

DECEMBER 2019 PEO TIMETABLE OF EXAMS

DATE Decemi TIME 9:30 a.I

	N	IONDAY, DECEMBER 9	TUESDAY, DECEMBER 10	WE	DNESDAY, DECEMBER 11	Tł	HURSDAY, DECEMBER 12		FRIDAY, DECEMBER 13
9:30 A.M12:30 P.M.	BS-4 BS-5 BS-12 BS-16 Bio-A7 Bio-B12 Chem-B2 Civ-A1 Comp-A6 Elec-A6 Elec-A7 Env-B4 Env-B7 Geol-A4 Ind-A5 Mec-A5 Mec-B12 Mex-B10 Mfg-A6 Mfg-B8 Nuc-B4 Phys-A3 Str-A1	Electric Circuits and Power Advanced Mathematics Organic Chemistry Discrete Mathematics Fluid Mechanics Applied Optics/Photonics Environmental Engineering Elementary Structural Analysis Software Engineering Power Systems and Machines Electromagnetics Site Assessment and Remediation Environmental Sampling and Analysis Structural Geology Quality Planning, Control, and Assurance Electrical and Electronics Engineering Robotics Mechanics Power Systems and Machines Quality Planning, Control, and Assurance Robot Mechanics Waste Management Electromagnetics Elementary Structural Analysis Irrigation Drain & Erosion Control	BS-3Statics and DynamicsBS-11Properties of MaterialsBld-A5Building ScienceChem-A4Chemical Reactor EngineeringCiv-A6Highway Design, Construction, and MaintenanceCiv-B1Advanced Structural AnalysisCiv-B1Structural MaterialsComp-A2Digital Systems DesignElec-B3Digital Communications SystemsElec-B4Information Technology NetworksElec-B7Power Systems EngineeringGeol-A6Soil MechanicsInd-A2Analysis and Design of WorkMec-B3Energy Conversion and Power GenerationMec-B4Integrated Manufacturing SystemsMec-B5Fluid MachineryMfg-A4Analysis and Design of WorkMfg-B10Tooling, Jigs and Fixture DesignPhys-A4Quantum MechanicsStr-A4Advanced Structural AnalysisTra-A3Traffic Engineering	BS-1 BS-8 BS-13 Chem-A1 Chem-A2 Civ-B3 Civ-B8 Comp-A4 Elec-A2 Env-A4 Env-A6 Geol-A2 Ind-A4 Mec-A6 Mec-B9 Met-A3 Mfg-A3 Mfg-B9 Pet-A5 Str-B1 Str-B1	Mathematics Digital Logic Circuits Biology Process Balances and Chemical Thermodynamics Unit Operations & Separation Processes Geotechnical Design Management of Construction Program Design and Data Structures Systems and Control Water and Wastewater Engineering Solid Waste Engineering and Management Hydrogeology Production Management Advanced Fluid Mechanics Advanced Engineering Structures Metal Extraction Processes Production Management Industrial Safety and Health Petroleum Production Operations Geotechnical Design Management of Construction	BS-10 CS-4 Civ-A3 Civ-A5 Comp-A1 Elec-A1 Env-A1 Ind-A3 Mec-A4 Met-A4 Met-A4 Mex-A2 Mtl-A2 Nav-A2 Nav-A3 Str-B11 Tra-A5 Wrse-A6	Thermodynamics Engineering Management Municipal and Environmental Engineering Hydraulic Engineering Electronics Circuits Principles of Environmental Engineering Facilities Planning Design and Manufacture of Machine Elements Structure of Materials Circuits and Electronics Transport Phenomena in Materials Engineering Hydrodynamics of Ships (I): Resistance and Propulsion Hydrodynamics of Ships (II) Ship Motion Hydraulic Engineering Transportation Planning and Demand Analysis Municipal and Environmental Engineering	BS-9 CS-1 CS-3 Chem-B6 Civ-A4 Civ-B7 Elec-B5 Env-A3 Geol-B3 Mec-B2 Mex-B4 Mfg-B6 Str-A3	Basic Electromagnetics Engineering Economics Sustainability, Engineering and the Environment Petroleum Refining and Petrochemicals Geotechnical Materials and Analysis Transportation Planning and Engineering Advanced Electronics Geotechnical & Hydrogeological Engineering Site Investigation Environmental Control in Buildings Environmental Control in Buildings Metrology Geotechnical Materials and Analysis
2:00 P.M5:00 P.M.	BS-6 BS-7 CS-2 Agric-A4 Chem-A6 Civ-B6 Civ-B9 Elec-A3 Elec-B2 Env-A2 Env-A2 Env-B5 Geol-A1 Ind-B5 Mec-A1 Mec-B5 Mex-B8 MMP-B2 Pet-A6 Str-A6-1	Mechanics of Materials Mechanics of Fluids Engineering in Society Fluid Flow Process Dynamics and Control Urban and Regional Planning The Finite Element Method Signals and Communications Advance Control Systems Hydrology and Municipal Hydraulics Engineering Industrial and Hazardous Waste Management Mineralogy and Petrology Ergonomics Applied Thermodynamics and Heat Transfer Product Design and Development Product Design and Development Rock Fragmentation Reservoir Mechanics Applications of Finite Elements	NO EXAMS SCHEDULED	BS-14 BS-15 Agric-A2 Bio-A2 Chem-B1 Civ-A2 Comp-A5 Elec-A5 Env-B6 Geol-A7 Ind-A1 Ind-A6 Mec-A2 Mec-B8 Mex-A5 Mfg-B3 MMP-A2 Nuc-B2 Str-A2 Str-B5	Geology Engineering Graphics & Design Process Soil Physics and Mechanics Process Dynamics Control Transport Phenomena Elementary Structural Design Operating Systems Electronics Agricultural Waste Management Applied Geophysics Operations Research System Simulation Kinematics and Dynamics of Machines Engineering Materials Kinematics and Dynamics of Machines System Simulation Underground Mining Methods and Design Radiation Protection Elementary Structural Design Foundation Engineering	BS-2 Agric-B11 Bio-A1 Bio-B6 Bld-A6 Chem-A3 Civ-B5 Civ-B10 Comp-B10 Elec-B1 Geol-B10 Ind-B1 Mec-B1 Met-A5 Pet-B1 Wrse-B3	Probability and Statistics Principles of Waste Management Biomaterials and Biocompatibility Bioinstrumentation Geotechnical Materials and Analysis Heat and Mass Transfer Water Supply and Wastewater Treatment Traffic Engineering Distributed Systems Digital Signal Processing 1 Gravity and Magnetics Fields Applied Probability and Statistics Advanced Machine Design Mechanical Behaviour and Fracture of Materials Well Logging and Formation Evaluation Water Supply and Wastewater Treatment	Agric-B7 Chem-A5 Chem-B4 Civ-B2 Comp-B11 Elec-A4 Elec-B8 Env-A5, Geom-A2 Ind-B2 Mec-A7 Pet-A2 Str-A5 Str-B10	Principles of Hydrology Chemical Plant Design and Economics Biochemical Engineering Advanced Structural Design Digital Systems and Computers Power Electronics and Drives Air Quality and Pollution Control Engineering Adjustment of Observations and Data Analysis Manufacturing Processes Advanced Strength of Materials Petroleum Reservoir Fluids Advanced Structural Design Earthquake Engineering

December 9, 10, 11, 12, 13

9:30 a.m.-12:30 p.m. & 2:00 p.m.-5:00 p.m.



To:

Candidates Writing December 2019 National Technical Exams

From: Exam Centre

Email Contacts: <u>exams@peo.on.ca</u>

Date: October 3, 2019

Subject: Information for the Guidance of Candidates

1. December 2019 Timetable of Exams - enclosed

Exams will be held simultaneously at all centres; the morning exams begin at 9:30 a.m. and the afternoon exams begin at 2:00 p.m. All exams are of three-hour duration except BS-2, Probability and Statistics, which is a two-hour exam. Candidates are expected to arrive at the assembly area outside the exam room fifteen minutes before the starting time, to consult seating lists, etc. Candidates who arrive late for the exam will be admitted up to one-half hour after the start, but no time extension will be allowed. No candidate may leave the exam room within the first half-hour of the exam period. Candidates are responsible for finding the location centre and arriving on time to write the exams, including during bad weather. Please note if required during the exam period only one washroom or personal break is allowed alert the proctor in charge and the break cannot be more than 2 – 5 minutes the proctor will indicate on the attendance sheet that you left the exam room briefly. Note, no cellular telephones, pagers, palm organizers etc. are permitted for the duration of the examination.

Please note candidates must show one piece of recent picture identification at the examination centre. (i.e., driver's licence, current passport, health card with picture, etc.)

2. Examiners' Advice to Candidates

Applicants should write in ink (ballpoint) rather than pencil. A paper written in ink is much easier to read.

If a candidate believes that there is an error on the exam, typographical or otherwise, the candidate must state an assumption regarding the error and continue with the exam. Put your comments directly to the attention of the examiner in your written answer book. Even if you believe the question(s) asked was outside the scope of the current syllabus <u>not the suggested textbook(s</u>). Or submit an email or fax immediately after writing the exam explaining any comments or concerns you may have had about the exam paper and your comments will be given to the examiner to mark accordingly.

All applicants who are writing a Basic Studies exam should be aware that these exams correspond to 2nd or 3rd year level engineering courses and should not infer that because they are termed "Basic" that they are simple.

Carefully complete the outside cover of your exam book. If more than one book is used, number each book by showing its number in the series; i.e., 1 of 3, 2 of 3, and so on. Indicate the questions you want marked on the front-page cover. This will clearly display to the examiner the questions you want marked.

Read the paper through, including its title page; make any notes that occur to you on the left-hand (rough work) page of the exam book. Identify your rough work by Question Number. Start with the question you can answer best, first reading it again with care to ensure that you understand it. Identify it by its number. The sequence in which you attempt questions is at your choice.

Budget your time. Answer, if possible, the total number of questions that are required to be attempted. Spare time should be devoted to a review.

3. List of Aids Permitted – listed below this document

Format 1 - No calculator permitted. The exam may be Closed or Open Book.

Format 2 - There are two calculator models permitted for this format: either a Casio or Sharp model. The exam may be **Closed** or **Open Book**. Note, any alpha letters that immediately follows the calculator model number is fine except for the letter 's' which means the calculator is programmable. If the letter 's' is in combination with other alpha letters, then the calculator is acceptable i.e. 'ms'. (Please note that "none" in the list of aids represents <u>no further instructions for this exam</u>.)

Format 3 - Any non-communicating calculator will be permitted. The exam will be an **Open Book** exam. Candidates will identify the calculator used on the inside left-hand sheet of the exam workbook; i.e., name and model designation. (Please note that "none" under aids and instructions represents <u>that you may bring</u> <u>as many textbook(s) or notes etc. into the exam there is no restrictions with this format 3 exam.</u>) <u>Please note space allocated to candidates writing open book exams will be the same as closed book</u> exams. Therefore, you will need to limit the number of textbooks brought into the exam room.

Closed Book - Only pens, pencils, and drawing instruments may be brought into the room. "If format 2 is selected, candidates are permitted to bring any approved Casio or Sharp calculator into the exam room."

Open Book - Any notes, textbooks, materials, etc. may be brought into the exam centre. (Where the examiner has specified only certain material, this is noted.)

Closed Book with Specified Aids - For some exams, a single, precisely identified aid is allowed. This is noted on the list under aids and instructions.

4. Location of Exam Centres and Rooms – last page of this document

5. Results of Exams

Exam results will be mailed 45 <u>working</u> days after the last exam has been written (February 17, 2020). <u>No results will be communicated by telephone, email, fax or in person.</u>

If a candidate disagrees with an exam mark, they may request a re-read. There is a non-refundable fee of \$330.00 for every exam written for this service. There is no guarantee that a re-read will result to the favour of the candidate. The re-read mark will then be the final mark and the original mark can go up or down. Note: Failed papers are re-read by the examiner. A re-read request must be submitted within 30 days after receipt of results (not when results are received). The re-read grading will take eight weeks or longer. If you do request a re-read and do not receive a confirmation in writing from the Exam Centre within two weeks of submittal of payment you must contact the Exam Centre immediately to confirm receipt of reread request.

Exam papers will not be returned to the candidate or seen by the candidate, nor are the answers available. The passing mark is 50.

6. The Following <u>Are Not</u> Allowed

Use of notes on exams where none are permitted Communicating with another candidate Employment of another person to write an exam

7. Leaving an Exam Room without Writing

A candidate who appears in the exam room and then decides not to write the exam, must place the signed exam book in the envelope provided, sign the outside of the envelope, and hand it to the invigilator/proctor. Any such candidate is given a mark of **Zero** for the exam and this will be considered a failure.

8. No Show

Candidates who apply to write technical exams and do not attend the sitting(s) will be marked "No Show." They will forfeit the exam fee, i.e., no refund, credit or transfer to the next sitting. A "No Show" is not considered a failure or an attempt. Candidates that were issued a reminder letter to write at this sitting and selected not to write for whatever reason the file is closed for time expiration and you will need to re-apply again with another license application form to pursue licensure. Note: A "No Show" is better than writing an exam you do not feel prepared to write and might fail, even if it means having this current file closed. Candidates can re-apply again with another license application form.

- **Basic Examinations**
- Dec 11- am- 04-BS-1, Mathematics_
- Dec 12- pm- 04-BS-2, Probability and Statistics 2 hours
- Dec 10 am- 04-BS-3, Statics and Dynamics
- Dec 9- am 04-BS-4, Electric Circuits and Power_
- Dec 9- am- 04-BS-5, Advanced Mathematics_
- Dec 9- pm 04-BS-6, Mechanics of Materials
- Dec 9- pm 04-BS-7, Mechanics of Fluids
- Dec 11- am 04-BS-8, Digital Logic Circuits
- Dec 13 am 04-BS-9, Basic Electromagnetics
- Dec 12 am 04-BS-10, Thermodynamics
- Dec 10 am -04-BS-11, Properties of Materials
- Dec 9 am 04-BS-12, Organic Chemistry
- Dec 11 am -04-BS-13, Biology
- Dec 11 pm 04-BS-14, Geology
- Dec 11- pm 04-BS-15, Engineering Graphics & Design Process
- Dec 9 -am -04-BS-16, Discrete Mathematics

Complementary Examinations

- Dec 13 am -11-CS-1, Engineering Economics_
- Dec 9 pm -11-CS-2, Engineering in Society_
- Dec 13 am -11-CS-3, Sustainability, Engineering and the Environment_
- Dec 12 am -<u>11-CS-4, Engineering Management</u>

- Agricultural Examinations
- Dec 11 pm -04-Agric-A2, Soil Physics and Mechanics
- Dec 9 pm -04-Agric-A4, Fluid Flow
- Dec 13 pm -04-Agric-B7, Principles of Hydrology -
- Dec 12 pm- 04-Agric-B11, Principles of Waste Management

Biomedical Examinations

- Dec 12 pm 04-Bio-A1, Biomaterials and Biocompatibility_
- Dec 11 pm -04-Bio-A2, Process Dynamics Control_
- Dec 9 am 04-Bio-A7, Fluid Mechanics
- Dec 12 pm -04-Bio-B6, Bioinstrumentation
- Dec 9 am -04-Bio-B12, Applied Optics/Photonics

Building Examinations

- Dec 10 am 07-Bld-A5, Building Science
- Dec 12 pm -07-Bld-A6, Geotechnical Materials and Analysis

Chemical Examinations

- Dec 11 am -16-Chem-A1, Process Balances and Chemical Thermodynamics
- Dec 11 am -16-Chem-A2, Unit Operations & Separation Processes
- Dec 12 pm -16-Chem-A3, Heat and Mass Transfer
- Dec 10 am -16-Chem-A4, Chemical Reactor Engineering
- Dec 13 pm -16-Chem-A5, Chemical Plant Design and Economics
- Dec 9 pm -16-Chem-A6, Process Dynamics and Control
- Dec 11 pm 16-Chem-B1, Transport Phenomena
- Dec 9 am -16-Chem-B2, Environmental Engineering_
- Dec 13 pm -16-Chem-B4, Biochemical Engineering_
- Dec 13 am 16-Chem-B6, Petroleum Refining and Petrochemicals_

Civil Examinations

- Dec 9 am -16-Civ-A1, Elementary Structural Analysis_
- Dec 11- pm -16-Civ-A2, Elementary Structural Design
- Dec 12 am -16-Civ-A3, Municipal and Environmental Engineering
- Dec 13 am -16-Civ-A4, Geotechnical Materials and Analysis_
- Dec 12 am -16-Civ-A5, Hydraulic Engineering_
- Dec 10 am -16-Civ-A6, Highway Design, Construction, and Maintenance_

Civil Examinations

- Dec 10 am -16-Civ-B1, Advanced Structural Analysis_
- Dec 13 pm -16-Civ-B2, Advanced Structural Design_
- Dec 11 am -16-Civ-B3, Geotechnical Design
- Dec 12 pm -16-Civ-B5, Water Supply and Wastewater Treatment_
- Dec 9 pm -16, Civ-B6, Urban & Regional Planning
- Dec 13 am -16-Civ-B7, Transportation Planning and Engineering
- Dec -11 am 16-Civ-B8, Management of Construction_
- Dec 9 pm -16-Civ-B9, The Finite Element Method_
- Dec 12 pm -16-Civ-B10, Traffic Engineering
- Dec 10 am -16-Civ-B11, Structural Materials____

Computer Examinations

- Dec 12 am -<u>17-Comp-A1, Electronics</u>
- Dec 10 am -17-Comp-A2, Digital Systems Design___
- Dec -11 am -17-Comp-A4, Program Design and Data Structures
- Dec 11 pm 17<u>-Comp-A5</u>, Operating Systems
- Dec 9 am -17-Comp-A6, Software Engineering_
- Dec 12 pm -<u>17-Comp-B10, Distributed Systems</u>
- Dec 13 pm -<u>17-Comp-B11, Advanced Software Design</u>

Electrical Examinations

- Dec 12 am -<u>16-Elec-A1, Circuits</u>
- Dec 11 am -16-Elec-A2, Systems and Control
- Dec 9 pm -16-Elec-A3, Signals and Communications
- Dec 13 pm -<u>16-Elec-A4</u>, Digital Systems and Computers
- Dec 11 pm -16-Elec-A5, Electronics
- Dec 9 am -16-Elec-A6, Power Systems and Machines
- Dec 9 am -16-Elec-A7, Electromagnetics_

Electrical Examinations

- Dec 12 pm -16-Elec-B1, Digital Signal Processing
- Dec 9 pm -16-Elec-B2, Advance Control Systems____
- Dec 10 am -16-Elec-B3, Digital Communications systems
- Dec 10 am 16-Elec-B4, Information Technology Networks
- Dec 13 am -16-Elec-B5, Advanced Electronics____
- Dec 10 am 16-Elec-B7, Power Systems Engineering_
- Dec 13 pm -16-Elec-B8, Power Electronics and Drives

Environmental Examinations

- Dec 12 am -18-Env-A1, Principles of Environmental Engineering
- Dec 9 pm -18-Env-A2, Hydrology and Municipal Hydraulics Engineering
- Dec 13 am 18-Env-A3, Geotechnical & Hydrogeological Engineering
- Dec 11 am -18-Env-A4, Water and Wastewater Engineering
- Dec 13 pm -18-Env-A5, Air Quality & Pollution Control Engineering
- Dec 11 am -18-Env-A6, Solid Waste Engineering and Management
- Dec 9 am 18-Env-B4, Site Assessment and Remediation
- Dec 9 pm -18-Env-B5, Industrial & Hazardous Waste Management
- Dec 11 pm -18-Env-B6, Agricultural Waste Management____
- Dec 9 am 18-Env-B7, Environmental Sampling and Analysis

Geological Examinations

- Dec 9 pm -<u>18-Geol-A1</u>, Mineralogy and Petrology
- Dec 11 am -18-Geol-A2, Hydrogeology
- Dec 9 am -18-Geol-A4, Structural Geology_
- Dec 10 am -18-Geol-A6, Soil Mechanics
- Dec 11 pm -18-Geol-A7, Applied Geophysics
- Dec 13 am -18-Geol-B3, Site Investigation
- Dec 12 pm -18-Geol-B10-1, Gravity & Magnetics Fields

Geomatics Examinations

Dec- 13 – pm -18-Geom-A2, Adjustment of Observations and Data Analysis

Industrial Examinations

- Dec 11 pm -17-Ind-A1, Operations Research_
- Dec 10 am -17-Ind-A2, Analysis & Design of Work
- Dec 12 am -17-Ind-A3, Facilities Planning
- Dec 11 am -17-Ind-A4, Production Management
- Dec 9 am -17-Ind-A5, Quality Planning, Control, and Assurance
- Dec 11 pm -<u>17-Ind-A6, System Simulation</u>
- Dec 12 pm -17-Ind-B1, Applied Probability and Statistics
- Dec 13 pm -17-Ind-B2, Manufacturing Processes____
- Dec 9 pm -<u>17-Ind-B5, Ergonomics</u>

Mechanical Examinations

- Dec 9 pm -16-Mec-A1, Applied Thermodynamics and Heat Transfer___
- Dec -11 pm -16-Mec-A2, Kinematics and Dynamics of Machines
- Dec 10 am -16-Mec-A3, System Analysis and Control
- Dec 12 am -16-Mec-A4, Design and Manufacture of Machine Elements
- Dec 9 am -16-Mec-A5, Electrical and Electronics Engineering
- Dec 11 am -16-Mec-A6, Advanced Fluid Mechanics
- Dec 13 pm -16-Mec-A7, Advanced Strength of Materials____

- Dec 12 pm -16-Mec-B1, Advanced Machine Design____
- Dec 13 am -16-Mec-B2, Environmental Control in Buildings
- Dec 10 am -16-Mec-B3, Energy Conversion and Power Generation
- Dec 10 am -16-Mec-B4, Integrated Manufacturing Systems
- Dec 9 pm -16-Mec-B5, Product Design and Development____
- Dec 10 am -16-Mec-B6, Fluid Machinery
- Dec 11 pm -16-Mec-B8, Engineering Materials____
- Dec 11 am 16-Mec-B9, Advanced Engineering Structures
- Dec 9 am -16-Mec-B12, Robotics Mechanics

Mechatronics Examinations

- Dec 12 am -16-Mex-A2, Circuits and Electronics
- Dec 11 pm -16-Mex-A5, Kinematics and Dynamics of Machines
- Dec 13 am -16-Mex-B4, Environmental Control in Buildings____
- Dec 9 pm -16-Mex-B8, Product Design and Development____
- Dec 9 am -16-Mex-B10, Power Systems and Machines

Metallurgical Examinations

- Dec 11 am -10-Met-A3, Metal Extraction Processes
- Dec 12 am -10- Met-A4, Structure of Materials
- Dec 12 pm -10-Met-A5, Mechanical Behaviour and Fracture of Materials____

Manufacturing Examinations

- Dec 11 am -08-Mfg-A3, Production Management
- Dec 10 am -08-Mfg-A4, Analysis & Design of Work_
- Dec 9 am -08-Mfg-A6, Quality Planning, Control, and Assurance
- Dec 11 pm -08-Mfg-B3, System Simulation
- Dec 13 am 08-Mfg-B6, Metrology
- Dec 9 am 08-Mfg-B8, Robot Mechanics
- Dec 11 am -08-Mfg-B9, Industrial Safety and Health___
- Dec 10 am -08-Mfg-B10, Tooling, Jigs & Fixture Design

Mineral Examinations

- Dec 11 pm -18-Mmp-A2, Underground Mining Methods and Design_
- Dec 9 pm -<u>18-Mmp-B2, Rock Fragmentation</u>

Material Examinations

Dec – 12 – am -12-MtI-A2, Transport Phenomena in Materials Engineering

Naval Examinations

- Dec 12 am -16-Nav-A2, Hydrodynamics of Ships (I): Resistance and Propulsion
- Dec 12 am -16-Nav-A3, Hydrodynamics of Ships (II) Ship Motion

Nuclear Examinations

- Dec 11 pm -08-Nuc-B2, Radiation Protection
- Dec 9 am 08-Nuc-B4, Waste Management

Petroleum Examinations

- Dec 13 pm -17-Pet-A2, Petroleum Reservoir Fluids
- Dec 11 am -17-Pet-A5, Petroleum Production Operations____
- Dec 9 pm -<u>17-Pet-A6, Reservoir Mechanics</u>
- Dec 12 pm -17-Pet-B1, Well Logging and Formation Evaluation_

Physical Examinations

- Dec 9 am -17-Phys-A3, Electromagnetics
- Dec 10 am -17-Phys-A4, Quantum Mechanics

Structural Examinations

- Dec 9 am -07-Str-A1, Elementary Structural Analysis
- Dec 11 pm -07-Str-A2, Elementary Structural Design
- Dec 13 am -07-STR-A3, Geotechnical Materials and Analysis____
- Dec 10 am -07-Str-A4, Advanced Structural Analysis
- Dec 13 pm -07-Str-A5, Advanced Structural Design
- Dec 9 pm -07-Str-A6-1, Applications of Finite Elements____
- Dec 11 am -07-Str-B1, Geotechnical Design___
- Dec 11 am -07-Str-B2, Management of Construction
- Dec 11 pm -07-STR-B5, Foundation Engineering ____
- Dec 13 pm -07-Str-B10, Earthquake Engineering
- Dec 12 am -07-Str-B11, Hydraulic Engineering

Transportation Examinations

Dec - 10 - am -07-Tra-A3, Traffic Engineering _

Dec – 12 – am -07-Tra-A5, Transportation Planning and Demand Analysis

Water Resources Examinations

- Dec 12 am -07-Wrse-A6, Municipal and Environmental Engineering
- Dec 9 am 07-Wrse-A7-1, Irrigation Drain & Erosion Control____

Dec – 12 – pm -07-Wrse-B3, Water Supply & Wastewater Treatment

Name of Subject Basic Studies	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
04-BS-1, Mathematics	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae
04-BS-2, Probability and Statistics (2hrs)	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. Note; statistical tables of the normal, t, chi-square and F distributions are provided
04-BS-3, Statics and Dynamics	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. The aid sheet must be submitted with the written exam paper.
04-BS-4, Electric Circuits and Power	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-5, Advanced Mathematics	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-6, Mechanics of Materials	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. Note, example problems and solutions to problems are NOT allowed. <u>THE AID</u> <u>SHEET MUST BE SUBMITTED WITH THE</u> WRITTEN EXAM.
04-BS-7, Mechanics of Fluids	2	CLOSED	NONE
04-BS-8, Digital Logic Circuits	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-9, Basic Electromagnetics	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-10, Thermodynamics	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-11, Properties of Materials	2	CLOSED	NONE
04-BS-12, Organic Chemistry	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-13, Biology	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
04-BS-14, Geology	2	CLOSED	NONE
04-BS-15, Engineering Graphics and Design Process	1	CLOSED	NONE
04-BS-16, Discrete Mathematics	2	CLOSED	NONE

Name of Subject Complementary Studies	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
11-CS-1, Engineering Economics	3	OPEN	Candidates should bring with them compound interest factors tables
11-CS-2, Engineering in Society- Health and Safety	2	CLOSED	NONE
11-CS-3, Sustainability, Engineering and the Environment	2	CLOSED	NONE
11-CS-4, Engineering Management	1	CLOSED	NONE

Name of Subject Agricultural	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
04-Agric-A2, Soil Physics and Mechanics	3	OPEN	NONE
04-Agric-A4, Fluid Flow	3	OPEN	NONE
04-Agric-B7, Principles of Hydrology	3	OPEN	NONE
04-Agric-B11, Principles of Waste Management	3	OPEN	NONE

Name of Subject Biomedical/Biochemical	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
04-Bio-A1, Biomaterials and Biocompatibility	3	OPEN	NONE
04-Bio-A2, Process Dynamics and Control	3	OPEN	NONE
04-Bio-A7, Fluid Mechanics	3	OPEN	NONE
04-Bio-B6, Bioinstrumentation	3	OPEN	NONE
04-Bio-B12, Applied Optics/Photonics	2	OPEN	NONE

Name of Subject Building	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
07-Bld-A5, Building Science	3	OPEN	NONE
07-Bld-A6, Geotechnical Materials and Analysis	2	CLOSED	NONE

Name of Subject Chemical	Format	Closed or Open Book	Aids/Instructions to the Candidates
	1,2, or 3		
16-Chem-A1, Process Balances and Chemical Thermodynamics	3	OPEN	NONE
16-Chem-A2, Unit Operations and Separation Processes	3	OPEN	Candidates can bring ONE textbook of their choice. The textbook can have notations listed on the margins but no loose notes are permitted.
16-Chem-A3, Heat and Mass Transfer	3	OPEN	One textbook of choice with notations listed on the margins but no loose notes are permitted.
16-Chem-A4, Chemical Reactor Engineering	3	OPEN	Candidates can bring ONE textbook of their choice. The textbook can have notations listed on the margins but no loose notes are permitted. Candidates should have unit conversion tables and/or mathematical tables such as a CRC handbook.
16-Chem-A5, Chemical Plant Design and Economics	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Chem-A6, Process Dynamics & Control	3	OPEN	NONE
16-Chem-B1, Transport Phenomena	3	OPEN	One textbook of choice with notations listed on the margins, but no loose notes are permitted.
16-Chem-B2, Environmental Engineering	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. Candidates MUST write the name and model number of their calculator on the inside front cover of the exam book.
16-Chem-B4, Biochemical Engineering	2	CLOSED	NONE
16-Chem-B6, Petroleum Refining and Petrochemicals	3	OPEN	NONE

Name of Subject Civil	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
16-Civ-A1, Elementary Structural Analysis	2	CLOSED	NONE
16-Civ-A2, Elementary Structural Design	2	CLOSED	Handbooks and textbooks are permitted. <u>NO</u> notes or loose sheets are allowed. Candidates MUST write the name and model number of their calculator on the inside front cover of the exam book. Note: The solutions for Standards of Steel, Concrete & Timber must come from the latest manual editions.
16-Civ-A3, Municipal and Environmental Engineering	2	OPEN	NONE
16-Civ-A4, Geotechnical Materials and Analysis	2	CLOSED	NONE
16-Civ-A5, Hydraulic Engineering	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Civ-A6, Highway Design, Construction and Maintenance	2	CLOSED	NONE
16-Civ-B1, Advanced Structural Analysis	2	CLOSED	NONE
16-Civ-B2, Advanced Structural Design	2	CLOSED	Design handbooks and textbooks are permitted. <u>NO notes or loose sheets are allowed.</u> Candidates MUST write the name and model number of their calculator on the inside front cover of the exam book.
16-Civ-B3, Geotechnical Design	3	OPEN	It is to the candidate's advantage to bring the Canadian Foundation Manual.
16-Civ-B5, Water Supply & Wastewater Treatment	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Civ-B6, Urban & Regional Planning	2	CLOSED	NONE
16-Civ-B7, Transportation Planning and Engineering	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Civ-B8, Management of Construction	2	CLOSED	NONE
16-Civ-B9, The Finite Element Method	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Civ-B10, Traffic Engineering	3	OPEN	NONE
16-Civ-B11, Structural Materials	3	OPEN	Candidates can bring ONE textbook of their choice. The textbook can have notations listed on the margins but no loose notes are permitted.

Name of Subject Computer	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
17-Comp-A1, Electronics	3	OPEN	NONE
17-Comp-A2, Digital Systems Design	2	CLOSED	NONE
া7-Comp-A4, Program Design and Data Structures	1	CLOSED	NONE
17-Comp-A5, Operating Systems	2	CLOSED	NONE
17-Comp-A6, Software Engineering	1	CLOSED	NONE
17-Comp-B10, Distributed Systems	2	CLOSED	NONE
17-Comp-B11, Advanced Software Design	1	CLOSED	Candidates are allowed to bring ONE aid sheets 8.5" X 11" hand-written on both sides containing notes and formulae.

Name of Subject Electrical	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
16-Elec-A1, Circuits	2	CLOSED	NONE
16-Elec-A2, Systems and Control	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. <u>The</u> <u>aid sheet must be signed and</u> <u>submitted with the written exam paper.</u>
16-Elec-A3, Signals and Communications	2	CLOSED	NONE
16-Elec-A4, Digital Systems and Computers	2	CLOSED	NONE
16-Elec-A5, Electronics	2	CLOSED	NONE
16-Elec-A6, Power Systems and Machines	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. <u>No</u> worked out solutions or diagrams are allowed on this sheet.
16-Elec-A7, Electromagnetics	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Elec-B1, Digital Signal Processing	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
16-Elec-B2, Advanced Control Systems	3	OPEN	NONE
16-Elec-B3, Digital Communications Systems	2	CLOSED	NONE
16-Elec-B4, Information Technology Networks	2	CLOSED	NONE
16-Elec-B5, Advanced Electronics	2	CLOSED	NONE
16-Elec-B7, Power Systems Engineering	3	OPEN	NONE
16-Elec-B8, Power Electronics and Drives	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. <u>No</u> worked out solutions or diagrams are allowed on this sheet.

Name of Subject Environmental	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
18-Env-A1, Principles of Environmental Engineering	2	CLOSED	Candidates are allowed to bring TWO aid sheets 8.5" X 11" hand-written on both sides containing notes and formulae
18-Env-A2, Hydrology and Municipal Hydraulics Engineering	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
18-Env-A3, Geotechnical and Hydrogeological Engineering	3	OPEN	NONE
18-Env-A4, Water and Wastewater Engineering	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
18-Env-A5, Air Quality & Pollution Control	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
18-Env-A6, Solid Waste Engineering and Management	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
18-Env-B4, Site Assessment and Remediation	3	OPEN	NONE
18-Env-B5, Industrial & Hazardous Waste Management	3	OPEN	NONE
18-Env-B6, Agricultural Waste Management	3	OPEN	NONE
18-Env-B7, Environmental Sampling and Analysis	2	CLOSED	NONE

Name of Subject Geological	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
18-Geol-A1, Mineralogy and Petrology	1	CLOSED	NONE
18-Geol-A2, Hydrogeology	3	OPEN	NONE
18-Geol-A4, Structural Geology	2	CLOSED	Protractor, drawing compass and ruler are permitted.
18-Geol-A6, Soil Mechanics	2	CLOSED	NONE
18-Geol-A7, Applied Geophysics	2	CLOSED	NONE
18-Geol-B3, Site Investigation	3	OPEN	NONE
18-Geol-B10-1, Gravity & Magnetics Fields	1	CLOSED	NONE

Name of Subject	Format	Closed or Open	Aids/Instructions to the Candidates
Geomatics	1,2, or 3	Book	
18-Geom-A2, Adjustment of Observations and Data Analysis	2	CLOSED	NONE

Name of Subject Industrial	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
17-Ind-A1, Operations Research	3	OPEN	NONE
17-Ind-A2, Analysis and Design of Work	2	CLOSED	NONE
17-Ind-A3, Facilities Planning	2	CLOSED	NONE
17-Ind-A4, Production Management	2	CLOSED	NONE
17-Ind-A5, Quality Planning, Control, and Assurance	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
17-Ind-A6, Systems Simulation	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
17-Ind-B1, Applied Probability and Statistics	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
17-Ind-B2, Manufacturing Processes	2	CLOSED	NONE
17-Ind-B5, Ergonomics	3	OPEN	NONE

Name of Subject Mechanical	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
16-Mec-A1, Applied Thermodynamics and Heat Transfer	3	OPEN	Candidates are expected to have copies of both a thermodynamics text AND a heat transfer text in order to make use of the information presented in the tables and graphs. Candidates MUST write the name and model number of their calculator on the inside front cover of the exam book.
16-Mec-A2, Kinematics and Dynamics of Machines	3	OPEN	NONE
16-Mec-A3, System Analysis and Control	2	CLOSED	NONE
16-Mec-A4, Design and Manufacture of Machine Elements	3	OPEN	NONE
16-Mec-A5, Electrical and Electronics Engineering	2	CLOSED	NONE
16-Mec-A6, Advanced Fluid Mechanics	2	OPEN	NONE
16-Mec-A7, Advanced Strength of Materials	3	OPEN	NONE
16-Mec-B1, Advanced Machine Design	3	OPEN	NONE
ୀ6-Mec-B2, Environmental Control in Buildings	3	OPEN	ONLY textbooks and reference books permitted. NO NOTES AND SOLVED PROBLEMS.
16-Mec-B3, Energy Conversion and Power Generation	2	CLOSED	NONE
¹ 6-Mec-B4, Integrated Manufacturing Systems	3	OPEN	NONE
16-Mec-B5, Product Design and Development	2	OPEN	NONE
16-Mec-B6, Fluid Machinery	2	CLOSED	Drawing instruments (scale ruler, protractor and sharp pencil) are required for vector diagrams.
16-Mec-B8, Engineering Materials	3	OPEN	NONE
16-Mec-B9, Advanced Engineering Structures	3	OPEN	NONE
16-Mec-B12, Robot Mechanics	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.

Name of Subject Metallurgical	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
10-Met-A3, Metal Extraction Processes	2	CLOSED	NONE
10-Met-A4, Structure of Materials	2	CLOSED	NONE
10-Met-A5, Mechanical Behaviour and Fracture of Materials	2	CLOSED	NONE

Name of Subject Mechatronics	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
16-Mex-A2, Circuits and Electronics	2	CLOSED	NONE
ୀ6-Mex-A5	3	OPEN	NONE
්6-Mex-B4, Environmental Control in Buildings	3	OPEN	ONLY textbooks and reference books permitted. NO NOTES AND SOLVED PROBLEMS.
16-Mex-B8, Product Design and Development	2	OPEN	NONE
ୀ6-Mex-B10, Power Systems and Machines	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. <u>No</u> <u>worked out solutions are allowed on</u> <u>this sheet.</u>

Name of Subject Manufacturing	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
08-Mfg-A3, Production Management	2	CLOSED	NONE
08-Mfg-A4, Analysis and Design of Work	2	CLOSED	NONE
08-Mfg-A6, Quality Planning, Control and Assurance	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
08-Mfg-B3, Systems Simulation	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
08-Mfg-B6, Metrology	3	OPEN	NONE
08-Mfg-B8, Robot Mechanics	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
08-Mfg-B9, Industrial Safety and Health	1	CLOSED	NONE
08-Mfg-B10, Tooling, Jigs and Fixture Design	3	OPEN	NONE

Name of Subject Mining and Mineral Processing	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
18-MMP-A2, Underground Mining Methods and Design	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
18-MMP-B2, Rock Fragmentation	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.

Name of Subject	Format	Closed or Open	Aids/Instructions to the Candidates
Materials	1,2, or 3	Book	
12-MtI-A2, Transport Phenomena in Materials Engineering	3	OPEN	One textbook of choice with notations listed on the margins, but no loose notes are permitted.

Name of Subject Naval Architecture	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
16-Nav-A2, Hydrodynamics of Ships (1): Resistance and Propulsion	2	CLOSED	NONE
16-Nav-A3, Hydrodynamics of Ships (II): Ship Motion	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.

Name of Subject Nuclear	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
08-Nuc-B2, Radiation Protection	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae. <u>No</u> <u>worked out solutions or diagrams</u> <u>are allowed on this sheet.</u>
08-Nuc-B4, Waste Management	2	CLOSED	NONE

Name of Subject Petroleum	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
17-Pet-A5, Petroleum Production Operations	3	OPEN	NONE
17-Pet-A6, Reservoir Mechanics	3	OPEN	NONE
17-Pet-B1, Well Logging and Formation Evaluation	2	CLOSED	NONE

Name of Subject Engineering Physics	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
17-Phys-A3, Electromagnetics	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.
17-Phys-A4, Quantum Mechanics	2	CLOSED	NONE

Name of Subject \$tructural	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates	
07-Str-A1, Elementary Structural Analysis	2	CLOSED	NONE	
07-Str-A2, Elementary Structural Design	2	CLOSED	Handbooks and textbooks are permitted. <u>NO notes or loose sheets are allowed</u> . Candidates MUST write the name and model number of their calculator on the inside front cover of the exam book. Note: The solutions for Standards of Steel, Concrete & Timber must come from the latest manual editions.	
17-Str-A3, Geotechnical Materials and Analysis	2	CLOSED	NONE	
07-Str-A4, Advanced Structural Analysis	2	CLOSED	NONE	
07-Str-A5, Advanced Structural Design	2	CLOSED	Design handbooks and textbooks are permitted. <u>NO notes or loose sheets are</u> <u>allowed.</u> Candidates MUST write the name and model number of their calculator on the inside front cover of the exam book.	
07-Str-A6-1, Applications of Finite Elements	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.	
07-Str-B1, Geotechnical Design	3	OPEN	It is to the candidate's advantage to bring the Canadian Foundation Manual.	
07-Str-B2, Management of Construction	2	CLOSED	NONE	
07-Str-B5, Foundation Engineering	3	OPEN	NONE	
07-Str-B10, Earthquake Engineering	2	OPEN	NONE	
07-Str-B11, Hydraulic Engineering	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.	

Name of Subject Transportation	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
07-Tra-A3, Traffic Engineering	3	OPEN	NONE
07-Tra-A5, Transportation Planning and Demand Analysis	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.

Name of Subject Water Resources	Format 1,2, or 3	Closed or Open Book	Aids/Instructions to the Candidates
07-Wrse-A6, Municipal and Environmental Engineering	2	OPEN	NONE
07-Wrse-A7-1, Irrigation, Drainage and Erosion Control	3	OPEN	NONE
07-Wrse-B3, Water Supply & Wastewater Treatment	2	CLOSED	Candidates are allowed to bring ONE aid sheet 8.5" X 11" hand-written on both sides containing notes and formulae.

December 2019 Technical Location Sheet December 9, 10, 11, 12, 13, 2019				
City	Location	Report To:		
HAMILTON	McMaster University John Hodgins Engineering (JHE-A102) 1280 Main St. W. Hamilton, ON L8S 4L7	Ginny Riddell and Janet Delsey		
KINGSTON	Royal Military College – Sawyer Theatre - Rm. S1303 Please go to the security office to sign in and you can get directions to the room.	Steve Vanvolkingburgh		
LAKEHEAD THUNDERBAY	Lakehead University, University Centre Building; Room UC1001 (student central) 955 Oliver Road, Thunder Bay tbay-campus-map.p df	Nikki Maronese		
LONDON	University of Western Ontario, Claudette MacKay-Lassonde Pavilion "CMLP 60A" and 60B	Basem Haroun		
NIAGARA, ST. CATHARINES	St. Andrews Church ; 5645 Morrison St Niagara Falls ON L2E 2E8 ; Tel: 905-356-1624 Signs will be posted for exact room.	George Melvin		
οτταψά	University of Ottawa, Tabaret (TBT) 550 Cumberland Street, Ottawa, Ontario: K1N 6N8. You Should report to the third floor foyer to be allocated to rooms on the third floor	James O'Malley		
PETERBOROUGH	General Electric Canada; 107 Park Street N.; go to Visitor entrance at Park St. and enter through main doors check reception area for exact room number.	Dan Manns		
SARNIA	Lambton College, 1457 London Road, Room B1-107 Sarnia ON N7S 6K4	Connie Byrns		
SUDBURY	Laurentian University, 935 Ramsey Lake Rd. go to Room F-215C, Science II/Fraser Building of the Campus for further instructions regarding the exact room assigned.	Ramesh Subramanian		
TORONTO	Victoria University (VC) the building is located east of top (north) edge of the Queen's Park oval. The nearest intersection is Queen's Park and Charles Street (Museum Subway Station). From Museum Subway go east on Charles Street, enter the first passage between building on the right and you may enter the side door of VC building. Nearest small parking is on Joseph Street. The Alumni Hall (VC 112) is located at the main floor of the Victoria Building The address is 91 Charles St West, Toronto, On M5S 1K7	Peter Gladysz		
WINDSOR	St. Clair College, 2000 Talbot Road, South Campus, Room 2001 Ford Building Check security located at entrance of main building if having difficulty finding the room.	Todd Shaw		