

# CURRICULUM VITA

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## Education

- B.Eng. (1987) Memorial University of Newfoundland, Civil/Structural (co-op)
- M.E.Sc. (1992) University of Western Ontario, Boundary Layer Wind Tunnel Laboratory
- PhD (1997) Memorial University of Newfoundland, Ocean Engineering
- P.Eng. (1989) Professional Engineers and Geoscientists of Newfoundland and Labrador

## Post Secondary Awards

- ODF - Career Development Award for PhD Studies in Ocean Engineering.
- C-CORE Fellowship Award for Graduate Engineering Studies.
- UWO - Entrance Scholarship for Graduate Engineering Studies, 1989
- CSCE Achievement Award for Excellence in Undergraduate Engineering, 1987
- National Award Winning Essay - Engineering Studies, *A Future for our Rivers*.

## Books

- Iceberg Alley 2010 pp.147 Flanker Press, NL  
ISBN 978-1-897317-71-6
- Icebergs of Newfoundland and Labrador 2005, pp.64 Flanker Press, NL  
ISBN 1-894463-68-4
- Newfoundland and Labrador Insider's Perspectives, Edit. Elke Dettmer, Publ. J.F.F.,  
ISBN 0-9685672-1-5

## Patents

Awarded:

- Digital Meter for Displaying Rate of Electricity Consumption in Monetary Units CIPO  
Patent No 2447550, File Date 2003-11-04

Pending:

- Radome De-icing System for Microwave Antennas Sponsoring client: Aliant Inc.
- Iceberg Management Techniques for Protection of Seabed Infrastructure Sponsoring client: Tatham Offshore Oil Ltd

## Publications

Attached lists:

- Peer-reviewed Papers, Books Patents Theses, Journal Reviews, Published DVDs, Commercial Reports Non-Proprietary, Commercial Reports Proprietary, Significant Presentations and Proposals 1997-2005, and, Supervised Senior Undergraduate Design Reports (2006-present)

## Work Experience

### **2006–Present Memorial University of Newfoundland, Assistant Professor Civil Engineering**

Conducting research, supervision and teaching in the areas of Design, Ocean Engineering, Ice and Icebergs, Wind Engineering and Energy Policy.

Courses taught:

- ENGI.1030 – Engineering Graphics and Design
- ENGI.4312 – Mechanics of Solids
- ENGI.5101 – The Engineering Profession
- ENGI.8700 – The Senior Civil Engineering Design Project
- ENGI.8751 – Coastal and Ocean Engineering

Research, Contributions, Professional and Scholarly Activities:

- Supervised 50+ capstone projects, in Civil, Mechanical, Electrical, ONAE and OUGE
- Supervised or Co-Supervised 8 Graduate Students, 5 now completed.
- Examined 12 graduate students at both Master's and PhD levels.
- Developed designs for new Civil Engineering Homeroom EN2050, a new project office environment for STePS<sup>2</sup>, School curriculum science videos about flight, new instructional apparatus for beam bending, new tools and machines for creating and handling large scale ice samples for laboratory testing, container-based mobile office, vehicular wind turbine testing platform, instrumentation system for soffit vents in situ, and, mentored for a wide array of design projects for students and investigators.
- Participate in several minor and 4 major funded research projects:
  - STePS<sup>2</sup> – Sustainable Technologies for Arctic Ships and Structures - Joint Industry Project \$5 mmCAD
  - NSERC CREATE – Development of HQPs: Ocean Engineering \$1.6 mmCAD
  - HF-ROSA – High Frequency Radar Ocean Surface Applications \$2.7 mmCAD
  - WAKE-UP - Mini UAV Wake Detection System - Project Raven +\$2 mmCAD

### **2002–2005 MAREX Inc. *President, Partner***

Management of near and far term corporate activities of MAREX Incorporated. MAREX is primarily involved in VALE (formerly INCO and Voisey's Bay Nickel Company) sponsored activities in Newfoundland and Labrador. Projects undertaken were:

- Construction management of VALE facilities in Argentina in 2003-2005
- Management of the Long Harbour Industrial Site in Placentia Bay. Business there is primarily focused on bulk material shipping and receiving, steel recycling, fabrication and vessel servicing.
- Micro Hydro Development – 3 projects, engineering and business plans.
- Wind Power – Tower design and fabrication and transportation logistics in partnership with MetalFab Ind. Ltd.
- Rubber Tire Recycling – site development, bid preparations (for MMSB), processing activities studied, geotextile applications investigated.
- Bulk salt importation, handling and sales.
- Floating dock design and polypipe welding applications.

- Quarry development for aggregate.
- Ballicater Consulting Limited and Canadian Ice Services – Iceberg time-lapse surveillance project. Iceberg monitoring, tracking, and harvesting consulting.

**1998-2002 North Atlantic Pipeline Partners - Manager of Newfoundland Operations,  
1998-2002 Partner, ATLENTEC LTD, Director, RIGCO Ltd**

**Management duties:** Human Resources, Accounting/Treasury, Office Liaison, Communications and Computing Systems, Office Materials, Media Management, Safety

**Engineering/Planning duties:** Development of strategic plans and technical reports, presentations, papers and proposals for industrial clients, potential partners, financial institutions, Government officials and other. Administration and review of incoming proposals, contract work, prequals., reports and relevant media information. Work has dealt with many facets of upstream and downstream oil and gas industry.

**Project Areas included:**

- Natural Gas Pipeline Design, Economics, Risk Analysis, Strategies – Subsea, Frontier
- Liquid Natural Gas – Facility Economics, Design and Planning
- Concrete Gravity Based Platform – Ice Loads, Risk Analysis, Conceptual Design
- Field Development Strategies – Grand Banks Production Scenarios, Economics Design
- Public Policy – Drafting resource-based policy and directives in the energy field
- Power Generation – Facility planning, costing and scheduling and economics
- Aluminum Smelting – Facility energy audit, economics and strategic placement
- Domestic Gas and Propane Distribution Networks – Planning, Design in Newfoundland
- Grand Banks Oil Transport – Economics and Financial Strategies
- Semi-Submersible Rig Stacking – Requisite conditions, services and management
- Surveys – Seabed pipeline survey specifications, work order management
- Large Diameter Pipe Mill Feasibility Study – Industry Background, Design, Cost Estimate with partners SNC-Lavalin in St. John’s.

**1992-94 and 1996-98 C-CORE - Project Engineer, Ice Group**

- Terra Nova FPSO Ice Load Design Criteria - PetroCanada.
- Design Ice Loads for The Confederation Bridge. – SCI, Public Works Canada
- Bergy-Bit Impact Study - National Energy Board, Canada.
- Full-Scale Iceberg Impact Field Program – Multi-client Joint Industry Project .
- Iceberg Management Plan – Deeptech, Tatham Offshore Canada Limited
- De-ice Strategies for Microwave Antennas – NewTel, an Aliant Company
- Full-Scale Ice Ridge Strength Experiments – PERD, Exxon
- Numerous small and medium enterprise assistance projects in aquaculture, hydrology, structural design and iceberg activities.

**1994-97 EauCanada Engineering – Sole Proprietorship consultancy during graduate studies**

- Bohai Gulf, China, Design Ice Study for Jacket Platforms – Worley Int., Houston.
- Probabilistic Model Development and Quality Assurance Tasking for the Design Ice Loads, Confederation Bridge, PEI - K.R. Croasdale and Associates
- Laboratory tests for ice ridge and rubble field load models - National Energy Board
- Laboratory tests for the modeling ice loads on the Confederation Bridge – P.W.C.
- Confederation Bridge Arbitration Committee experimental program - P.W.C.
- Participant in 5 large scale laboratory ice studies – IMD/ NRC
- Forensic Investigation of Wind-Induced Failure of Brookfield Drive-In, Brookfield Entertainment Owners Group Limited

**1994-95 Cold Oceans Design Associates Limited (CODA) - *Project Engineer/Consultant***

Engineering design and management tasks on the following projects:

- Voisey's Bay Transit Study – Voisey's Bay Nickel Company Limited
- Detailed Ice Load Analysis of approach span and navigation span piers for Confederation Bridge - SCJV
- Seascope Offshore Platform Evacuation System. Design of structural steel support tower and prototype lifeboat deployment arm – Seascope Systems Ltd
- (Dynamic) Structural Analysis of the C-CORE Centrifuge Laboratory – C-CORE
- High-Density Polyethylene Floating Docks - D.F.O., Public Works, Mahers Polypipe
- Subsea Ocean Observatory. Concept development and preliminary design

**1989-92 UWO Boundary Layer Wind Tunnel Laboratory, *Research Engineer & Graduate Studies***

Research/Project Engineer for the following:

- Hibernia Offshore Development Project Wind tunnel tests of the topside structure - Newfoundland Offshore Contractors Ltd. (NOC)
- Petrobras P-36 Semi-Submersible Offshore Platform Wind Study – Composite Technologia Ltda.
- SIA Hangar, Singapore - Climate study, force balance, spatially average load, pressure and pedestrian level wind study – Singapore Airlines
- Sears Tower, Chicago – Pressure/plaza test for building revitalization – Owners Consortium
- Sonobuoy System Drogue Development - Sparton of Canada Ltd with support from Defense Research Establishment Atlantic (DREA).
- Caribbean Uniform Building Code (CUBIC) - Assisted Dr. Alan Davenport in developing sections of the code.
- Hydrodynamics of Sonobuoy Drogues – Master's Thesis
- Designed and constructed detailed models (incl. Hibernia) and laboratory tanks and testing equipment.

**1987-89 Steelfab Ltd. / R.A. Parsons and Associates, *Project Manager/Engineer***

- Detailed structural steel design work for residential and commercial buildings in and around St. John's Newfoundland, including;
  - Chester Dawe Ltd (Torbay Road)
  - Pizza Hut (Torbay Road)
  - The Majestic Night Club (Queens Road)
  - Nu-Way Kitchens (Paradise)
  - Provincial Woodproducts and Luberworld Ltd (O'Leary Industrial park), and,
  - Beothuk Data Systems (now Long and McQuade, Kenmount Road).
- Designed many simple and moment-bearing connections for Steelfab Industries Incorporated of Newfoundland. Assisted in developing a manual of standard steel connections for Steelfab Ind.
- Project Manager for two projects; an industrial building (30,000 sq. ft) and an office building (10,000 sq. ft.). This involved design, tender, management and inspection duties.
- Designed concrete footings, foundations, retaining walls and precast panels.

**1982-87 Employment/Activities - Co-op Engineering Program**

- Fluvarium Concept and Preliminary Design, Pippy Park Commission, St. John's.
- Supervised the construction of a boundary layer wind tunnel in the fluids laboratory, Faculty of Engineering, Memorial University of Newfoundland.
- Conducted research into optimizing the generating capacity of existing hydro-electric stations in eastern Canada. Also performed a hydrological study of James Bay.
- Government of Canada, Department of Transportation, Laboratory Testing Division, Moncton. Routine lab testing of construction materials.
- Director of Youth Leadership Training Program for youths aged 15-17 at the headquarters of the National YMCA in Canada, Geneva Park, Orillia, Ontario.
- Memorial University Varsity Volleyball Team Captain

**Affiliations and Interests Past and Present**

- Member, Association of Professional Engineers and Geoscientists of Newfoundland
- Member, Canadian Society for Civil Engineering
- Scouts Canada – Scouter/Leader of MQP Scout Pack, Centennial Medal Winner
- Volunteer, Duke of Edinburgh Awards Activities
- Treasurer/Manager, Ada Barnes Group Home Limited
- Elder and Clerk, St. David's Presbyterian Church, St. John's
- Coach, MQP Senior Girls Basketball Team
- St. John Ambulance First Aid and CPR certified 1-12K9M5
- Publisher and Editor, 2004-present, ConnecTion, quarterly newsletter
- Lecturer, Hospitality Newfoundland and Labrador Adventure Tourism Division
- Lecturer, Parks Canada Marine Interpretation Seminars
- Director, Newfoundland and Labrador Cold Ocean Aquarium Inc.
- Former Member, Newfoundland Ocean Industries Association



- Former Member, Working Committee, Ocean Engineering Technology Cluster
- Former Member, PERD, Ice Structure Interaction Committee ISIAC
- Former Director, Rigco Canada Limited
- Past Chair, St. David's Church Board of Managers

### Peer-Reviewed Papers

- Dragt, R., Bruneau, S., Alawneh, S. "Design and execution of Model Experiments to Validate Numerical Modelling of 2D Ship Operation in Pack Ice". IEEE, NECEC 2012, St. John's, NL. Nov. 2012
- Alam, Daley, Colbourne, Hermanski, Gagnon, Bruneau, Clarke, Quinton "Double Pendulum Dynamic Impact Test Set-up for Ice-Grillage Collision" ICETECH 2012, Banff Alberta, Sept, 2012
- Gudimetla, Colbourne, Daley, Bruneau and Gagnon "Strength and Pressure Profiles from Conical Ice Crushing Experiments" ICETECH 2012, Banff Alberta, Sept, 2012
- Bruneau, S. "Natural Gas Better than Labrador Hydro for Island Energy Requirements", The Newfoundland Quarterly, pp43-45, Vol 105, No. 2, FALL 2012
- Bruneau, S., Dillenburg, A. and Ritter, S. "Ice Sample Production Techniques and Indentation Tests for Laboratory Experiments Simulating Ship Collisions with Ice", ISOPE 2012 - Rhodes, Greece, June 17-22, 2012 Accepted.
- Crocker, G., Bruneau, S., Carriers, T. "Strategies for modeling the deterioration rate of ice islands in the North Atlantic ", ISOPE 2012 - Rhodes, Greece, June 17-22, 2012 *in prep.*
- Bruneau, S., Manning, E., Crocker, G. "The Incorporation of an Ocean Temperature Profile into and Existing Deterioration Model" POAC 2011 - Montreal, July 2011.
- Bruneau, S., Bruneau, A., Bruneau, D. "Design and construction of an harsh-climate Observatory for amateur Photoastronomy". IEEE, NECEC 2010, St. John's, NL. Nov. 2010
- Skinner, J., Lye, L. and Bruneau, S. "Climatic Influences on the Annual Iceberg Flux off the Coast of Newfoundland" CSCE 2010 General Conference, Winnipeg June 9-12, 2010, Hamilton Ontario.: GC-42-1
- Lye, L. and Bruneau, S. Industry-Based Capstone Design Projects: Memorials Forty Years Experience." CDEN 2009, Hamilton Ontario.
- Bruneau, S., Manning, E., Rogers, K. "Iceberg Calving Frequency from Field Observations" IAHR - International Symposium on Ice, Vancouver, British Columbia, July 2008.
- Bruneau, S.E., Roberts, J.R., "Controlled Velocity Testing of a Micro Wind Turbine with Varying Blade Geometries" NECEC 2008, IEEE of Newfoundland and Labrador, St. John's October, 2008

- Roberts, J, Bruneau S., Snelgrove, K. “Statistical analysis of Operational and Environmental factors for Micro Wind Generators in Severe Climates”, NECEC 2008, IEEE of Newfoundland and Labrador, St. John’s October 2008
- Bruneau, S.E. Roberts, J. R. “Performance of Micro Hydro Wind Turbines in Remote Harsh Environments” CANWEA 2007, Quebec City, Quebec, Sept 2007
- Bruneau, S.E. Manning, E. “Micro Hydro Demonstration Facility for Quidi Vidi Lake”, NECEC 2007, IEEE of Newfoundland and Labrador, St. John’s October 2007
- Skinner, J. Bruneau, S. “Correlation of Iceberg Flux and Solar Activity 1900 – 2000”. CSCE National Conference Proceedings, St. John’s, NL 2009
- Bruneau, S.E. “Further Rationalization for Piping Natural Gas to the Avalon to Meet Domestic Energy Needs”, NEIA Newfoundland Environmental Industry Association Annual Conference, Publication in Proceedings NEIA 2006, March 3rd , 2006
- Bruneau, S.E. “Merits of Piping gas from the Jeanne D’Arc Basin to The Avalon”, NOIA Annual Conference New Technologies - New Opportunities, Published in Proceedings, Spring, 2006
- German, P. and Bruneau, S. “An Overview of Northeast US Natural Gas Demand Supply and Transportation”, 24th OPT, Amsterdam 2001
- Bruneau, S. (2000) “North Atlantic Pipeline Partners Vision for a Natural Gas Industry in Newfoundland”, Dialogue for Engineers and Geoscientists, Association for Engineers and Geoscientists of Newfoundland and Labrador, February, 2000
- Wilson, D., German, P., Bruneau, S. “The Construction and Maintenance Plan for a Grand Banks Multi-purpose Pipeline”, Newfoundland Ocean Industries Association (NOIA) Annual Conference Proceedings , St. John’s, Newfoundland, June 2000
- Bruneau, S. and German, P. “North Atlantic Pipeline Partners’ Vision for a Natural Gas Pipeline for Newfoundland”, Oil and Gas Works, News Magazine, June 2000
- Carter, M., Pope, A., Ferguson, J. Randell, C. and Bruneau, S. (1999) “Progress in the Development of an AUV to Characterize and Measure the Subsurface Features of An Iceberg”, UUST, New Hampshire 1999
- Crocker, G., Bruneau, S. and Wright, B. (1999) “Iceberg Management for a Grand Banks Pipeline”. Proceedings of OMAE’99, 18th International Conference on Offshore Mechanics and Arctic Engineering, July 11-16, 1999, St. John’s Newfoundland Canada
- McKenna, R., King, T., Crocker, G., Bruneau, S. and German, P. (1999) “Modeling Iceberg Grounding on The Grand Banks”, OMAE 1999, submitted/withheld pending proprietary release.

- Bruneau, S. Crocker, G. Christian, D and English, G. (1999) “Iceberg Mass Reduction for The Protection of Pipelines”, OMAE 1999, submitted/withheld pending proprietary release..
- Bruneau, German, King, McKenna “Route Selection for a Marine Pipeline Linking the Jeanne D’Arc Basin and the Island of Newfoundland” OMAE 1999, submitted/withheld pending proprietary release.
- Bruneau, S, McKenna, R. English, J, Kumar, P. Barnes, B. “The application of Advanced Materials to De-Icing Microwave Communications Antennas in Labrador, Canada, European Space Agency Publications, ESA PPF-30 Vol.8, No.4 December 1998
- McKenna, R.F. and Bruneau S.E. (1997) "Ice Rubble Build-up on Conical Structures During Ridge Interactions". POAC/OMAE 1997 Yokohama, Japan.
- McKenna, R.F. and Bruneau S.E. (1997) "Modelling Unconsolidated Rubble Forces on a Cylindrical Structure". POAC/OMAE 1997 Yokohama, Japan.
- Bruneau, S.E. (1996) "Modeling First-Year Ice Ridge Keels with Sand" The 49th Canadian Geotechnical Conference, Canadian Geotechnical Society, Sept. 1996 St.John's Nf. pp 287-294.
- Bruneau, S.E., McKenna, R.F., Croasdale, K.R., Crocker, G.B. and King, A.D. (1996) "In situ Direct Shear of Ice Rubble in First-Year Ridge Keels". The 49th Canadian Geotechnical Conference, Canadian Geotechnical Society, Sept. 1996 St.John's Nf. pp 269-278.
- McKenna, R.F., Bruneau, S.E. and Williams, F.M. (1996) "In situ Shear Strength Measurements of Model Ice Rubble Using a Punch Technique". The 49th Canadian Geotechnical Conference, Canadian Geotechnical Society, Sept. 1996 St.John's Nf. pp 279-286.
- McKenna, R.F., Bruneau, S.E. (1995) "The Contribution of Unconsolidated Rubble to First-Year Ice Ridge Forces on a Cylindrical Structure", POAC 1995, Murmansk.
- Lin, J.X., Surry, D. and Bruneau, S.E. (1995) "The Hydrodynamic Performance of Disks in Sinusoidal Oscillations". 1995 Journal of Fluids and Structures
- Bruneau, S.E., Cammaert, A.B. and Croasdale, K.R. (1994) "Field Tests for Iceberg Impact Loading". IAHR, Proceedings of the 12th International Symposium on Ice, Trondheim, Norway, Aug.21-26, 1994.
- Bruneau, S., Ramsay, S. (1990) "The Hydrodynamics of Oscillating Disks". Proceedings from the 13th Canadian Congress of Applied Mechanics (CANCAM), Winnipeg, Manitoba, June 1991 and the Western Journal of Graduate Research, University of Western Ontario.
- Bruneau, S., Staples, D., Kirkwood, K. (1990) "Summary of Contributions to Conceptual and Definition Project Planning in The Civil and Infrastructure Sector". Proceedings from the Project Management Institute Symposium (PMI), October 1990, Calgary, Alberta.

## Books, Patents, Theses

- ICEBERG ALLEY - A Journal of nature's Most Awesome Migration, Bruneau, S and Redmond, K. Published 2010 by Flanker Press. pp 134. ISBN 978-1-897317-71-6
- ICEBERGS of Newfoundland and Labrador. Bruneau, S.E. National Library of Canada ISBN 1-894463-68-4. Published by Flanker Press, St. John's, NL. Canada 2004 pp64.
- Newfoundland and Labrador: Insiders' Perspectives by 24 Experts. National Library of Canada ISBN 0-9685672-1-5 Published by the Johnson Family Foundation, Edited by Elke Dettmer, English, German and French Editions, 1999 pp 68.
- Digital Meter for Displaying Rate of Electricity Consumption in Monetary Units. Bruneau, S.E., Canadian Intellectual Property Office Filing Date November 4, 2003, CIPO Number 2,447,550.
- Bruneau, S. "Development of a First-Year Ridge Keel Load Model". 1996, Ph.D. Thesis, Memorial University of Newfoundland. St. John's, Newfoundland, Canada
- Bruneau, S. (1992) "Hydrodynamics of Oscillating Porous Disks". Master's Thesis, submitted for the requirements of M.E.Sc. at the Boundary Layer Wind Tunnel Laboratory, University of Western Ontario, London, Ontario.

## Journal Reviews

- Langhamer, O., Haikonen, K., Sundberg, J. "Wave Power – Sustainable energy or Environmentally Costly, A review with Special emphasis on Linear Wave Energy Converters" Journal of Applied Ecology, JAPPL-2009-00152, Review, Mar, 2009

## Published DVDs

- TAKING FLIGHT Ed. Taking Flight: Enhancing Engineering and Science Awareness Project, DELT and Dept. Education, NL. 2010
- DISSENTER'S WAY, History of the Dissenting Church of Christ now known as St. David's Church of St. John's Newfoundland 1775-2010, SDGH Ltd, 28 mins.
- ICEBERGS, Discovering Newfoundland and Labrador. Lane, K.B. and Lane, G.M. with support from Bruneau, S.E. Published and Distributed by Spectrum Solutions, Holyrood, Newfoundland, 2005.

## Websites

- [www.Icebergfinder.com](http://www.Icebergfinder.com)
- [www.engr.mun.ca/~sbruneau/](http://www.engr.mun.ca/~sbruneau/)

## Commercial Reports: Non-proprietary

- Bruneau, S., Dillenburg, A., Ritter, S. STEPS-RP001-2011 Ice Specimen Fabrication Techniques and Indentation Experiments, A STEPS<sup>2</sup> Pilot Laboratory Investigation of Ice-Structure Interaction. Memorial University, Sustainable Technology for Polar Ships and Structures (STePS<sup>2</sup>) St. John's, NL, Canada. April, 2011. P. 139
- Bruneau, S., Colbourne, B. "Small Scale Ice Decay Experiments for Calibration of Numerical CFD models" A STEPS<sup>2</sup> Pilot Laboratory Investigation of Ice-Structure Interaction. Memorial University, Sustainable Technology for Polar Ships and Structures (STePS<sup>2</sup>) St. John's, NL, Canada. Dec, 2010. P. 50.
- Bruneau, S., Bonnell, J., Costello, S. et al. 2010 "Taking Flight: Enhancing Engineering and Science Awareness Project" MUN-DELT Commercial Contract, Dept of Education. Report and Video production.
- Crocker, G., Bruneau, S. 2007. "Ensemble Modeling for Ice and Iceberg Forecasting." Canadian Ice Services, Environment Canada. Contact Report Admin. Tom Carriers.
- Bruneau, S., Adams, J. 2007 "Renovations to EN2050 Engineering Building" TFM -0##-07 EN-251-07 for Facilities Management Memorial University
- Bruneau, S., Crocker, G. 2007. "Iceberg Flux and Climate Change." Canadian Ice Services, Environment Canada. Contact Report Admin. Tom Carriers.
- Bruneau, S., Fisher, A., Platts, R. "Field Investigations of Valved Soffit Vents in Pouch cove Newfoundland." Industrial Outreach Group, Memorial Faculty of Engineering, Report PR. CM2006\_01
- Crocker, G., Bruneau, S. 2005a. "Coastal Iceberg Surveillance Program Development." Contract Report Prepared for Canadian Ice Service, Environment Canada, Ballicater Report No. 05-01.
- Crocker, G., Bruneau, S. 2005b. "Icebergs Observations Illulisat Greenland, August 2005." Environment Canada, Ballicater Report No. 05-02.
- Bruneau, S.E. "Project LNG GO – An LNG transshipment facility for Newfoundland" Contract report and presentation materials for Tatham Oil llc., February 2005.
- Crocker, G., Bruneau, S. 2004. "Observation and Analysis of Iceberg Calving - June /July 2004." Contract Report Prepared for Canadian Ice Service, Environment Canada, Ballicater Report No. 04-02.
- Bruneau, S., Maher, A. "Tire and PTE Recycling program for the MMSB, Prov. Of Newfoundland and Labrador". Development plan response to Multi Material Stewardship Board tender for 5-year contract for recycling ptes province-wide. Spring 2003

- Crocker, G., Bruneau, S. “Analysis of Iceberg Model Verification Data Collected to June 2003.” Contract Report Prepared for Canadian Ice Service, Environment Canada, Ballicater Report No. 03-02.
- Crocker, G., Wright, B., Thistle, S. and Bruneau, S., 1998. An assessment of Current Iceberg Management Capabilities. Contract report for National Research Council Canada, Prepared by C-CORE and B. Wright and Associates Ltd., C-CORE Publication 98-C26, 108 p.
- Bruneau S.E. “Design Ice Loads for Offshore Conical Structures in Bohai Bay China”, Contract Report for Worley International, Houston Tx, 1996
- Bruneau, S.E., Tuff, K. “De-Icing Strategies for Microwave Antennas.” C-CORE contract report for NewTel Aliant, 1996
- Bruneau, S. “Voisey’s Bay Transit Analysis” Contract Report for CODA Ltd on behalf of Diamond Fields Resources and Tech Inc. 1996
- McKenna, R.F., Bruneau, S.E., Guzzwell, J, Hill, B., and Kirby, C. (1995) "Pilot Experiments with a Cylindrical Structure in Unconsolidated Ice Ridges", NRC Institute for Marine Dynamics Report PR 1995-20, pp29, March 1995.
- Croasdale, K.R. and Associates, Canatec Consultants Ltd., Bruneau, S.E., Klohn-Crippen Ltd and Wright, B and Associates Ltd. (1995) "Ice Load Models for First Year Pressure Ridges and Rubble Fields - Phase 1 Report". National Energy Board of Canada - PERD sponsorship. April 20, 1995.
- Cammaert, A.B., Jordaan, I.J., Bruneau, S.E., Crocker, G.B., McKenna, R.F., and Williams, S.A. (1994) "Analysis of Ice Loads on Main Span Piers for the Northumberland Strait Crossing". Contract Report for J. Muller International - Stanley Joint Venture Inc., CODA Contract Number 5022.01.
- Bruneau, S.E. and Crocker, G. (1994) "Field Tests for Iceberg Impact Loading - Newmans Cove Data Analysis Phase 3 Final Report", Contract Report Prepared for National Energy Board, C-CORE Contract Number 94-C4.
- Bruneau, S.E. (1994) "Ice Load Models for First-Year Ridges and Rubble Fields - Physical Laboratory Tests" Report by EauCanada Engineering for K.R.Croasdale and Associates in response to The National Energy Board of Canada Solicitation no. XSC (84084-0214/000/A). October, 1992.
- Bruneau, S.E. (1994) "The Indentation of Sand Formations" Report by EauCanada Engineering for K.R.Croasdale and Associates on behalf of Public Works Canada for the Northumberland Strait Crossing Project. November, 1992.
- Isyumov, N., Surry, D., Bruneau, S., Crooks, G. Edey, R.T., Lythe, G., Mikitiuk, M.,

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- Bruneau S.E. "An Hydrological Study of James Bay and Review of Reservoir Design Alternatives" Contract report for The GRAND Canal Company, T. Kierins. 1985
- Bruneau, S.E. "The Design and Construction of a Boundary Layer Wind Tunnel for Memorial University", For J.H. Lever, Faculty of Engineering. 1984
- Bruneau S.E. "Eastern Canada's Electricity Exporting Potential" Contract Report for BRM Ltd. St. John's 1984



## Commercial Reports: Proprietary (1997 – 2003)

<b>Role of S Bruneau</b>	<b>Title / Desc.</b>	<b>Partner Consultant(s)</b>	<b>Dates</b>
Co-author	Pipeline Design Basis	NAPP/ J.P.Kenny	1997-1999
Co-author	Mitigating Gas Released Due to Iceberg Impact	C-CORE/NAPP	1997-1998
Signing Authority	Pipelines/Fishing Interaction	SEA Inc	1997
Signing Authority	Stability Analysis	J.P.Kenny	1997
Signing Authority	Wall Thickness	J.P.Kenny	1997
Co-author	Preliminary Pipeline Risk Analysis	NAPP/ C- CORE	1997
Co-author	Grand Banks to New Brunswick Pipeline Study	J.P.Kenny	1997
Co-author	Canadian Maritimes Gas Gathering System	NAPP/ J.P.Kenny	1997
Co-author	Pipeline Design Basis, Grand Banks Pipeline	NAPP/ J.P.Kenny	1997
Signing Authority	Stability Analysis, Grand Banks Pipeline	J.P.Kenny	1997
Signing Authority	Wall Thickness, Grand Banks Pipeline	J.P.Kenny	1997
Signing Authority	Hydraulic Analysis, Grand Banks Pipeline	J.P.Kenny	1997
Signing Authority	Pipeline Engineering Design Summary	J.P.Kenny	1997-1999
Signing Authority	Pipeline Installation Analysis, Grand Banks Pipeline	J.P.Kenny	1998
Signing Authority	Cathodic Protection, Grand Banks Pipeline	J.P.Kenny	1998
Signing Authority	Newfoundland Power Generation Facility Engineering Data Book	NAPP/ Siemens	1998
Co-author	Capital Cost Estimate, Grand Banks Pipeline	NAPP/ J.P.Kenny	1998
Signing Authority	Natural Gas Liquids Extraction Plant Engineering Data Book	NAPP/ J.P.Kenny	1998
Signing Authority	Pipeline Span Analysis, Grand Banks Pipeline	NAPP/ J.P.Kenny	1998
Signing Authority	Hydrate Formation, Grand Banks Pipeline	NAPP/ J.P.Kenny	1998

Signing Authority	Potential for CO2 Corrosion, Grand Banks Pipeline	NAPP/ J.P.Kenny	1998
Signing Authority	Potential for Ethane Consumption, Edgar Power Generation Facility	NAPP/ J.P.Kenny	1998
Co-author	Newfoundland Island Electrical Power Generation and Demand	NAPP/NP	1999
Co-author	Assessment of Compressed Natural Gas Transport by Ship	NAPP	1999
Co-author	Grand Banks Field Development Plan, Field Layout and GBS Description	NAPP, AKER	1999
Co-author	Grand Banks Topsides Design Data	NAPP AkER	1999
Co-author	Iceberg Draft and Shape Determination	NAPP, C-CORE	1997
Co-author	Iceberg Draft Reduction Experiment	C-CORE	1997-1999
Co-author	Topsides Study	NAPP, J.P.Kenny	1999
Co-author	Iceberg Grounding and Pipeline Contact Analysis for the Grand Banks	C-CORE	1998
Co-author	Proposal for the Use of Shaped Charges and Multi-stage Shaped Charges	NAPP/ DERA	1999
Co-author	Whiterose Platform Study	NAPP J.P.Kenny	1999
Co-author	Whiterose Platform Development Plan	NAPP J.P.Kenny AKER	1999
Co-author	Grand Banks Area Field Development Plan	NAPP J.P.Kenny AKER	1999
Co-author	Multiphase Trunkline Study	J.P.Kenny	1999
Co-author	Existing Refinery Description	NAPP	1999
Co-author	Newfoundland Pipeline Terminal Study	NAPP	1999
Signing Authority	Topsides Pumping and Compression Requirements	NAPP, J.P.Kenny	1999
Signing Authority	Research in Pipeline Design/Operating at High Pressures	D.B.Robinson, C-FER, NAPP	1999
Signing Authority	Summary of Information on Iceberg Draft Measurement and Modeling	NAPP Ballicater	1999
Signing Authority	Proposed Gas Pipeline White Rose to Trinity Bay, Nf: Pre-Survey Hazard	F.J.G. Inc.	1-Sep-99

	Assessment		
Co-author	Diver Assisted Repair Depth Limits	J.P.Kenny	1-Aug-99
Co-author	Pipeline Profile for Proposed Pipeline Route	C-CORE	1-Dec-99
Signing Authority	Black Oil Phase Behavior Study	D.B.Robinson	1-Jan-00
Signing Authority	Crude Oil and Gas Testing	D.B.Robinson	1-Mar-00
Co-author	Iceberg Pipeline Contact Analysis for the Grand Banks	C-CORE	1-Jan-00
Co-author	Grand Banks Iceberg Pipeline Interaction Model: Software Documentation	C-CORE	1-Jan-00
Signing Authority	Multiphase Trunkline Analyses	J.P.Kenny	1-Feb-00
Signing Authority	Northern Route Pipeline Wall Thickness	J.P.Kenny	1-Apr-00
Co-author	Grand Banks Multi-Purpose Pipeline - Summary Technical Description	NAPP	1-Jan-00
Co-author	White Rose to Come By Chance Pipeline Cost Estimate	NAPP	1-Mar-00
Co-author	White Rose to Come By Chance Pipeline Operating Cost Estimate	NAPP	1-Apr-00
Signing Authority	Iceberg Draft Modification Project: Phase I Final Report	Sandia National Labs.	1-May-00
Co-author	On Shore Pipeline Route Selection	NAPP	May 2000
Co-author	Grand Banks Pipeline Route Selection	NAPP	May 2000
Co-author	Preliminary Pipeline Route Optimization	NAPP	May 2000
Signing Authority	White Rose Fluids Analysis	D.B.Robinson	March 2001
Signing Authority	Iceberg Design Load Estimates for a Concrete GBS at White Rose	Ballicater Consulting Ltd.	1-Mar-99
Signing Authority	Notes on Iceberg Global Ice Pressures	K.R.Croasdale and Assoc.	1-Oct-99
Co-author	Jeanne D'Arc Basin Gas Hub	Aker Engineering A.S.	1-Mar-00
Co-author	Grand Banks GBS Oil and Gas Hub at White Rose - Summary Technical Description	NAPP	1-Jan-00
Signing Authority	Geotechnical and Seismo-Stratigraphic Description of the White Rose Site ...	SEA Inc.	1-Sep-99

Co-author	Hibernia Riser Assessment	NAPP	2000
Signing Authority	Geotechnical Soil Investigation - Preparation for Field Work	NAPP-Aker	2000
Signing Authority	Geotechnical Soil Investigation - Field Work Results	NAPP-Aker	2000
Signing Authority	Integrated Ice Management R&D Initiative - Final Report	C-CORE	1-Dec-99
Signing Authority	Utilization of a GBS for Crude Production and Gas Export Hub in the Jeanne D'Arc Basin	Aker - Norway	1-Jan-00
Signing Authority	White Rose Early Production - A Comparison Study	Aker - Norway	1-Jan-00
Signing Authority	FPS Conversion Study - Semi-Submersible, Process Plant, Layout, Payload	Aker - Norway	1-Nov-99
Signing Authority	MOPU Conversion Specification of The "FPS Bill Shoemaker"	Aker - Houston	1-Dec-99
Signing Authority	MOPU Conversion Specification of The "FPS Laffit Pincay"	Aker - Houston	1-Dec-99
Co-author	White Rose FPS Development Concept - Summary Technical Description	Rigco Canada Ltd	1-Dec-99
Co-author	Cost of Oil Transport by Tanker from Hibernia to New York and Come By Chance	NAPP	1-Apr-00
Co-author	Natural Gas Interconnect Options and Rates	NAPP	1-Oct-99
Co-author	LNG Investigation	NAPP	1-Apr-00
Co-author	Hibernia Production History	NAPP	1-Jan-00
Co-author	Stacking Sites for the Bill Shoemaker	NAPP	1-Jul-99
Co-author	Refinery Gas Utilization JIP	NAPP-NARL	1999
	Holyrood Gas Utilization JIP	NAPP-HYDRO	1999
Co-author	Island Gas Powered Generation JIP	NAPP-NLP	1999
Signing Authority	Scotian Shelf and Gulf of Maine - NAPP Phase 1 Preliminary Pipeline Corridor Selection	SEA Inc.	1-Dec-97
Signing Authority	Proposed Gas Pipeline White Rose to Trinity Bay, Nf: Pre-Survey Hazard Assessment	F.J.G. Inc.	1-Sep-99
Signing Authority	Diver Assisted Repair Depth Limits	J.P.Kenny	1-Aug-99
Signing Authority	Pipeline Profile for Proposed Pipeline Route	C-CORE	1-Dec-99

Signing Authority	Black Oil Phase Behavior Study	D.B.Robinson	1-Jan-00
Signing Authority	Crude Oil and Gas Testing	D.B.Robinson	1-Mar-00
Signing Authority	Iceberg Pipeline Contact Analysis for the Grand Banks	C-CORE	1-Jan-00
Signing Authority	Grand Banks Iceberg Pipeline Interaction Model: Software Documentation	C-CORE	1-Jan-00
Signing Authority	Multiphase Trunkline Analyses	J.P.Kenny	1-Feb-00
Signing Authority	Northern Route Pipeline Wall Thickness	J.P.Kenny	1-Apr-00
Co-author	Grand Banks Multi-Purpose Pipeline - Summary Technical Description	NAPP	1-Jan-00
Co-author	White Rose to Come By Chance Pipeline Cost Estimate	NAPP	1-Mar-00
Co-author	White Rose to Come By Chance Pipeline Operating Cost Estimate	NAPP	1-Apr-00
Signing Authority	Iceberg Draft Modification Project: Phase I Final Report	Sandia National Labs.	1-May-00
Co-author	On Shore Pipeline Route Selection	NAPP	2000
Co-author	Grand Banks Pipeline Route Selection	NAPP	2000

### Significant Presentations and Proposals 1997-2002

Author(s) / Presentor(s)	Title	Client	Date
Bruneau, S.E. German, P., Rustad, K, Tatham, T.	Vision for Natural Gas Development in Newfoundland	ATCO Frontec Offshore	January 1999
Bruneau, S.E. German, P., Rustad, K, Tatham, T. w/ AKER & PKS	Hebron Asset Development Concepts	Chevron Canada Resources	August 8 2000
Bruneau, S.E. German, P., Rustad, K, Tatham, T.	Atlantic Canada to US Pipeline Strategy	Rick Priory – CEO Duke Energy	July 2000
Bruneau, S.E. German, P., Rustad, K, Tatham, T.	Prospective Maritimes and Northeast Expansion and Grand Banks Natural Gas Pipeline Developments	Williams Gas Pipeline	July 2000
Bruneau, S.E. German, P., Rustad, K, Tatham, T.	NAPP Project Overview	DLJ Investment Banking New York	March 22, 2000
Bruneau, S.E. German, P., Rustad, K, Tatham, T.	Atlantic Canada to US Pipeline Strategy and Related Offshore Facilities	William A. Wise, President and CEO El Paso Energy Corporation	March 2001

Bruneau, S.E. German, P., Rustad, K, Tatham, T.	Atlantic Canada to US Pipeline Strategy	Marathon Oil	Sept 2000
Bruneau, S.E. German, P., Rustad, K, Tatham, T.	White Rose FPS Development Concept	Husky Oil	January 2000
Bruneau, S.E. German, P., Rustad, K, Tatham, T.	White Rose Pipeline Development Concept	Husky Oil	January 2000
Bruneau, S.E. German, P., Rustad, K, Tatham, T.	White Rose GBS Development Concept	Husky Oil	January 2000
Bruneau, S.E. German, P., Rustad, K, Tatham, T.	White Rose Gas Hub Architecture and Pipeline Breakdown of Gas and Oil Receiving Pipelines	Husky Energy Ltd	April 2001
Bruneau, S.E. Tatham, T.	Labrador Hydrocarbon Potential	Office of the Premier	Feb 2001
Bruneau, S.E., German, P.	Liquefied Natural Gas for Newfoundland and Labrador	NL Hydro	Sept 2000
Bruneau, S.E., German, P.	Liquefied Natural Gas for Newfoundland and Labrador	NFLD Power	Oct 2000
Bruneau, S.E., German, P.	Liquefied Natural Gas for Newfoundland and Labrador	Office of the Premier	Oct 2000
Bruneau, S.E. German, P., Rustad, K, Tatham, T	Panuke to Seabrook Proposed Pipeline	Pancanadian Energy Services	June 29 2000
Bruneau, S.E. German, P., Rustad, K, Tatham, T	North Atlantic Line Pipe Fabrication Facility	Minister Nat Resources	May 2001
Bruneau, S.E. German, P., Rustad, K	SydneyNova Scotia Proposed Pipe Fabrication Facility	Premier, Nova Scotia	Oct 2001
Bruneau, S.E. German, P., Tatham, T	NAPP project overview	Fred Smithers, Secunda Marine	February 2001
Bruneau, S.E. German, P., Tatham, T	Prospective Maritimes and Northeast Expansion and Grand Banks Natural Gas Pipeline Developments	Westcoast Energy	June 2001
Bruneau, S.E. German, P., Rustad, K	Project Economics for NOVA Atlantic Aluminum Limited	Premier NL	Aug 2001
Bruneau, S.E. German, P., Rustad, K	Bear Head Pipe Mill Development Project	Minister Industry, N.S.	November 2001

## Significant Presentations and Proposals 2002-2005

Bruneau, S.	Bulk Salt for Ice Control – Experience and Suggested Handling Procedures, Long Harbour NL	Maher Industrial Services Sub Contractor Forum	August 2002
Bruneau, Maher, Butler	COMFACT Joint Venture Operations	Minister Industry NL	November 2002
Bruneau, S. Maher, A.	MAREX Inc Storage and	Voisey's Bay	Feb 2003

	Marshalling Yard for Voisey's Bay Project in Long Harbour	Nickel Company Limited	
Bruneau, S. Maher, A.	MAREX Inc. Bio Medical Waste Disposal Site Provision	Island Waste Management Inc	Feb 2003
Bruneau, S. Butler, I.	Labrador Inuit Mechanical and Structural Ltd LIMS Aurora	Statement of Capabilities and Proposed Operation	June 2003
Bruneau, S., Maher, A.	Removal of Wreck from Deep Water Pier, Long Harbour	Coast Guard	May 2004
Bruneau, S., Butler, I.	Opportunity Argentia Presentation of Metalworld Capabilities	Symposium Presentation and Booth	Sept 2004
Bruneau, S. Maher, A.	Placentia Regatta Facility Development Proposal	Placentia regatta Committee	Sept 2004
Bruneau, S. Maher, A. Maher's Polypipe	Heavy Equipment Floating Pontoon for Brown's Construction Limited	Browns Construction Limited	Oct 2004
Bruneau, S. Maher, S.	Tire Recycling Services at Long Harbour	Multi Material Stewardship Board	April 2005
Bruneau, S., Maher, A	Argentia Demonstration Plant Maintenance Program	Voisey's Bay Nickel Corporation VBNC	June 2005
Bruneau, S., Maher, A	Argentia Office Warehouse Completion Report	INCO Limited	December 2003
Bruneau, S. Maher, A, Butler, I.	Contractor Concept for Demo Plant Construction Including Option to Relocate	SGE Hatch	January 2004
Bruneau, S., Maher, A. Butler, I.	Marshalling Plan for VBNC fabrication on the Argentia North Side	Argentia Management Authority	May 2003
Bruneau, S., Maher, A. Butler, I.	ASCO Supply Management Chain Management and Logistics	SNC Lavalin	March 2003
Bruneau, S. Maher, A.	Servicing of the Tranoccean MODU Henry Goodrich at Long Harbour, Newfoundland	Dave Keating, Tranoccean	Sept 2003
Bruneau, S., Maher, A., Williams, A.	Site Engineering and Preparation Services at Argentia Newfoundland Sept 2002-2003	Voisey's Bay Nickel Company	Aug 2002
Bruneau, S.	TERRAWAT proposal for A Long Harbour Micro Hydro Development	Minister, Nat Res., Hydro Officials, Minister, Municipal Affairs	April 2002

Bruneau, S.	Back Cove Micro Hydro Development, Bull Arm Trinity Bay	Brian Maynard, Director Bull Arm Site Corporation	April 2002
Bruneau, S.	Development of Quidi Vidi River Small Hydro Potential	Mayor, city St. John's	April 2005

Senior Design Project Reports and Supervision  
**Senior Design Projects - Term 8 Civil Capstone**

Supervisor(s)	Title	Group	Date
Bruneau, S., Whiffen, D., Jerrett, R.	Hibernia South Extension – Methanol Injection System Structural Design and Vessel Analysis	Day, M., Hill, J., O'Commell, C. Jacobs, R.	April 2011
Bruneau, S., Osmond, L, Morrissey, J.	Team Gushue Highway Topsail Road Interchange Overpass Design	Coombes, C., Gerrior, B., Hardy, J., Hardy, M.	April 2011
Bruneau, S., Bailey, R., Gillis, N.	St. Lawrence Ore Storage Facility	Abbott, A., Barbour, L., Linegar, A.	April 2011
Bruneau, S., Ball, D., Humby, G.	Cape Broyle/Horse Chops Hydroelectric Development Production Increase	Cooper, M., Kean, D., Michelin, G., Martin, D.	April 2011
Bruneau, S. Barton, G.	Ronald McDonald House Newfoundland and Labrador	Kavanagh, E., Manuel, R., Coles, A., Mandville, J.	April, 2011
Bruneau, S., Penney, K., Allison, T.	Utilization of Recycled Glass in Non-Structural Concrete	Findlay, J., Dawe, J. Hodder, L., Polonio, C.	April 2011
Bruneau, S., Green, K., Leonard, D.	30 Acre Commercial Land Development – East White Hills Civil Infrastructure Design	Alexander, L., Mallum, N., Martin, MA., Martin, MS.	April, 2011
Bruneau, Humby, G., White, T.	Rattling Brook Hydroelectric Development Spillway Design	Ball,D., Cahill, M., Kavanagh, M., Vaughan, S.	April 2010
Bruneau, S., Walsh, J.	Design of Monopoles	Pynn, V., Rex, A., Tsui, E.	April, 2010



Bruneau, S., Morris, M., Singleton, A.	Artist's Studio Structural Design	Alacoque, M., Froude, I., Kavanagh, M., Man, M.	April 2010
Bruneau, S. Barton, G., Tobin, K.	3.8 M Litre Water Storage Tank Cost Analysis for City of St. John's	Chambers, R., Murphy, R., Gibbons, N., Sampson, M.	April 2010
Bruneau, Hancock, K., Hynes, I.	Design of Structure for the St. Anthony Polar Centre	Cooper, J., Fudge, A., Pollard, C., Forward, S.	April 2010
Bruneau, S., Green, K., Leonard, D.	Titl-up Concrete Panel Building Design for Lawton's Drug Store Elisabeth Ave St. John's	Bennet, L., Dalton, D., Coates, N., Willette, C.	April 2010
Bruneau, Bailey, R., Gillis, N.	Design Recommendations: St. Lawrence Marine Terminal	Collins, P., Greeley, S., Hunt, R. Small, A.	April 2010
Bruneau, S., Smith, C., Wentzell, J.	Interim Landfill Design and Waste Management Study	Beehan, M., Leonard, N., Bailote, M., Abbott, K.	April 2009
Bruneau, Morrissey, J., Spencer, G.	Improvements to Topsail Road Interchange at the Outer Ring Road for Traffic Flow Efficiency	Trahey, A., Bromley, P., Martin, A., Temple, A.	April, 2009
Bruneau, S. Bailey, R. Gillis, N.	Tailings Dam Design, St. Lawrence.	Chi, K, Erl, D., Clarke, G., Nash, L.	April 2009
Bruneau, Green, K. Leonard, D.	251 Empire Ave Building Extension	Chisolm, V., Corcoran, M. Drummond, J. Furlong, J., Pope, A.	April 2009
Bruneau, S. Humby, Cormier, T.	Penstock Replacement at Hearts Content	Williams, J., Marshall, A., Ballah, C, Mercer, S.	April, 2009
Bruneau, S. King, A., Short, L.	Northeast Avalon YMCA	Skinner, J., Johansen, A., Davies, H., Tuff, N., Zeyad, E.	April, 2009
Bruneau, S. Tiller, R., Roberts, T.	Design of Guyed or Self Support Tower as Per CSA S37-01 for Small Wind Turbines	Bartlett, K., Noseworthy, S., Osmond, L. and Bursey, I.	April 2009
Bruneau, S., Tobin, K.	Structural Analysis of Building systems	Lynch, T., Bryant, C., Quaiocoe, D., Milley, A.	April, 2009

Bruneau, S., Windsor, R., Riggs, C.	Landfill Closure for Newtech Industrial.	Wentzell, J, Mercer, D., Barnes, D., Jardine, T.	April, 2008
Bruneau, S. Green, K	Airport Industrial Park	Doyle, K., Sheppard, M., Fisher, C., Evans, L.	April, 2008
Bruneau, S., Jones, G., Hart, N.	Civil Layout for Large Scale Wind Farm in Labrador	King, A., Power, C., Crewe, R., Bartlett, S.	April, 2008
Bruneau, S., Hiscock, K.	Integrated Design towards LEED Certification of New MUN Residence	Sturge, L., Comerford, C, Varghese, S., Wilson, S.	April, 2008
Bruneau, S., Williams, J., Cormier, T.	Economic Viability of Small Hydro Capital Works	Ackerman, B., Davis, R., Drew, S., Harbin, R.	April, 2008
Bruneau, S., Tavenor, A., Benson, D.	Salt Water Pumping System Option Analysis	Scarth, B., McCarthy, T., Rebello, K., Power, C.	April, 2008
Bruneau, S., Blundon, A., Short, L.	Structural Design of PSA Industrial Building for Oil Sands Processing Facility	Lush, B., Nag, S., Rogers, K., Greene, A.	April, 2008
Bruneau, S., Gillis, N., Whiffen, D.	Newfoundland Refinery Project – Marine Terminal and Tug Berth	Brown, D, Lane, C., Smart, S., Glover, A., Madden, B.	April, 2008
Bruneau, S., Tiller, R.	Design of Single Story Steel Framed Building	Loveys, J., Jerrett, R., Newbury, R., Puddicome, T.	April, 2008
Bruneau, S., Bailey, R., Gillis, N.	Underground Oil Storage Tanks	Clarke, T. Hunt, A., Walsh, J.	April, 2007
Bruneau, S., Penney, K.	Earth Dam Design for Sandy Pond Long Harbour.	Drover, D., Hamilton, B., Smith, G., Whelan, D.	April, 2007
Bruneau, S., Burt, D.	Redevelopment of Tucker's Wharf Stagehead, Quidi Vidi	Fudge, P., Earle, J., Wong, J., Reynolds, C.	April, 2007
Bruneau, Morrissey, J.	Access Alternatives to the St. John's Health Science Center	Murphy, J., Oldford, D., Prior, N., Veitch, M.	April, 2007
Bruneau, S., Green, K.	Design of conventional Steel office building with Pre-engineered	Henstridge, W., Jones, J., Noel, R., Styles, J.	April, 2007

Bruneau, S., Williams, J.	warehouse. Redevelopment of Rose Blanche Hydro Dam	Tucker, G., Kilfoy, S., Delaney, J., Tavenor, A.	April, 2007
Bruneau, S. Paulin, M.	Conceptual Design for a Concrete GBS for Labrador Osshore Gas Production	Aylward, J., Manning, E., Park, T., Rose, V.	April 2007
Bruneau, S., Tiller, R.	Structural Design of Remote Telecommunications Facility	Antle, L., Baker, R., Marsden, D., Kearley, J.	April, 2007

### Senior Design Project Reports (Term 8 Mechanical Capstone)

Supervisor(s)	Title	Group	Date
Bruneau, S.	Wind Tunnel for Calorimeter Lab at NRC IOT Analysis	Andrew Evans, Adam Coombs, Dennis B., Matt Dolomount.	April 2011
Bruneau, S.	Development of a Steam Flow Electric Generator	Chandima Perera, Ryan Oliver, Nicholas Wasmeier, hristopher Rossiter	April 2010
Bruneau, S.	Design of a Propane conversion kit for gas- powered lawnmowers	Gary Paddick, Karen Erl, Scott Follett	April, 2010
Bruneau, S.	Design of an acoustic based Ice Thickness Measuring Device	Andy O'Connell, Evan Cook, Jamie McDonald, Brian Carroll	April, 2009
Bruneau, S.	Design of a Micro Hydro Generator using a centrifugal pump and induction motor	Sara-Jane Squires, Meghan Couves, Bethan Martin, Mary Folwer	April, 2008
Bruneau, S.	Design of a campfire driven sterling engine micro battery charger	Chris Organ Matthew Baird Haibing Wang Dave Marais	April 2008
Bruneau, S.	Newfoundland Wave Harvesting Technology	Andy O'Connell, Evan Cook, Jamie McDonald, Brian Carroll	July 2008
Bruneau, S.	Mechanical Design of	Greg Piercey, Curtis	April 2007

	an Earth Block Brick Press	Organ, Greg, Seymour, Randy Piercey	
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### Senior Design Project Reports (Term 8 OOG E Capstone)

Supervisor(s)	Title	Group	Date
Bruneau, S., Butt, S.	Proposed Feasibility Study for Newfoundland and Labrador Offshore Natural Gas Development	Joshua Allingham, Jennifer Burden, Jocelyn Button, Jeremy Caines	April 2011
Bruneau, S. Kahn, F.	Preliminary Design and Feasibility Study of a Gas Handling Pipeline for the Newfoundland Offshore Area	Jonathan Caines Greg Curlew Neil LeGrow Kenton Pike Robbie Wiseman	April 2007

### Senior Design Project Reports (Term 7 – 8 Electrical Capstone)

Supervisor(s)	Title	Group	Date
Bruneau, S., Rahman, A	Micro Hydro Generation using Synchronous Induction Motors	Simon Silk	April 2007
Bruneau, S., Rahman, A.	Comparison of Wind and Solar Battery Charging Performance for Remote Sites	Sadia Mahboob	April 2007

### Senior Design Project Report (Term 7-8 ONAE Capstone)

Advisor	Title	Group	Date
Bruneau, S., Daley, C.	LNG Transport in the Canadian Arctic	Ben Stokes et al.	July 2009

## Service Roles in other capacities

<i>Activity/Role</i>	<i>Event</i>	<i>Contact</i>	<i>Date</i>
Host/Tour Guide	Student tours of Labs	Cheryl Keough	Various 2011
Guest Speaker	Seminar Course ENGI.9100	Dr. S. Butt	Dec 2010
Facilitator	GRIP workshop	Prof. L. Lye Prof Venketesan	Dec 2010 December 2007, 2008
Project Manager	Designer of Interior offices for STePS2 research program	B. Colbourne	Spring 2010
Author	“Iceberg Alley” Flanker Press Publishers.	G. Cranford	June 2010
Producer/writer	“Taking Flight” DELTS, Dept Education, Teaching tool for School science	J. Costello	January – July 2010
Proponent/Designer	Journal for Undergraduate Research “PROTO” pilot study and trial.	A.Fisher A.Reheja	Fall 2009
Engineering Representative	The Scholarship of Engagement Workshop	Dean, J. Quaicoe	May 2009
Panel Member	NEIA,MMSB Waste Management Workshop	J.Kelly, Multi Material Stewardship Board	Sept 2009
Journal Reviewer	The Journal of Applied Ecology Wave Energy Technology Assessment	Editor	July 2009
Guest Speaker	The Iceberg Festival	T. Burden	June 2009,10
Proponent	“F1 in Schools” science educational outreach program for high schools – program proposal development.	A.Fisher	June 2009
Keynote Speaker	Annual MUN Employee Retirement Event	A. Meisen	June 2010

Committee member and technical liaison	YM/YWCA building Committee	J. Brown	July 2008-2009
Committee member	Cooperative Research Workshop with NRC-IOT	F.M. Williams	2006-2007
Gala Speaker	Graduation class of 2009 Graduation address	J. Quaicoe	May 2009
Guest Speaker	Johnson Geo Centre - Open Public Lecture	Dr R. Gosine	June 2008
CBC radio guest host	Radio cross-talk on icebergs	R. Dearing	June 2008, 2009
Guest Lecturer Prov. Government	Witless Bay Ecological Reserve Workshops	H. Hogan	June 2008, 2009
Guest Lecturer	Host training seminar series for Dept of Tourism	K. Murphy	May 2007,2008
Guest on Discovery Channel	Out in the Cold TV series guest for episode 2 “Iceberg Cowboys”	Barry Kennedy	June 2007
Panel member	Harris Policy Centre Economic Forum – Southern Shore Avalon	R. Greenwood	Dec 2007
Panel member	Harris Policy Centre Economic Forum – Southern Shore - Labrador	R. Greenwood	May 2006
CSCE representative	Canadian Society of Civil Engineers Faculty Rep and student liaison	G. Jinn	2006-2007
Guest representative	School Outreach for MUN Faculty of Engineering in Corner Brook	R. Gosine	April 2006
Guest Speaker	Rennies River School Outreach	M. Osmond	May 2006
Panel Judge and Guest Speaker	SHAD Valley	L. Lye	July 2006
Guest Speaker	“Speaking of Engineering”	R. Gosine	November 2006

Guest speaker	NEIA – Newfoundland Environmental Industries Association Annual Conference	D. Robbins	March 2006
Guest Speaker	SSPE (Student Society of Petroleum Engineers)	B.Veitch	Nov 2006
Discipline Representative	Speech to the Engineering One students on the merits of the Civil Major.	T. Hussain, A.Hussein	March 2007, 2011
Project Manager	Redevelopment of the Civil Engineering HomeroomEN2050	B. Elliot, R. Gosine, A.Hussein	January 2006-2008
Faculty Advisor	Engineers without Borders	J. Roberts	Jan 2006 – 2008
MUN Alumni Affairs Guest Speaker	Goose Bay Labrador Outreach session	P. Blackwood	Jan 2007

#### Special service capacity

Spokesperson for Bruneau Family	Acceptance and thanks for the renaming of the Inco Innovation Centre to the Bruneau Research and Innovation Centre	Spring 2011
Spokesperson for Bruneau Family	Bruneau Student Life Forum; Address to students	Sept 2009, 2010
Bruneau LIFE Fund	Family Donation Plan Development	2008-2009

#### Community Service and Awards

<i>Organization</i>	<i>Role/service</i>	<i>Contact</i>	<i>Dates</i>
Scouts Canada	Co-Founder and leader of Scouts Canada MQP scout venture troop	L. Jenkins	Jan 2006 - present
Scouts Canada	Webmaster	L. Jenkins	Jan 2006 - present

Scouts Canada	Centennial Medal of Merit Recipient	L. Jenkins	Jan 2006 - present
Scouts Canada	Medal for Good Service recipient	C. Pike	2010
St. David's Group Homes Limited	Treasurer and facility manager	K. Templeton	2006 – present
St. David's Church	Property Manager and Elder	Rev Dr. J. Dent	Various 2006-present
St. David's Church	Newsletter Editor and Publisher	Rev Dr. J. Dent	Various 2006-present
Newfoundland Science center	Presenter	T. Thoms	March 2006, 07
St. John Ambulance	Standard First Aid/CPR A	B. Roberts	April 2007-2010
St. Paul's Junior High	Basketball team coach	M. Lilly	2008-2009
Duke of Edinburgh Award	Group leader and venture advisor	B. Roberts	2007-2010
Canadian Blood Services	Member Donor	S. Morrissey	2010-present
Sudanese Association of Memorial University	SAMUN webmaster, spokesperson and mission supporter	J.J. Chol	2009 - present

### Recent Public Interest Publications

Sky and Telescope – Contributing Photographer, Expert, “Did the Moon Sink the Titanic?”  
Olson, D., pp. 34-39, April 2012

OWL Magazine – Contributing Expert “Incredible Icebergs” pp26-27 December 2012

MONOCLE – Contributing Expert “Iceberg, Ho!” P.21, Issue 06 – Winter 2012-2013