergraduate educational experience in chemistry, chemical engineering, chemical technology or chemical technician studies. Presentations about the undergraduate experience made by graduate students in the first year of their program are also eligible for the award.

This award is sponsored by the Chemical Institute of Canada (CIC). The CIC is a professional association of chemists, chemical engineers and chemical technologists who are employed in, or associated with industry, academia, government and other organizations across Canada and the world.

Best Undergraduate Presentation in Physical, Theoretical, or Computational Chemistry



Oral

Jessica Besaw

Memorial University of Newfoundland

Atoms and Bonds in Molecules: A Radial Density Analogue of the Quantum Theory of Atoms in Molecules



Poster

Karanbir Pahil

Cape Breton University

Optical Constants and Vibrational Intensities of Trichloromethane

Best Undergraduate Presentation in Biological/Medicinal Chemistry



Oral

Julia Wright

Acadia University

Biological Activity of Extracts from Polygonum Cuspidatum



Poster

Alyssa Moss

Cape Breton University

Synthesis and Characterization of Mono- and Binuclear Copper Complexes with Multidentate N,S-Ligands

Best Undergraduate Oral Presentation in Materials Chemistry



Shawna Corcoran

Cape Breton University

Controlled Grafting of N-Heterocyclic Carbene Monomers within the Pore Walls of Large Pore Silica-Based Materials



Trevor McGrath

Saint Mary's University

Kinetic and Computational Study of Palladium Complexation with an Ethylamine Diacetic Acid Substituted Imidazolium Hexafluorophosphate Salt

Best Undergraduate Presentation in Organic Chemistry



Oral

Landon Hiscock

Memorial University of Newfoundland

Synthesis of Benzocyclobutene-3,5-dicarboxylic Acid Diethyl Ester and its Attempted Use as an o-Xylylene Precursor



Poster

Eric Sampson

Acadia University

Synthesis of Coordination Complexes for Photodynamic Therapy

Best Undergraduate Presentation in Analytical Chemistry



Oral

Brandon Fancy

Memorial University

Application of Ionic Liquids for Matrix-Assisted Laser Desorption Ionization Mass Spectrometry



Poster

Amber Davison

Acadia University

Development of an Online Kinetic Partial Extraction Method for Geochemical Exploration

Best Undergraduate Presentation in Inorganic Chemistry



Oral

Emily Fraser

Acadia University

Towards the Synthesis of Heavy Main Group Compounds with Asymmetric Double Bonds



Poster

Kimberly Hyson

Acadia University

The Study of Asymmetric Heavy Main Group Multiple Bonds With Phosphenium Cation Precursors and Tin(II) Stannylene

E. Gordon Young Award for Best Pedagogical Graduate Oral Presentation



Robert Di Lorenzo

Memorial University

Method Development for the Analysis of PFAs in Atmospheric Particulate Matter by GC-MS

About the E. Gordon Young Award

The E. Gordon Young Award recognize an outstanding young chemist for his or her teaching and instructional abilities.

Eldrid Gordon Young (1897-1976) was an internationally recognized scientist and scholar and the first Canadian to hold the title of biochemist. His professional honours include fellowships in the Royal Society of Canada, the Chemical Institute of Canada, and the American Association for the Advancement of Science. In addition to his presidency of CIC in 1959-60, Dr. Young sat on the board of numerous science associations and committees during his career.

Best Graduate Oral Presentation



1st Place

Crystal Sweeney

Acadia University

Sweating the Small Stuff: Study of Pesticides and Primary Metabolites Excreted in Human Sweat



2nd Place

Stefana Egli

Memorial University of Newfoundland

Novel Molecularly Imprinted Polymeric Films for Highly Sensitive and Selective Detection of Polycyclic Aromatic Hydrocarbons in Aqueous Environments

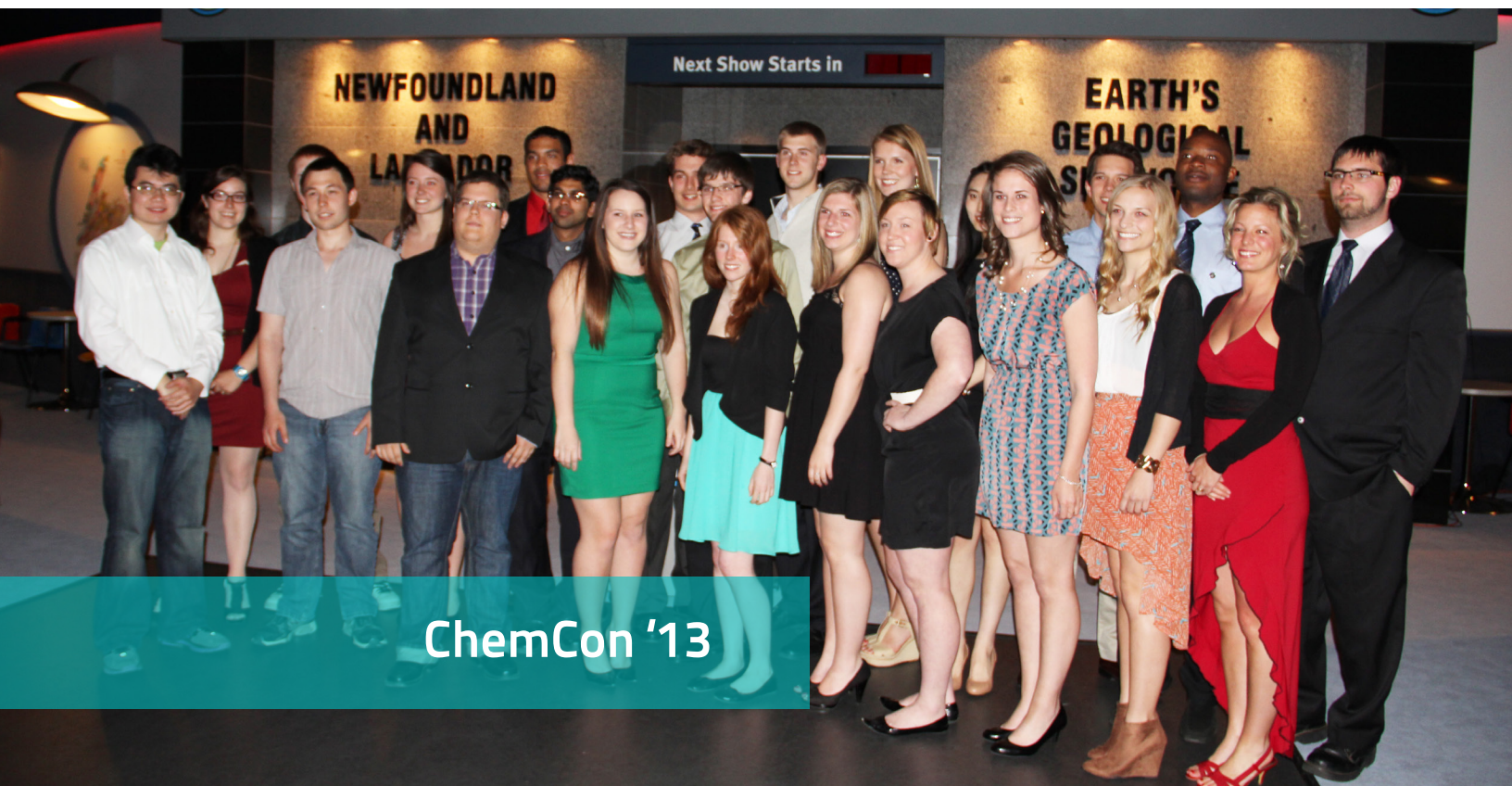


3rd Place

Heidi Kavanagh

Memorial University of Newfoundland

Carbon Substrate Utilization by Microbial Methanogens at Active Sites of Serpentinization: Tablelands Ophiolite, Newfoundland and Cedars Complex, California



Best Graduate Poster Presentation



1st Place

Kiran Sagar

Memorial University of Newfoundland

Synthesis and Fluorescence Properties of a Series of 1,1,n,n-Tetramethyl[n](2,11)teropyrenophanes

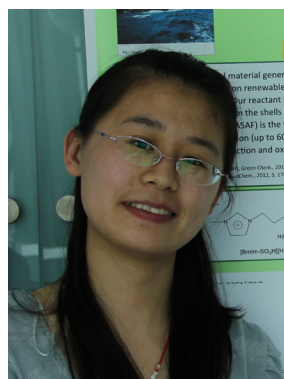


2nd Place

Yasaman Jami

Memorial University of Newfoundland

Irreversible Enzyme Inhibitors



3rd Place

Yi Liu

Memorial University of Newfoundland

The Synthesis of 3-Acetamido-5-acetylfuran from N-Acetyl-D-glucosamine Using Ionic Liquids

Science Atlantic Mathematics, Statistics, and Computer Science Conference

University of Prince Edward Island, Charlottetown, PEI
October 18-19, 2013

Best Oral Presentation - Computer Science



1st Place

William Herring

University of Prince Edward Island
Automata compression algorithm



2nd Place

Mariah Martin Shein

Mount Allison University
Classifier strategy and class imbalance in real world data

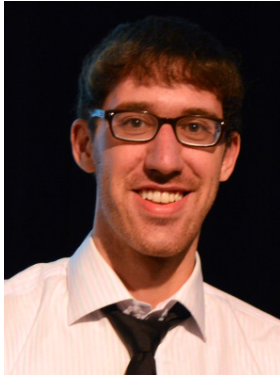


3rd Place

Sarah van der Laan

Mount Allison University
Implementing views for a Database Design Tool

Best Oral Presentation - Mathematics and Statistics



1st Place

Matthew van Bommel

Acadia University

Stage-wise surrogate modelling of Tidal Power Functions



2nd Place

Zack Delaney

Mount Allison University

Eternal Domination on 3 by N grids



3rd Place

Peter Graves-Akerley

Saint Mary's University

Traces of Unitary matrices with disjoint spectra and Spect's Theorem

Science Atlantic Computer Science Programming Competition

1st Place

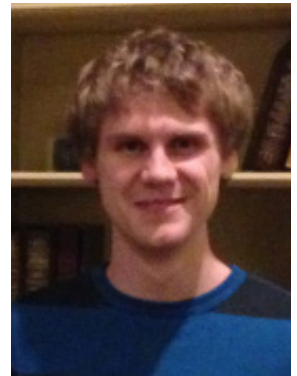
UNB Team: UNB Reds



David Ackerson



Taeler Dixon



Conor McCullough

2nd Place

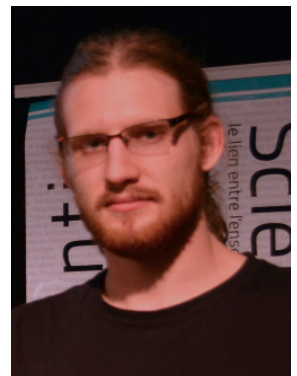
Moncton Team: Define False True



Andy Couturier



Antoine Handfield



David Ouellette

3rd Place

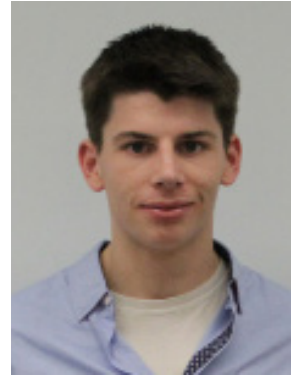
Acadia Team: I Can't Believe It's Not Java 2



Samuel Coleman



Daniel Deveau



Lourens Schep

About the Computer Science Programming Competition

In conjunction with the annual Mathematics, Statistics, and Computer Science Conference, Science Atlantic coordinates the Atlantic division of the ACM International Collegiate Programming Contest (ICPC). ICPC is a worldwide, multi-tier, team-based student competition. Tens of thousands of students at almost 2,000 universities from over 80 countries compete each year. The contest fosters creativity, teamwork, and innovation in designing and implementing algorithms, and enables students to test their ability to perform under pressure.

ACM, the Association for Computing Machinery, is the world's largest educational and scientific computing society.

ACM-ICPC is the oldest, largest, and most prestigious programming contest in the world.

Science Atlantic Mathematics Competition



1st Place

Dylan Day
Patrick Murray

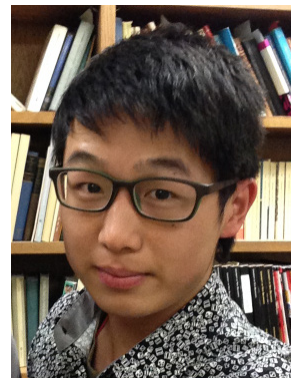
Acadia University



2nd Place

Mathieu Girard
Yuhuai Wu

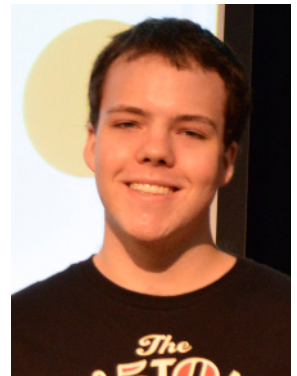
University of New Brunswick



3rd Place

Adam Gardner
Christopher Pardy

Memorial University



About the Mathematics Problem Solving Competition

The Mathematics Problem Solving Competition is a regional contest written at the annual Science Atlantic Mathematics, Statistics, and Computer Science Conference.

A committee of faculty members solicits questions for the competition from the Atlantic mathematics community. Any professor, including the committee members themselves, may contribute problems. Teams of students then compete in the competition to solve the selected questions.

63rd Atlantic Universities Geological Conference (AUGC)

St. Francis Xavier University, Halifax, NS
October 24-26, 2013

Best Overall Presentation

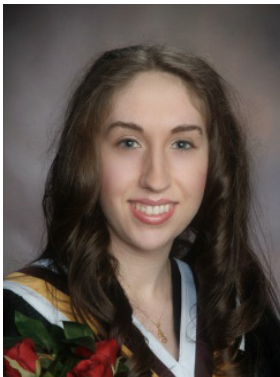


Lisa Mundry

Acadia University

Petrological comparison of sills and dykes in metasedimentary rocks of the Meguma terrane, Nova Scotia, and the Harlech Dome, Wales

Best Poster Award



Siobhan McGoldrick

Dalhousie University

Petrology and Geochemistry of ca. 2680 Ma Pillowed Lavas at Sharrie Lake, Southern Slave Province, NWT

CSPG Award for Best Petroleum Geology Presentation (Canadian Society of Petroleum Geologists)



Daniel Niquet

Memorial University of Newfoundland

Permeability and Porosity of Collapsed Cone Structures Associated with Ophiomorpha Trace Fossils in Offshore Newfoundland Cores

CSEG Award for Best Geophysical Presentation (Canadian Society of Exploration Geophysicists)



Taylor Campbell

Dalhousie University

Seismic Stratigraphy and Attribute Analysis of the Mesozoic and Cenozoic of the Penobscot Area, Offshore Nova Scotia

About the CSEG Award for the Best Geophysical Presentation

The CSEG Award was established by the Canadian Society of Exploration Geophysicists in 2008 and is presented annually at the Atlantic Universities Geoscience Conference (AUGC).

The Canadian Society of Exploration Geophysicists (CSEG) was founded in 1949 around the time of the petroleum production boom which required increased knowledge, skill and professional attributes in the field of geophysics. CSEG's mandate is to promote the science of geophysics among its members, especially as it applies to exploration, and to promote fellowship and co-operation among those persons interested in geophysical prospecting.

Frank Shea Memorial Award in Economic Geology



Travis White

University of New Brunswick

The Early Devonian, Evandale Porphyry Cu-Mo-(Au) deposit, Southern New Brunswick: Petrologic, Geochemical, Geothermobarometric, and Geochronologic Characterization of the Host Rocks and its Origin

About the Frank S. Shea Memorial Award

The Frank S. Shea Memorial Award honours the student who makes the best presentation in economic geology at the annual Atlantic Universities Geological Conference (AUGC).

Frank Shea was engaged in mineral resources exploration and development in the Atlantic region for over 27 years, including 10 years as Chief Geologist and division director of the Mineral Resources and Geological Services Division in the former Nova Scotia Department of Mines. Frank Shea had a great love for his native province and promoted it by assisting mineral exploration and research projects whenever and wherever he could.

The Frank S. Shea Memorial Award is sponsored by the Mining Society of Nova Scotia. Organized in the 1890s to promote the mineral industry, to share technical knowledge and to encourage fellowship, the Society is one of the founding members of the Canadian Institute of Mining and Metallurgy (CIM).

Science Atlantic 2013 Partners and Sponsors

Acadia University
 ACEnet Institute for Materials Modeling and Simulation (ACEmat)
 Association Étudiante de la Faculté des Sciences de L'Université de Moncton (AEFUSM)
 Association of Psychologists of Nova Scotia (APNS)
 Atlantic Association for Research in the Mathematical Sciences (AARMS)
 Atlantic Elver Fishery
 Atlantic Geoscience Society (AGS)
 Bell Aliant
 Bellatrix
 Belloy Petroleum Consulting
 Canada Science Publishing
 Canadian Botanical Association
 Canadian Centre for Fisheries Innovation (CCFI)
 Canadian Mathematics Society (CMS)
 Canadian Mathematics Society Student Committee
 Canadian Psychological Association (CPA)
 Canadian Society for Chemistry
 Canadian Society of Exploration Geophysicists (CSEG)
 Canadian Society of Petroleum Geologists (CSPG)
 Chemical Institute of Canada (CIC)
 Chemical Institute of Canada, Chemical Education Trust Fund
 Chemical Institute of Canada, Maritime Division
 Chemical Institute of Canada, Newfoundland and Labrador Section
 City of St. John's, Newfoundland and Labrador
 Clearwater
 Cooke Aquaculture
 Council of Canadian University Chemistry Chairs
 Crowne Plaza Moncton Downtown
 Département de physique et d'astronomie de l'Université de Moncton
 Encana
 Esso Imperial Oil
 Exxon Mobil
 Faculté des études supérieures (FESR) de l'Université de Moncton
 Faculté des sciences de l'Université de Moncton

Science Atlantic 2013 Partners and Sponsors

Geological Association of Canada
 Government of Canada
 Groupe des Couches Minces et Photonique (GCMP)
 IBM
 John Wiley & Sons, Inc.
 KC Irving Environmental Science Centre
 Lamda Guard Advanced Systems Engineering
 Maplesoft Inc.
 Memorial University Department of Chemistry
 Memorial University Faculty of Science
 Memorial University Chemistry Society
 Memorial University Student Affairs and Services
 Memorial University Student Union
 Mining Society of Nova Scotia
 Nelson Education Limited
 Nova Scotia Department of Natural Resources
 Novartis Animal Health
 Pearson Canada
 Petrel Energy Limited
 Prospectors and Developers Association of Canada (PDAC)
 Province of Nova Scotia
 Royal Society of Chemistry (RSC) Publishing
 Saint Mary's University Department of Psychology
 Saint Mary's University Dean Science
 Saint Mary's University President
 Saint Mary's University Vice-President Academic
 Skretting
 Springer Science+Business Media
 St. Francis Xavier University Department of Earth Sciences
 University of Prince Edward Island Department of Mathematics and Statistics
 University of Prince Edward Island Department of Computer Science and Information Technology
 University of Prince Edward Island Faculty of Science
 Valox Ltd.
 VEMCO

© 2014 Science Atlantic
www.scienceatlantic.ca

Charitable Registration:
BN 118796127RR0001