FOURTEENTH SWAT SYMPOSIUM

The Fourteenth Annual IEEE Symposium of Switching and Automata Theory will be held on October 15-17, 1973, at the University of Iowa, Iowa City.

The registration fee, which includes luncheon on Oct. 15 and 16 and dinner on Oct. 16, is $35.00 before October 1 and $40.00 after that date. Full-time students may register for $10.00, not including meals. A copy of the proceedings will be furnished to each registrant.

The Symposium will take place in the Conference Center of the Iowa Memorial Union, and a block of rooms has been reserved in the adjacent Iowa House Motel. Singles are $12.50, and shared doubles are $8.50 per person. Free reserved parking is provided for guests. A hospitality suite will be open at the motel from 7-12 p.m. on Sunday, October 14.

The nearest commercial airport is Cedar Rapids, Iowa. Limousine service connect all flights to Iowa City, 22 miles away.

Further information may be obtained from:

> Director of Conferences
> Iowa Memorial Union
> The University of Iowa
> Iowa City, Iowa   52242

Registration fees and motel reservations should also be sent to that address.

PROGRAM

Monday, October 15th

8:30	Registration, Big Ten Lounge, Third Floor
Session I:	Arnold L. Rosenberg, Chairman Illinois Room
9:30	Linear Pattern Matching Algorithms Peter Weiner, Yale University
10:00	An Efficient Algorithm for Determining an Extremal Tree of a Graph T. Kameda and S. Toida, University of Waterloo
10:30	BREAK, coffee in Big Ten Lounge

11:00   Efficient Compilation of Linear Recursive Programs
          Achok K. Chandra, Stanford University
11:30   Equivalence Problems in Linear and General Monadic
          Recursion Schemes
          Emily P. Friedman, Harvard University
12:00   Mechanizable Proofs about Parallel Processes
          J. M. Cadiou and J. J. Levy, IRIA

12:45   Luncheon, Ballroom, Second Floor

Session II: Amar Mukhopadhyay, Chairman

 2:00   Chow Parameters in Pseudothreshold Logic
          C. R. Baugh, Bell Laboratories
 2:30   On Multiple Input Change Hazard-free Combinatorial
          Switching Circuits without Feedback
          Jon Bredeson, Penn State University
 3:00   Multiple-Input Change Asynchronous Machines Using
          Controlled Excitation and Flip-flops
          Henry Y. H. Chuang and Santanu Das, Washington University

 3:30   BREAK, coffee in Big Ten Lounge

 4:00   On the Lower Bounds for Computing the ith Largest Ele-
          ment
          Vaughan R. Pratt and Foong Frances Yao, M.I.T.
 4:30   On Finding and Updating Shortest Paths and Spanning Trees
          P. N. Spira and A. Pan, University of California at
          Berkeley

 5:00   Refreshments, Faculty Club
 6:00   Dinner, Ballroom

Tuesday, October 16th

Session III: Ronald **V**. Book, Chairman

 9:30   Statistical Indicators of Optimality
10:00   On the Optimal Evaluation of a Set of N-Linear Forms
          David Dobkin, Harvard University

10:30   BREAK, coffee in Big Ten Lounge

11:00   Characterizations of LR(O) Languages
          Matthew M. Geller and Michael A. Harrison, University
          of California at Berkeley
11:30   On the Ability to Cover LR(k) Grammars with LR(O) and
          (1,1) Bounded Right Context Grammars
          M. D. Michunas and V. B. Schneider, Purdue University
12:00   Non-canonical Parsing
          Thomas G. Szymanski and John H. Williams, Cornell Uni-
          versity

12:45   Luncheon, Ballroom, Second Floor

Session IV: Allan B. Borodin, Chairman

2:00   Translations in the Nondeterministic Tape and Time
             Hierachies
             J. I. Seiferas, M. J. Fischer and A. R. Meyer, M.I.T.
2:30   Space-bounded Complexity Classes and Multi-head Automata
             I. Hal Sudborough, Northwestern University
3:00   Complexity of Recognition in Intermediate-level Languages
             William C. Rounds, Case Western Reserve University

3:30   BREAK, coffee in Big Ten Lounge

4:00   Automatic Theorem-proving and the Decision Problem
             William H. Joyner, Jr., Harvard University
4:30   Graph Grammars: An Algebraic Approach
             H. Ehrig, M. Pfender and H. J. Schneider, Technische
             Universitat Berlin

8:00   Business Meeting, Faculty Club

                    Wednesday, October 17th

Session V: Forbes D. Lewis, Chairman

9:30   A Notion of Helping and Pseudo-complementation in Lat-
             tices of Honest Subrecursive Classes
             Michael Machtey, Purdue University
10:00   On the Size of Sets of Computable Functions
             Kurt Mehlhorn, Cornell University

10:30   BREAK, coffee in Big Ten Lounge

11:00   Optimization among Probably Equivalent Programs
             Paul Young, University of California at Berkeley
12:00   The Complexity of Some Nonclassical Logics
             John Cherniavsky, State University of New York at
             Stony Brook