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

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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

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        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.