THIRD ANNUAL ACM SYMPOSIUM ON THEORY OF COMPUTING

The Third Annual ACM Symposium on The Theory of Computing, sponsored by SIGACT and Case Western Reserve University, will be held May 3, 4 and 5, 1971 at Stouffer's Somerset Inn in Shaker Heights, Ohio. An abbreviated schedule is provided below. Please note the SIGACT meeting at 8:00 P.M. on May 3.

All papers will be published in proceedings available at the conference. They may be ordered after the conference from the ACM order department for \$10. Proceedings from the previous conferences may be obtained in the same way.

Somerset Inn is located at the junction of Rt. U.S. 422 and Ohio 8 in Shaker Heights. Take U.S. 422 (Chagrin Blvd.) exit from I-271 and follow 422 about 2 miles west to Inn. From Cleveland airport, hourly limousine service to area motels, including Somerset is available (\$3.25 one way). Quickest way to Inn from the airport is via Rapid Transit. Take CTS Rapid from airport to either Union Terminal or Campus Station (exact fare 75¢). Transfer to Shaker Rapid Lines, Van Aken Local, and ride to end of line (50¢). Somerset Inn is directly opposite Rapid Stop.

Weater is mild (50° average) and showers are likely.

Room reservations should be sent to the Inn directly. Rates are \$14.50 single; \$19.00 two persons, one bed; \$20.00 two persons, 2 twin beds; and \$22.00 two persons, 2 double beds. Room sharing is advised. The address is:

Stouffer's Somerset Inn

3550 Northfield Road

Shaker Heights, Ohio 44122

Rooms cannot be guaranteed after April 21.

Housing for students at greatly reduced rates may be available on CWRU campus.

Registration fees are as follows:

Author	\$25
ACM and SIGACT Member	\$32
SIGACT or ACM Member Only	\$35
Others	\$40
Students	\$10

Fees (except author and student) increase by \$5 if not pre-registered. Student registration includes proceedings and coffee. Send checks (payable to ACM-SIGACT) to:

Prof. Wm. C. Rounds Mathematics Dept. Case Western Reserve University Cleveland, Ohio 44106

Helping W. C. Rounds with local arrangements is Ranon Banerji; Conference Chairman is Michael A. Harrison; Program Chairman is Philip M. Lewis II; Publicity Chairman is Jeffrey D. Ullman.

PROGRAM

MONDAY, MAY 3

SESSION 1:

9:00 A.M. (A. L. Rosenberg, Chairman)
Formal Languages and Power Series, D. F. Stanat
An Algebraic Theory of Recursive Definitions and
Recursive Languages, E. G. Wagner
Loop Schemata, R. L. Constable
Some Results Concerning Efficient and Optimal
Algorithms, I. Munro
Fast Matrix Multiplication, C. M. Fiduccia

LUNCHEON 12:30 P.M.

SESSION 2: 2:00 P.M. (J. W. Thatcher, Chairman)
Proving Simultaneous Positivity of Linear Forms,
M. O. Rabin
Linear Representation of Tree Structure, W. J. Meyers
On Generalized Finite Automata and Unrestricted
Generative Grammars, H. W. Buttelmann
Some Results in Tree Automata, L. S. Levy and
A. K. Joshi

SIGACT MEETING 8:00 P.M.

TUESDAY, MAY 4

SESSION 3:

9:00 A.M. (P. M. Lewis II, Chairman)
Block Structure: Retention or Deletion?,
D. M. Berry
Parallel Computation of Local Operations, S. K. Chang
An Iteration Theorem for One-Counter Languages,
L. Boasson
Intersection-closed Full AFL and the Recursively
Enumerable Languages, S. Ginsburg and J. Goldstine
Absolutely Parallel Grammars and Two-Way Deterministic
Finite-State Transducers, V. Rajlich

LUNCHEON 12:30 P.M.

SESSION 4: 2:00 P.M. (M. J. Fischer, Chairman)
Addressable Data Graphs, A. L. Rosenberg
The Complexity of Theorem-Proving Procedures, S. A. Cook
The Care and Feeding of LR(k) Grammars, A. V. Aho
and J. D. Ullman
Domolki's Algorithm Applied to Generalized Overlap
Resolvable Grammars, D. S. Wise
An Algorithm Generating the Decision Table of a
Deterministic Bottom-Up Parser for a Subset of
Context-Free Grammars, G. Terrine

WEDNESDAY, MAY 5

SESSION 5: 9:00 A.M. (P. R. Young, Chairman)
A Decision Procedure for Generalized Sequential
Mapability Onto of Regular Sets, R. McNaughton
Algebraic Structure Theory of Stochastic Machines,
E. S. Santos
Complexity of Formal Translations and Speed-Up
Results, R. L. Constable and J. Hartmanis
Classification of Computable Functions by Primitive
Recursive Classes, M. Machtey
Complexity Classes of Partial Recursive Functions,
E. L. Robertson

UPCOMING CONFERENCES

LOGIC, METHODOLOGY AND PHILOSOPHY OF SCIENCE

The Fourth International Congress for Logic, Methodology and Philosophy of Science will be held in Bucharest, Romania, August 29 to September 4, 1971, under the auspices of the International Union for the History and Philosophy of Science. Topic areas of interest are:

Mathematical logic
Foundations of mathematical theories
Automata and programming languages
Philosophy of logic and mathematics
Foundations of probability and induction
Methodology and philosophy of the physical,
biological, psychological, historical,
and social sciences, and linguistics
History of logic, methodology and philosophy
of science

Information about fees, housing, and other details may be obtained by writing:

Professor Solomon Marcus, Secretary General Romanian Organizing Committee 1971 International Congress for Logic, Methodology and Philosophy of Science Calea Victoriei 125 Bucharest, Romania

* * *

A finite automaton knows
That counting takes fingers and toes,
But, footless and handless,
It tries, never endless,
To follow five 1's with five 0's.