



ISOLDE XIV

International Symposium on Locational Decisions



Rotman School of Management
UNIVERSITY OF TORONTO

TORONTO & HUNTSVILLE, ONTARIO, CANADA | JULY 9-14, 2017

ISOLDE XIV CONFERENCE

INTERNATIONAL SYMPOSIUM ON LOCATIONAL DECISIONS

TORONTO & HUNTSVILLE, ONTARIO, CANADA
JULY 9-14, 2017

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CONFERENCE COORDINATOR TALIA MONDOWSKY, DETAILED EVENTS BY TM

ASSISTANT EVENT MANAGER ELENA STEBAEVA

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SUPPORTED BY ROTMAN SCHOOL OF MANAGEMENT, UNIVERSITY OF TORONTO

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CONFERENCE TIMETABLE

SUNDAY JULY 9 ROTMAN

7:00 AM - 5:00 PM

**NIAGARA FALLS & NIAGARA
ON THE LAKE TOUR (OPTIONAL)**
MEET AT ENTRANCE OF 105 ST. GEORGE
STREET

5:00 - 6:00 PM

CONFERENCE REGISTRATION
DESAUTELS HALL

6:00 - 8:00 PM

WELCOME RECEPTION
DESAUTELS HALL

MONDAY JULY 10 ROTMAN

8:30 - 9:00 AM

BREAKFAST
DESAUTELS HALL

9:00 - 10:20 AM

OPENING PLENARY
DESAUTELS HALL

10:20 AM - 12:00 PM

**M2A: STOCHASTIC
LOCATION I**
LL1060

**M2B: DISCRETE
LOCATION I**
LL1020

12:00 - 1:30 PM

LUNCH

1:30 - 3:10 PM

**M3A: STOCHASTIC
LOCATION II**
LL1060

**M3B: HUB
LOCATION PANEL**
LL1020

3:10 - 3:20 PM

COFFEE BREAK

3:20 - 5:00 PM

**M4A: STOCHASTIC
LOCATION III**
LL1060

**M4B: HUB
LOCATION I**
LL1020

5:00 - 5:20 PM

COFFEE BREAK

3:20 - 5:00 PM

**M5A:
APPLICATIONS/
GENERALIZED
MODELS I**
LL1060

**M5B: HUB
LOCATION II**
LL1020

TUESDAY JULY 11 ROTMAN

9:00 - 10:40 AM

**T1A: COMPETITIVE
LOCATION I**
LL1060

**T1B: HUB
LOCATION III**
LL1020

10:40 - 11:00 AM

COFFEE BREAK

11:00 AM - 12:40 PM

**T2A: DISCRETE
LOCATION II**
LL1060

**T2B: CONTINUOUS
LOCATION I**
LL1020

12:40 - 2:00 PM

LUNCH

2:00 - 3:40 PM

**T3A: DISCRETE
LOCATION III**
LL1060

**T3B: CONTINUOUS
LOCATION II**
LL1020

3:40 - 4:00 PM

COFFEE BREAK

4:00 - 5:00 PM

**T4A:
MULTI ECHELON/
MULTI TIME
PERIOD I**
LL1060

**T4B: CONTINUOUS
LOCATION III**
LL1020

7:00 - 10:00 PM

TORONTO DINNER

WEDNESDAY JULY 12 HIDDEN VALLEY

7:30 AM

TRANSFER TO HUNTSVILLE
BOARD BUS OUTSIDE
105 ST. GEORGE STREET

10:30 AM - 6:00 PM

ALGONQUIN PARK

6:00 PM

ARRIVE HUNTSVILLE, HIDDEN VALLEY

THURSDAY JULY 13 HIDDEN VALLEY

9:00 - 10:40 AM

**R1: MULTI ECHELON/
MULTI TIME PERIOD II**
HIGHLAND BALLROOM

10:40 - 11:00 AM

COFFEE BREAK

11:00 AM - 12:40 PM

**R2: MULTI ECHELON/
MULTI TIME PERIOD III**
HIGHLAND BALLROOM

12:40 - 1:30 PM

LUNCH

HIGHLAND BALLROOM

1:30 - 3:10 PM

**R3: APPLICATIONS / GENERALIZED
MODELS II**
HIGHLAND BALLROOM

3:10 - 3:40 PM

COFFEE BREAK

3:40 - 5:00 PM

R4: DISCRETE IV
HIGHLAND BALLROOM

FRIDAY JULY 14 HIDDEN VALLEY

9:00 - 10:40 AM

**F1: APPLICATIONS/
GENERALIZED MODELS III**
HIGHLAND BALLROOM

10:40 - 11:00 AM

COFFEE BREAK

11:00 AM - 12:40 PM

**F2: APPLICATIONS/
GENERALIZED MODELS IV**
HIGHLAND BALLROOM

12:40 - 1:30 PM

LUNCH

HIGHLAND BALLROOM

1:30 - 3:15 PM

F3: DISCRETE V
HIGHLAND BALLROOM

7:00 - 10:00 PM

CONFERENCE DINNER

DETAILED SCHEDULE

MONDAY JULY 10, 2017

9:00-10:20 am **M1: OPENING PLENARY** DESAUTELS HALL

OPENING REMARKS

DMITRY KRASS

SOME THOUGHTS ON THE EVOLUTION OF MODERN LOCATION SCIENCE: FROM TORRICELLI TO TRUMP

GILBERT LAPORTE

10:20 AM - NOON **SESSIONS M2A & M2B**



M2A: STOCHASTIC LOCATION I

ODED BERMAN

ROOM LL1060

A STOCHASTIC PROGRAMMING MODEL FOR EMERGENCY SUPPLY PLANNING CONSIDERING TRAFFIC CONGESTION
QINGYI WANG

THE EFFECT OF PRODUCT'S SHORT LIFECYCLE ON NETWORK DESIGN
DIEGO RUIZ-HERNANDEZ

LOCATION OF RECHARGING STATIONS UNDER DEMAND UNCERTAINTY IN A ONE-WAY ELECTRIC CAR SHARING SYSTEM
HATICE CALIK

RESPONSIVE MAKE-TO-ORDER SUPPLY CHAIN NETWORK DESIGN
ODED BERMAN

M2B: DISCRETE LOCATION I

JUAN A. MESA

ROOM LL1020

SOLVING THE P-MEDIAN RADIUS FORMULATION WITH LAGRANGIAN RELAXATION
SERGIO GARCÍA QUILES

A RANGE-RESTRICTED RECHARGING STATION COVERAGE MODEL FOR DRONE DELIVERY SERVICE PLANNING
INSU HONG

HOMOGENEOUS AND MIXED WEIGHT OPEN LOCATING-DOMINATING SETS
BLAIR SWEIGART

LOCATION OF A RAPID TRANSIT LINE WITH FEEDER BUSES
JUAN A. MESA

NOON - 1:30 PM **LUNCH** DESAUTELS HALL



1:30 - 3:10 PM **SESSIONS M3A & M3B**



M3A: STOCHASTIC LOCATION II

ANTONIO MANUEL RODRÍGUEZ-CHÍA

ROOM LL1060

RISK-AWARE CAPACITATED PLANT LOCATION PROBLEM WITH EXTENSIONS – A STEP TOWARDS A RISK-AWARE SUPPLY CHAIN DESIGN
IRIS HECKMANN

MINMAX REGRET MAXIMAL COVERING LOCATION PROBLEMS ON NETWORKS WITH EDGE DEMAND
JÖRG KALCSICS

MINIMIZING THE CONDITIONAL VALUE-AT-RISK OF A TWO-STAGE STOCHASTIC TRANSPORTATION PROBLEM
YOLANDA HINOJOSA

A GENERALIZATION OF THE P-CENTER PROBLEM WITH UNCERTAINTY IN THE DEMAND
ANTONIO MANUEL RODRÍGUEZ-CHÍA

M3B: HUB LOCATION PANEL

SIBEL ALUMUR, JAMES CAMPBELL

ROOM LL1020

PANEL DISCUSSION
MORTON O'KELLEY

PANEL DISCUSSION
BAHAR KARA

PANEL DISCUSSION
IVAN CONTRERAS

PANEL DISCUSSION
VLADIMIR MARIANOV



3:10 - 3:20 PM

COFFEE BREAK



3:20 - 5:00 PM

SESSIONS M4A & M4B



M4A: STOCHASTIC LOCATION III

DMITRY KRASS

ROOM LL1060

UTILIZING CHANCE CONSTRAINTS TO ALLOW SHORT TERM PROCESSING CAPACITY FLEXIBILITY
KAYSE MAASS

PREVENTIVE HEALTH CARE FACILITY LOCATION PLANNING WITH QUALITY-CONSCIOUS CLIENTS
RALF KROHN

A ROBUST COVERING MODEL FOR AMBULANCE LOCATION PROBLEM
HOZUMI MOROHOSI

UNIFORM PRICING AND NODAL OPTIMALITY IN STOCHASTIC LOCATION MODELS WITH ELASTIC DEMAND
DMITRY KRASS

M4B: HUB LOCATION I

NAVNEET VIDYARTHI

ROOM LL1020

A MATHEMATICAL MODEL FOR THE INTERMODAL TERMINALS LOCATION PROBLEM
ERWIN DELGADO

THE PLANAR 2-HUB SINGLE ALLOCATION PROBLEM WITH BLOCK NORMS
THOMAS ULLMERT

EXPLOITING SPATIAL SEPARABILITY OF UNCAPACITATED SINGLE ALLOCATION P-HUB MEDIAN PROBLEMS
TAGHI KHANIYEV

NETWORK HUB INTERDICTION AND PROTECTION PROBLEMS
NAVNEET VIDYARTHI

5:00 - 5:20 PM

COFFEE BREAK



5:20 - 6:35 PM

SESSIONS M5A & M5B



M5A: APPLICATIONS / GENERALIZED MODELS I

RICHARD CHURCH

ROOM LL1060

COMPARING THE GENERALIZED SPATIALLY CORRELATED LOGIT (GSCL) AND THE SPATIALLY WEIGHTED ERROR CORRELATION (SWEC) MODEL FOR CAPTURING THE INTRICACIES OF SPATIAL CHOICES
ADAM WEISS

LOCATION DECISION FOR THE INSTALLATION OF URBAN GREEN ROOFS
SO YOUNG SOHN

LOCATION MODELLING AND THE EFFICIENT PROVISION OF PUBLIC SERVICES
RICHARD CHURCH

M5B: HUB LOCATION II

MIHIRO SASAKI

ROOM LL1020

MULTIPLE ALLOCATION P-HUB LOCATION PROBLEMS WITH THRESHOLD-BASED COST STRUCTURES
ARMIN LÜER-VILLAGRA

PROFIT MAXIMIZING HUB LOCATION PROBLEMS
GITA TAHERKHANI

AIRLINE NETWORK DESIGN WITH OPENING/CLOSING POINT-TO-POINT SERVICES
MIHIRO SASAKI

DETAILED SCHEDULE

TUESDAY JULY 11, 2017

9:00 - 10:40 AM

SESSIONS T1A & T1B



T1A: COMPETITIVE LOCATION I

ANDREY MELNIKOV

ROOM LL1060

BRANCH-AND-CUT ALGORITHMS FOR MAXIMUM CAPTURE FACILITY LOCATION PROBLEMS WITH RANDOM UTILITIES
EDUARDO MORENO

LAGRANGIAN RELAXATION-BASED APPROACH FOR RAPID TRANSIT NETWORK DESIGN: CONSIDERING COMPETITION EFFECTS AND TRANSFERS
LUIS CADARSO

A VNS APPROACH FOR THE COMPETITIVE BI-LEVEL BASE STATION LOCATION PROBLEM
IVAN DAVYDOV

EXACT METHOD FOR THE COMPETITIVE FACILITY LOCATION PROBLEM WITH QUANTILE CRITERION
ANDREY MELNIKOV

T1B: HUB LOCATION III

IVAN CONTRERAS

ROOM LL1020

HUB-AND-SPOKE NETWORK DESIGN WITH CIRCULAR BI-MODAL SHUTTLE SERVICES
SHAHIN GELAREH

A GRASP ALGORITHM FOR THE SINGLE ALLOCATION P-HUB LOCATION-ROUTING PROBLEM
NATHALIE BOSTEL

A HEURISTIC ALGORITHM FOR THE STOCHASTIC UNCAPACITATED R-ALLOCATION P-HUB MEDIAN PROBLEM
FRANCISCO SALDANHA-DA-GAMA

EXACT SOLUTION OF HUB NETWORK DESIGN PROBLEMS WITH PROFITS
IVAN CONTRERAS

10:40 - 11:00 PM

COFFEE BREAK



11:00 AM - 12:40 PM

SESSIONS T2A & T2B



T2A: DISCRETE LOCATION II

TERESA SCHNEPPER

ROOM LL1060

A LAGRANGEAN RELAXATION ALGORITHM FOR THE SIMPLE PLANT LOCATION PROBLEM WITH PREFERENCES
XAVIER CABEZAS

MAXIMUM FLOW-COVERING LOCATION AND SCHEDULING PROBLEM
KEN-ICHI TANAKA

BRANCH&PRICE APPROACHES FOR THE MONOTONE ORDERED MEDIAN PROBLEM
DIEGO PONCE

DIFFERENT APPROACHES FOR HANDLING OUTLIERS IN CENTER LOCATION PROBLEMS ON NETWORKS
TERESA SCHNEPPER

T2B: CONTINUOUS LOCATION I

ZVI DREZNER

ROOM LL1020

CONTINUOUS LOCATION MODEL OF A RECTANGULAR BARRIER FACILITY
MASASHI MIYAGAWA

FACILITY LOCATION PROBLEM BASED ON THE PAIRWISE COMPARISONS BY RESIDENTS
TAKAMORI UKAI

ON SOLVING PLANAR LOCATION PROBLEMS WITH FORBIDDEN REGIONS
ANDREA MAIER

THE MULTIPLE OBNOXIOUS FACILITIES LOCATION PROBLEM ON THE PLANE: A VORONI BASED HEURISTIC
ZVI DREZNER

12:40 - 2:00 PM

LUNCH LOWER LEVEL





2:00 - 3:40 PM

SESSION T3A & T3B



T3A: DISCRETE LOCATION III

HORST W. HAMACHER

ROOM LL1060

A HYBRID HEURISTIC TO SOLVE A P-MEDIAN BILEVEL PROBLEM

JOSÉ-FERNANDO CAMACHO-VALLEJO

LOCATION MODELING TO SUPPORT SUSTAINABLE URBAN LAND USE PLANNING

JING YAO

A NEW COMPACT FORMULATION FOR THE DISCRETE P-DISPERSION PROBLEM

DAVID SAYAH

FLOWLOC PROBLEMS AND THE ROLE OF ALL-PAIR MATRICES

HORST W. HAMACHER

T3B: CONTINUOUS LOCATION II

JACK BRIMBERG

ROOM LL1020

A DIRECTIONAL APPROACH TO GRADUAL COVER

TAMMY DREZNER

THE CENTER PROBLEM WITH A FIXED GATE-POINT TRIANGULATION

MARCO BOTTE

BIG TRIANGLE SMALL TRIANGLE METHOD FOR SPHERE WEBER PROBLEM USING SPHERE DELAUNEY TRIANGULATION

ATSUO SUZUKI

LOCATING A LINEAR FACILITY FOR THE FAMILY OF IP NORMS

JACK BRIMBERG

3:40 - 4:00 PM

COFFEE BREAK



4:00 - 5:40 PM

SESSION T4A & T4B



T4A: MULTI ECHELON/ MULTI TIME PERIOD I

MIGUEL POZO

ROOM LL1060

A MULTI-PERIOD FACILITY LOCATION PROBLEM WITH MODULAR CAPACITY ADJUSTMENTS AND FLEXIBLE DEMAND FULFILLMENT

ISABEL CORREIA

MAINTENANCE LOCATION ROUTING FOR ROLLING STOCK: ROBUST AND STOCHASTIC PROGRAMMING FORMULATIONS

JOACHIM ARTS

RELIABILITY NETWORK DESIGN FOR AN AIRCRAFT DOOR MANAGEMENT SYSTEM

LUKAS SCHAEFER

LOCATING PUBLIC TRANSPORT TIMETABLES UNDER THE P-MEDIAN CRITERION

MIGUEL POZO

T4B: CONTINUOUS LOCATION III

THOMAS BYRNE

ROOM LL1020

SOLVING MINIMAX LOCATION PROBLEMS VIA EPIGRAPHICAL PROJECTION I

GERT WANKA

SOLVING MINIMAX LOCATION PROBLEMS VIA EPIGRAPHICAL PROJECTION II

OLEG WILFER

ALLOCATION PROBLEM SOLVED THROUGH VORONOI DIAGRAM IN HETEROGENEOUS SPACE

XIN (SELINA) FENG

LOCATION PROBLEMS WITH CONTINUOUS DEMAND ON A POLYGON WITH HOLES: CHARACTERISING STRUCTURAL PROPERTIES OF GEODESIC VORONOI DIAGRAMS

THOMAS BYRNE

7:00 - 10:00 PM

TORONTO DINNER AT HART HOUSE



DETAILED SCHEDULE

WEDNESDAY JULY 12, 2017



7:30 AM

TRANSFER TO HUNTSVILLE



Meet at Entrance of 105 St. George Street

10:30 - 6:00 PM

ALGONQUIN PARK



6:00 PM

ARRIVE HUNTSVILLE, HIDDEN VALLEY



DETAILED SCHEDULE

THURSDAY JULY 13, 2017



9:00 - 10:40 AM

SESSION R1



R1: MULTI ECHELON/ MULTI TIME PERIOD II

BRITA ROHRBECK

HIGHLAND BALLROOM, HIDDEN VALLEY

REDUCING CONSTRUCTION CARBON EMISSIONS IN LOGISTICS: THE DYNAMIC BOWSER ROUTING PROBLEM

BELEN MARTÍN-BARRAGÁN

SOLVING A GREEN LOGISTICS BI-LEVEL BI-OBJECTIVE PROBLEM BY A NOVEL APPLICATION OF PATH RELINKING

JOSE LUIS GONZALEZ-VELARDE

REDESIGN OF A FOOD BANK SUPPLY CHAIN CONSIDERING ECONOMIC, ENVIRONMENTAL AND SOCIAL ISSUES

TERESA MELO

LOCATION PLANNING OF CHARGING STATIONS FOR ELECTRIC CITY BUSES CONSIDERING BATTERY AGEING EFFECTS

BRITA ROHRBECK

10:40 - 11:00 AM

COFFEE BREAK



11:00 AM - 12:40 PM

SESSION R2



R2: MULTI ECHELON/ MULTI TIME PERIOD III

STEFAN NICKEL

HIGHLAND BALLROOM, HIDDEN VALLEY RESORT

DESIGN OF A MULTI-ECHELON SUPPLY CHAIN NETWORK WITH TRANSPORTATION MODE SELECTION AND OUTSOURCING OPPORTUNITIES

MARIA CORTINHAL

DYNAMIC LOCATION PROBLEMS UNDER UNCERTAINTY: DECIDING WHEN TO START BUILDING NEW FACILITIES

JOANA DIAS

AN EXACT ALGORITHM FOR MULTI-LEVEL UNCAPACITATED FACILITY LOCATION PROBLEMS **CAMILO ORTIZ ASTORQUIZA**

TIME TRAPS IN SUPPLY CHAINS: IS OPTIMAL STILL GOOD ENOUGH? **STEFAN NICKEL**

12:40 - 1:30 PM

LUNCH



1:30 - 3:10 PM

SESSION R3



R3: APPLICATIONS / GENERALIZED MODELS II

BAHAR KARA

HIGHLAND BALLROOM, HIDDEN VALLEY RESORT

LOCATION SELECTION AND TRAVEL DEMAND PREDICTION FOR DYNAMIC URBAN SHUTTLE SERVICE SYSTEM
SUNGHOO CHUNG

REDEFINING THE COLLECTION SYSTEM OF A POSTAL COMPANY
CARMELA PICCOLO

PUBLIC TRANSPORT TARIFF ZONE DESIGN WITH ENDOGENOUS DEMAND
KNUT HAASE

REFUGEE CAMP LOCATION PROBLEM FROM MUNICIPALITIES' PERSPECTIVE
BAHAR KARA

3:10 - 3:40 PM

COFFEE BREAK



3:30 - 4:45 PM

SESSION R4



R4: DISCRETE IV

JUSTO PUERTO

HIGHLAND BALLROOM, HIDDEN VALLEY RESORT

A GENETIC ALGORITHM FOR SOLVING THE DISCRETE ORDERED MEDIAN PROBLEM WITH INDUCED ORDER
ENRIQUE DOMINGUEZ

DISCRETE ORDERED MEDIAN PROBLEMS WITH NEIGHBORHOODS
VÍCTOR BLANCO

SET PARTITIONING FORMULATIONS FOR THE ORDERED MEDIAN PROBLEM
JUSTO PUERTO

DETAILED SCHEDULE

FRIDAY JULY 14, 2017



9:00 - 10:40 AM

SESSION F1



F1: APPLICATIONS / GENERALIZED MODELS III

ANITA SCHOEBEL

HIGHLAND BALLROOM, HIDDEN VALLEY RESORT

A MULTICRITERIA LOCATION DECISION PROCEDURE **H.A. EISELT**

RECOVERABLE ROBUST MAINTENANCE LOCATION ROUTING FOR ROLLING STOCK **DENISE TONISSEN**

ON EQUITY IN SALES TERRITORY ALIGNMENT **SVEN MÜLLER**

THE SEARCH FOR THE TREE OF LIFE: A LOCATION PROBLEM IN THE PHYLOGENETIC TREE SPACE **ANITA SCHOEBEL**

10:40 - 11:00 AM

COFFEE BREAK



11:00 AM - 12:40 PM

SESSION F2



F2: APPLICATIONS / GENERALIZED MODELS IV

MICHAEL KUBY

HIGHLAND BALLROOM, HIDDEN VALLEY RESORT

ANALYSIS OF A SVM MODEL WITH FEATURE SELECTION **LUISA I. MARTÍNEZ-MERINO**

SCHEDULING-LOCATION-ROUTING PROBLEMS WITH APPLICATIONS IN EVACUATION PLANNING **CORINNA HEBLER**

LOGISTICS SERVICE NETWORK DESIGN FOR HUMANITARIAN RESPONSE IN EAST AFRICA **GILBERT LAPORTE**

AN ARC COVER/PATH COVER/ZONE COVER MODEL FOR BUILDING A CRITICAL MASS OF ALTERNATIVE-FUEL STATIONS
MICHAEL KUBY

12:40 - 1:30 PM

LUNCH



1:30 - 3:10 PM

SESSION F3



F3: DISCRETE V

VLADIMIR MARIANOV

HIGHLAND BALLROOM, HIDDEN VALLEY RESORT

FACILITY LOCATION AND DESIGN - A UNIFYING FRAMEWORK **DMITRY KRASS**

THE SIMPLE PLANT LOCATION PROBLEM: A NEW INSIGHT **MERCEDES PELEGRIN**

STORE LOCATION MODELS CONSIDERING MULTIPURPOSE SHOPPING **VLADIMIR MARIANOV**

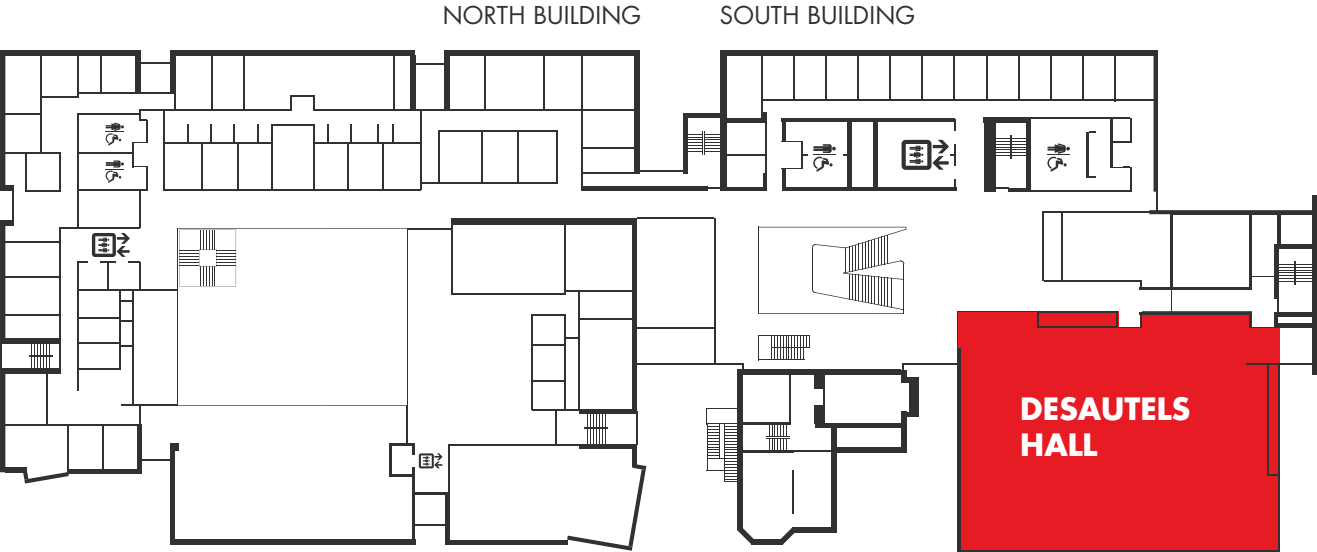
7:00 - 10:00 PM

CONFERENCE DINNER



NAVIGATING THE ROTMAN SCHOOL

SECOND FLOOR



GROUND FLOOR



LOWER LEVEL



NAVIGATING TORONTO

