

STOC '94

The 26th Annual
ACM Symposium on the
Theory of Computing

Montréal (Québec), Canada
May 23–25, 1994

Sponsored by ACM SIGACT
With the support of NSERC

Registration for STOC '94

To qualify for the early registration fee, your registration application must be postmarked by **Monday, April 25**. Refund requests will be honoured until May 2. The non-student registration fee includes the Sunday night reception, the Monday night business meeting, the Tuesday night banquet, coffee breaks, lunches, and a copy of the proceedings. The student fee includes all of the above except the banquet.

Please fill out the form below and send it, along with a check or money order in Canadian or U.S. currency made payable to STOC '94, to:

Pierre McKenzie, STOC registration
Dept. IRO, Université de Montréal
C.P. 6128, succursale centre-ville
Montréal (Québec)
CANADA H3C 3J7

Name _____

Address _____

_____ Postal Code _____

Email _____

Phone _____

FAX _____

Affiliation (for the sole purpose of your name tag):

Please circle one amount below and fill in your membership number if appropriate: #_____. Registrants in the "Other" category will automatically become SIGACT members for a period of one year.

Membership or Category	Fee		After April 25	
	Can\$	US\$	Can\$	US\$
ACM or SIGACT	400	300	500	375
Student	175	130	240	180
Other	500	375	600	450

Check your dietary preference:

Kosher Vegetarian No Restriction

Number of *additional* Botanical Garden banquet tickets
(Can\$80 or US\$60 each):

Number of additional proceedings

(Can\$75 or US\$55 each):

Total included: Can\$ US\$

Hotel Reservations

Deadline: Friday April 22

The conference will be held at the Hôtel Méridien Montréal. The rates for STOC '94 are posted below and apply from May 20 to May 26. To keep our bureaucrats busy and our pulp and paper industry going, GST (7%) and PST (4%) will be added to your bill, but both taxes are refundable to people who are not residents of Canada (refer to the **General Information** section in this programme for the details).

Reservation requests **received** by the hotel after the April 22 deadline are at your own risk: availability and rates are then no longer guaranteed. Refer to STOC '94 when making your reservations to obtain the rates listed. To make reservations by phone, call (514) 285-1450. You may also call 1-800-361-8234 from Canada or 1-800-543-4300 from the U.S. To make reservations by FAX or mail, fill out the form below and either call (514) 285-1243 or send it to the following address.

Le Méridien
ATTN: STOC '94 registration
4 Complexe Desjardins
Montréal (Québec)
CANADA H5B 1E5

Credit card information or a deposit (in the form of a check or money order for one night's stay made payable to the Hôtel Méridien) must be included. Deposits will be refunded if the hotel is notified prior to 6:00 pm on the day of your specified arrival.

Rates: Can\$110 for a single or double room, Can\$125 for a triple room. At the time of this writing, one Canadian dollar is worth approximately US\$0.75.

Check room type: Single Double Triple

Arrival date _____ Departure date _____
check-in time: 3:00 pm check-out time: 12:00 noon

Name _____

Address _____

_____ Phone _____

Sharing with _____

If paying by credit card please complete:

American Express Master Card Visa

Carte Blanche Diner's Club

Credit Card # _____

Expiration date _____

I authorize Le Méridien to charge the above account for the amount equal to one night's stay in case of a no-show.

Signature _____

REPLACE THIS PANEL WITH
THE U.S. MAILING PANEL
(DONE BY ACM)

SUNDAY, MAY 22, 1994
Reception: 8 pm – 11 pm, Grand Salon A

MONDAY, MAY 23, 1994

Session 1A: 8:30 am – 10:10 am, Grand Salon BC
Chair: Roberto Tamassia

- 8:30** *A near optimal algorithm for edge separators:* Fan R.K. Chung, *Bellcore*; S.T. Yau, *Harvard*.
- 8:55** *A randomized linear-time algorithm for finding minimum spanning trees:* Philip Klein, *Brown*; Robert E. Tarjan, *Princeton & NEC*.
- 9:20** *Polylog-time and near-linear work approximation scheme for undirected shortest paths:* Edith Cohen, *AT&T*.
- 9:45** *Faster shortest-path algorithms for planar graphs:* Philip Klein, *Brown*; Satish Rao, *NEC*; Monika Rauch, *Cornell*; Sairam Subramanian, *Brown*.

Session 1B: 8:30 am – 10:10 am, Grand Salon A
Chair: Michael Saks

- 8:30** *On the complexity of negation-limited boolean networks:* Keisuke Tanaka, *Tetsuro Nishino, Japan I.S.T.*
- 8:55** *On the computational power of depth 2 circuits with threshold and modulo gates:* Matthias Krause, *Univ. Dortmund*; Pavel Pudlák, *Academy of Sci. Czech Rep.*
- 9:20** *Circuit complexity: from the worst case to the average case:* Andreas Jakoby, *Rüdiger Reischuk, Christian Schindelhauer, Technische Hochschule Darmstadt*.
- 9:45** *A weight-size trade-off for circuits with MOD m gates:* Vince Grolmusz, *Max Plank Inst.*

Break: 10:10 am – 10:30 am

Plenary session I: 10:30 am – 11:30 am

Chair: Michael T. Goodrich

Grand Salon BC

10:30 Bernard Chazelle, *Princeton*.

Session 2A: 11:30 am – 12:20 am, Grand Salon BC
Chair: David Eppstein

- 11:30** *On point location and motion planning among simplices:* Marco Pellegrini, *King's College, London*.
- 11:55** *On lazy randomized incremental construction:* Mark de Berg, *Univ. Utrecht*; Katrin Dobrindt, *INRIA*; Otfried Schwarzkopf, *Univ. Utrecht*.

Session 2B: 11:30 am – 12:20 am, Grand Salon A
Chair: Bruce Maggs

- 11:30** *Fault-tolerant scheduling:* Bala Kalyanasundaram, Kirk R. Pruhs, *Univ. of Pittsburgh*.
- 11:55** *On the fault tolerance of the butterfly:* Anna R. Karlin, Greg Nelson, *DEC SRC*; Hisao Tamaki, *IBM*.

Lunch break: 12:20–1:45 pm

Session 3A: 1:45 pm – 3:25 pm, Grand Salon BC
Chair: Bruce Maggs

- 1:45** *Efficient routing in all-optical networks:* Prabhakar Raghavan, *IBM*; Eli Upfal, *Weizmann & IBM*.
- 2:10** *Scalable expanders: exploiting hierarchical random wiring:* Eric A. Brewer, Frederic T. Chong, Tom Leighton, *MIT*.
- 2:35** *On contention resolution protocols and associated probabilistic phenomena:* P.D. MacKenzie, C.G. Plaxton, R. Rajaraman, *Univ. of Texas*.
- 3:00** *The minimum latency problem:* Avrim Blum, Prasad Chalasani, *CMU*; Don Coppersmith, Bill Pulleyblank, Prabhakar Raghavan, Madhu Sudan, *IBM*.

Session 3B: 1:45 pm – 3:25 pm, Grand Salon A
Chair: Richard Beigel

- 1:45** *Two prover protocols – low error at affordable rates:* Uri Feige, *Weizmann*; Joe Kilian, *NEC*.
- 2:10** *Improved non-approximability results:* Mihir Bellare, Madhu Sudan, *IBM*.
- 2:35** *Linear low-degree testing and nearly-linear checkable codes:* Alexander Polishchuk, *Univ. of Utah*; Daniel A. Spielman, *MIT*.
- 3:00** *Natural proofs:* Alexander A. Razborov, *Princeton & Steklov Math. Inst.*; Steven Rudich, *CMU*.

Break: 3:25 pm – 3:45 pm

Session 4A: 3:45 pm – 5:25 pm, Grand Salon BC
Chair: Richard Ladner

- 3:45** *Efficient asynchronous distributed symmetry breaking:* Baruch Awerbuch, *MIT & Johns Hopkins*; Lenore J. Cowen, *Rutgers & Johns Hopkins*; Mark A. Smith, *MIT*.
- 4:10** *Time bounds for mutual exclusion and related problems:* Jae-Heon Yang, *Univ. of Maryland*; James H. Anderson, *Univ. of N. Carolina*.
- 4:35** *Simple and efficient leader election in the full information model:* Rafail Ostrovsky, Sridhar Rajagopalan, Umesh Vazirani, *UC Berkeley*.
- 5:00** *A simple constructive computability theorem for wait-free computation:* Maurice Herlihy, *DEC CRL*; Nir Shavit, *Tel Aviv Univ.*

Session 4B: 3:45 pm – 5:25 pm, Grand Salon A
Chair: Peter Shor

- 3:45** *Weakly learning DNF and characterizing statistical query learning using Fourier analysis:* Avrim Blum, Merrick Furst, Jeffrey Jackson, *CMU*; Michael Kearns, *AT&T*; Yishay Mansour, *Tel Aviv Univ.*; Steven Rudich, *CMU*.
- 4:10** *Simulating access to hidden information while learning:* Peter Auer, *Tech. Univ. Graz*; Philip M. Long, *Duke*.

4:35 *On the learnability of discrete distributions:* Michael Kearns, *AT&T*; Yishay Mansour, *Tel Aviv Univ.*; Dana Ron, *Hebrew Univ.*; Ronitt Rubinfeld, *Cornell*; Robert E. Schapire, *AT&T*; Linda Sellie, *Univ. of Chicago*.

5:00 *Choosing a learning team: a topological approach:* Kalvis Apsītis, Rūsiņš Freivalds, *Univ. of Latvia*; Carl H. Smith, *Univ. of Maryland*.

Business Meeting: 9:00 pm – 11:00 pm,
Grand Salon BC

TUESDAY, MAY 24, 1994

Session 5A: 8:30 am – 10:10 am, Grand Salon BC

Chair: Amihoud Amir

8:30 *Optimal parallel suffix tree construction:* Ramesh Hariharan, *NYU*.

8:55 *Symmetry breaking for suffix tree construction:* Suleyman Cenk Sahinalp, *Univ. of Maryland*; Uzi Vishkin, *Univ. of Maryland & Tel Aviv Univ.*

9:20 *Real-time pattern matching and quasi-real-time construction of suffix trees:* S. Rao Kosaraju, *Johns Hopkins*.

9:45 *Faster multidimensional searching:* Arne Andersson, *Lund Univ.*; Torben Hagerup, *Max Plank Inst.*; Johan Håstad, *Royal Inst. Tech.*; Ola Petersson, *Lund Univ.*

Session 5B: 8:30 am – 10:10 am, Grand Salon A

Chair: David Eppstein

8:30 *Color-coding: a new method for finding simple paths, cycles and other small subgraphs within large graphs:* Noga Alon, *Princeton & Tel Aviv Univ.*; Raphael Yuster, Uri Zwick, *Tel Aviv Univ.*

8:55 *Search for the maximum of a random walk:* Andrew M. Odlyzko, *AT&T*.

9:20 *A spectral technique for coloring random 3-colorable graphs:* Noga Alon, *Princeton & Tel Aviv Univ.*; Nabil Kahale, *DIMACS*.

9:45 *Pseudorandomness for network algorithms:* Russell Impagliazzo, *UC San Diego*; Noam Nisan, Avi Wigderson, *Hebrew Univ.*

Break: 10:10 am – 10:30 am

Plenary session II: 10:30 am – 11:30 am

Chair: Joan Feigenbaum

Grand Salon BC

10:30 Bob Kurshan, *AT&T Bell Laboratories*

Session 6A: 11:30 am – 12:20 am, Grand Salon BC

Chair: Vijaya Ramachandran

11:30 *Trade-offs between communication throughput and parallel time:* Yishay Mansour, *Tel Aviv Univ.*; Noam Nisan, *Hebrew Univ.*; Uzi Vishkin, *Univ. of Maryland & Tel Aviv Univ.*

11:55 *Optimal parallel string algorithms: sorting, merging and computing the minimum:* Torben Hagerup, *Max Plank Inst.*

Session 6B: 11:30 am – 12:20 am, Grand Salon A

Chair: Eric Bach

11:30 *The computational complexity of recognizing permutation functions:* Keju Ma, Joachim von zur Gathen, *Univ. of Toronto*.

11:55 *The independence of the modulo p counting principles:* Miklos Ajtai, *IBM*.

Lunch break: 12:20 – 1:45 pm

Session 7A: 1:45 pm – 3:25 pm, Grand Salon BC

Chair: Greg Frederickson

1:45 *Low degree spanning trees of small weight:* Samir Khuller, *Univ. of Maryland*; Balaji Raghavachari, *Univ. of Texas*; Neal Young, *Princeton*.

2:10 *.878-approximation algorithms for MAX CUT and MAX 2SAT:* Michel X. Goemans, *MIT*; David P. Williamson, *Cornell*.

2:35 *An $O(\log k)$ approximation algorithm for the k minimum spanning tree problem in the plane:* Naveen Garg, *IIT, Delhi*; Dorit S. Hochbaum, *UC Berkeley*.

3:00 *Greed is good: approximating independent sets in sparse and bounded-degree graphs:* Magnús Halldórsson, *Japan I.S.T.*; Jaikumar Radhakrishnan, *Tata Inst.*

Session 7B: 1:45 pm – 3:25 pm, Grand Salon A

Chair: Richard Beigel

1:45 *Beyond NP-completeness for problems of bounded width: hardness for the W hierarchy:* Hans L. Bodlaender, *Univ. Utrecht*; Michael R. Fellows, Michael T. Hallett, *Univ. of Victoria*.

2:10 *Simulating quadratic dynamical systems is PSPACE-complete:* Sanjeev Arora, *UC Berkeley*; Yuval Rabani, *MIT*; Umesh Vazirani, *UC Berkeley*.

2:35 *Approximation schemes for PSPACE-complete problems for succinct specification:* M.V. Marathe, H.B. Hunt III, R.E. Stearns, V. Radhakrishnan, *SUNY Albany*.

3:00 *Pseudorandom generators and learning algorithms for AC^0 :* Meera Seetharam, *Kent State Univ.*

Break: 3:25 pm – 3:45 pm

Session 8A: 3:45 pm – 5:25 pm, Grand Salon BC

Chair: Greg Frederickson

3:45 *Improved deterministic approximation algorithms for the multi-commodity flow problem and local competitive routing in dynamic networks:* Baruch Awerbuch, *MIT & Johns Hopkins*; Tom Leighton, *MIT*.

4:10 *Derandomization through approximation: An NC algorithm for minimum cuts:* David R. Karger, Rajeev Motwani, *Stanford*.

- 4:35** *On the k -server conjecture*: Elias Koutsoupias, Christos Papadimitriou, *UC San Diego*.
- 5:00** *An accelerated interior point method whose running time depends only on A* : Stephen A. Vavasis, Yinyu Ye, *Cornell*.

Session 8B: 3:45 pm – 5:25 pm, Grand Salon A

Chair: Joan Feigenbaum

- 3:45** *How to share a function securely*: Alfredo De Santis, *Univ. di Salerno*; Yvo Desmedt, *Univ. Wisc. Milwaukee*; Yair Frankel, *GTE*; Moti Yung, *IBM*.
- 4:10** *Computational complexity and knowledge complexity*: Oded Goldreich, *Weizmann*; Rafail Ostrovsky, *UC Berkeley*; Erez Petrank, *Technion*.
- 4:35** *Receipt-free secret-ballot elections*: Josh Benaloh, Dwight Tuinstra, *Clarkson Univ.*
- 5:00** *A minimal model for secure computation*: Uri Feige, *Weizmann*; Joe Kilian, *NEC*; Moni Naor, *Weizmann*.

Banquet: Schedule to be announced

WEDNESDAY, MAY 25, 1994

Session 9A: 8:30 am – 10:10 am, Grand Salon BC

Chair: Eric Bach

- 8:30** *On construction of k -wise independent random variables*: Howard Karloff, *Georgia Tech.*; Yishay Mansour, *Tel Aviv Univ.*
- 8:55** *Tiny families of functions with random properties: a quality-size trade-off for hashing*: Oded Goldreich, *Weizmann*; Avi Wigderson, *Hebrew Univ.*
- 9:20** *Improved algorithms via approximations of probability distributions*: Suresh Chari, Pankaj Rohatgi, *Cornell*; Aravind Srinivasan, *Princeton*.
- 9:45** *Balanced allocations*: Yossi Azar, Andrei Z. Broder, Anna R. Karlin, *DEC SRC*; Eli Upfal, *Weizmann & IBM*.

Session 9B: 8:30 am – 10:10 am, Grand Salon A

Chair: Richard Karp

- 8:30** *Lower bounds for parallel linear programming and other optimization problems*: Ketan Mulmuley, *Univ. of Chicago*.
- 8:55** *Decision tree complexity and Betti numbers*: Andrew C.-C. Yao, *Princeton*.
- 9:20** *Lower bounds for union-split-find related problems on random access machines*: Peter Bro Miltersen, *Univ. of Warwick*.
- 9:45** *Complexity lower bounds on testing membership to a polyhedron by algebraic decision trees*: Dima Grigoriev, *Penn State Univ.*; Marek Karpinski, *Univ. of Bonn & ICSI*; Nicolai Vorobjov, *Penn State Univ.*

Break: 10:10 am – 10:30 am

Plenary session III: 10:30 am – 11:30 am

Chair: Richard Karp

Grand Salon BC

- 10:30** Avi Wigderson, *Hebrew Univ.*

Session 10A: 11:30 am – 12:20 am, Grand Salon BC

Chair: Vijaya Ramachandran

- 11:30** *Random sampling in cut, flow, and network design problems*: David R. Karger, *Stanford*.
- 11:55** *Augmenting undirected connectivity in $\tilde{O}(n^3)$ time*: András A. Benczúr, *MIT*.

Session 10B: 11:30 am – 12:20 am, Grand Salon A

Chair: Richard Ladner

- 11:30** *Two heads are better than two tapes*: Tao Jiang, *McMaster Univ.*; Joel I. Seiferas, *Univ. of Rochester*; Paul M.B. Vitányi, *CWI & Univ. van Amsterdam*.
- 11:55** *On the power of finite automata with both nondeterministic and probabilistic states*: Anne Condon, *Univ. of Wisconsin*; Lisa Hellerstein, *Northwestern Univ.*; Samuel Pottle, *Univ. of Wisconsin*; Avi Wigderson, *Hebrew Univ.*

Lunch break: 12:20 – 1:45 pm

Session 11A: 1:45 pm – 3:25 pm, Grand Salon BC

Chair: Roberto Tamassia

- 1:45** *Improved data structures for fully dynamic biconnectivity*: Monika Rauch, *Cornell*.
- 2:10** *Efficient splitting off algorithms for graphs*: Harold N. Gabow, *Univ. of Colorado at Boulder*.
- 2:35** *Alpha-algorithms for incremental planarity testing*: Johannes A. La Poutré, *Univ. Utrecht*.
- 3:00** *The connectivity carcass of a vertex subset in a graph and its incremental maintenance*: Yefim Dinitz, *Technion*; Alek Vainshtein, *Tel Aviv Univ.*

Session 11B: 1:45 pm – 3:25 pm, Grand Salon A

Chair: Joan Feigenbaum

- 1:45** *On complexity as bounded rationality*: Christos H. Papadimitriou, *UC San Diego*; Mihalis Yannakakis, *AT&T*.
- 2:10** *Simple strategies for large zero-sum games with applications to complexity theory*: Richard J. Lipton, Neal E. Young, *Princeton*.
- 2:35** *Optimality and domination in repeated games with bounded players*: Lance Fortnow, Duke Whang, *Univ. of Chicago*.
- 3:00** *Fast algorithms for finding randomized strategies in game trees*: Daphne Koller, *UC Berkeley*; Nimrod Meggido, *IBM*; Bernhard von Stengel, *Univ. Fed. Armed Forces at Munich*.

Break: 3:25 pm – 3:45 pm

Session 12A: 3:45 pm – 5:00 pm, Grand Salon BC

Chair: Amihood Amir

- 3:45** *Aligning sequences via an evolutionary tree: complexity and approximation:* Tao Jiang, *McMaster Univ.*; Eugene Lawler, *UC Berkeley*; Lusheng Wang, *McMaster Univ.*
- 4:10** *Non-standard stringology: algorithms and complexity:* S. Muthukrishnan, *NYU*; Krishna Palem, *IBM.*
- 4:35** *A functional equation often arising in the analysis of algorithms on words:* Philippe Jacquet, *INRIA*; Wojciech Szpankowski, *Purdue.*

Session 12B: 3:45 pm – 5:00 pm, Grand Salon A

Chair: Baruch Schieber

- 3:45** *A coding theorem for distributed computation:* Sridhar Rajagopalan, Leonard Schulman, *UC Berkeley.*
- 4:10** *Time-adaptive algorithms for synchronization:* Rajeev Alur, *AT&T*; Hagit Attiya, *Technion*; Gadi Taubenfeld, *AT&T.*
- 4:35** *A theory of clock synchronization:* Boaz Patt-Shamir, Sergio Rajsbaum, *MIT.*

General Information

Location:

The Tuesday night banquet will be held at the Montréal Botanical Garden. All other conference events will take place at the Hôtel Méridien Montréal.

Registration:

The registration desk in the Grand Salon Foyer will be open from 4–11 pm on Sunday and from 8 am–5 pm Monday through Wednesday.

Proceedings:

Prepaid additional copies of the STOC '94 proceedings can be ordered with the registration form and will be available for pick-up at registration. There will also be copies available at the registration desk on a first come, first served basis, while supplies last, for Can\$75 or US\$55 per copy.

Hotel Information:

The conference will be held at the Hôtel Méridien Montréal, whose address and phone numbers are given under **Hotel Reservations**. Our block of rooms is being held from May 20 until May 26. To ensure availability and the special conference rates, reservations must reach the hotel before April 22. However, we would appreciate your reserving as early as you possibly can because the hotel staff may get nervous if not enough rooms have been reserved a few weeks before the deadline. We encourage you to make your reservations by

telephone or FAX because mail is notoriously slow in Canada. If you absolutely must make reservations by mail, please allow at least two weeks for airmail delivery.

The hotel is linked to the Complexe Desjardins, whose shopping mall contains over a hundred boutiques, restaurants and bars, and four movie theatres. Located in relaxing surroundings where natural light nourishes plants and flowers, it is a place where business and culture flourish in harmony. The hotel is across the street from the Museum of Contemporary Arts and minutes away from Chinatown and historic Old Montréal. The subway can be reached without stepping outside.

Important:

Note that Monday May 23 is a statutory holiday in Canada. As all banks and some shops will be closed until Tuesday morning, you may wish to buy Canadian dollars in your home country or upon arrival at the airport.

Child Care:

Child care is available at the Méridien given two hours' notice at the price of \$7 per hour (for one or two children), for a minimum of three hours.

Banquet:

In a break with STOC and FOCS tradition, and in accordance with the poll taken on this issue at the San Diego STOC, the banquet will be a stand-up event this year. It will take place at the Montréal Botanical Garden, which ranks as the second largest attraction of its type in the world.

Official Airlines:

Air Canada and American Airlines have been appointed official airlines for STOC '94. Using different marketing strategies, both airlines offer modest to substantial savings to STOC '94 participants. Regardless of your point of origin in North America, we encourage you or your travel agent to contact both Air Canada and American Airlines to obtain the best connections and rates. You may also enjoy savings with Air Canada and Continental Airlines' special Convention fares, on their joint services. When calling for reservations, be sure to mention the appropriate convention event number listed below.

<u>Air Canada/Continental</u>	<u>American Airlines</u>
Call 1-800-361-7585	1-800-433-1790
Convention Event#CV940819	Star File S1954L7

To Enter Canada:

U.S. citizens only require a proof of citizenship to enter Canada (a valid passport is recommended but not required). Citizens of other countries need a passport and may want to check with Canadian officials regarding whether they require a visa.

Getting to Montréal and the Hotel:

Montréal is served by two international airports: Dorval (YUL) for flights from Canada and the United States and Mirabel (YMX) for the rest of the world. A taxi to the hotel costs \$24 from Dorval Airport and about \$60 from Mirabel. Sharing is allowed at no extra cost. Alternatively, buses are available from both airports at a cost per person of \$8.50 from Dorval and \$13 from Mirabel. These buses go to the Hôtel Reine Élisabeth, and a shuttle should be available upon request from there to the Hôtel Méridien. The prices above are in Canadian dollars and they are subject to change without notice.

Public transportation is more than adequate in Montréal, except to and from the airports. Thus, we do not recommend that you rent a car unless you wish to visit the countryside. Nevertheless, all major car rental companies operate from both airports; you can get instructions on how to get to the hotel from the rental desk.

Sales Tax Refunds:

Most purchases made in Québec are subject to a 7% Goods and Services Tax (GST) and an 8% Provincial Sales Tax (PST). PST on hotel accommodation is 4%. However, on many items including hotel accommodation—but excluding food—both taxes are refundable to people who are not residents of Canada. The registration package will include a form and instructions on how to claim your refund upon leaving Canada. When you make a purchase, it is a good idea to collect receipts.

Climate:

Warm and sunny weather has been ordered for our Symposium but the possibility of rain cannot be ruled out, in which case you can still make the best of our Underground City. After the coldest winter in recorded history, you should expect lots of smiling faces, as late May is bound to warm up souls and bodies. Average daytime temperatures are in the low twenties (Celsius, of course!), but the variance is significant. You are advised to bring a warm sweater as evenings could well be chilly.

Things to Do:

At the crossroads of America and Europe, Montréal is one of the great cities of the world for its quality of life and international character. One of the gastronomic capitals of North America, it has a soul-generating magnetism that originates in its rich cosmopolitan mélange. Second largest French speaking city in the world, it has a vibrant multicultural atmosphere. The influence of the French and Anglo-Saxon cultures can be felt in all aspects of daily life and helps give Montréal its charming character. Visitors appreciate the city as much for its history and natural beauty as for its variety of cultural activities and animated lifestyle.

Take time to explore downtown Montréal, Old Montréal and Chinatown, all minutes away by foot from the Hôtel Méridien. Old Montréal constitutes one of North America's most remarkable architectural ensembles with one of the greatest concentrations of 17th, 18th and 19th century buildings on the continent. If you wish a real taste of French culture, a short walk will bring you to St-Denis street and its cafés and bistros. The hotel is also linked to the Underground City, prototype of the city of the future imagined by Leonardo da Vinci, which offers pedestrians access to 29 kilometres of virtually every type of facility, without their ever having to step outside. Many other popular sights can be reached easily by subway. Do not forget to bring lots of money so that you can leave some behind at the recently opened Casino de Montréal.

Mahler's Resurrection:

On May 24 and 25 at 8 pm, world famous Orchestre Symphonique de Montréal (OSM) will play Mahler's Symphony number 2 (Resurrection) conducted by its artistic director, Charles Dutoit. There is no direct connection between these concerts and STOC, except that the local arrangements chair is a fan of both Mahler and the OSM. We do not recommend that you skip the banquet, of course, but if you are a classical music lover, this concert should be well worth staying over in Montréal on Wednesday night. This promises to be a memorable evening. The concert hall is directly across the street from the hotel. For more information, please contact the local arrangements chair by electronic mail at xxx, preferably before April 20.

Programme Committee:

Amihood Amir, Eric Bach, Richard Beigel, David Epstein, Joan Feigenbaum, Greg Frederickson, Michael Goodrich (chair), Richard Karp, Richard Ladner, Bruce Maggs, Vijaya Ramachandran, Michael Saks, Baruch Schieber, Peter Shor, Roberto Tamassia.

Local Committee:

Pierre McKenzie (general chair), Gilles Brassard (local arrangements chair), Claude Christen and Geña Hahn (treasurers), Danielle McKenzie (registration chair).

Further Information:

Please contact Gilles Brassard at (514) 343-6807 for any additional information. A possibly updated electronic \LaTeX version of this brochure can be obtained via anonymous ftp: open a connection to "ftp.iro.umontreal.ca", login as "anonymous", use your electronic mail address as the password, "cd" to the directory "/pub/theorique/stoc94" and "get" the file "stocprogram.tex".