



# DEPARTMENT OF TRANSPORTATION

# NEWS

## URBAN MASS TRANSPORTATION ADMINISTRATION

WASHINGTON, D.C. 20590

FOR IMMEDIATE RELEASE  
April 15, 1975

UMTA 75-33  
Phone: (202) 426-4043

The U.S. Department of Transportation's Urban Mass Transportation Administration (UMTA) today announced a workshop on Automated Techniques for Scheduling of Vehicle Operators for Urban Public Transportation Services. The workshop is being held on April 27, 28 and 29, 1975, at the Palmer House Hotel in downtown Chicago, Illinois.

The workshop is designed to provide transit operators an opportunity to explore recent developments and applications of automated techniques for scheduling the work of bus and rail transit vehicle crews.

Technical sessions include various aspects of the Run-Cutting and Scheduling (RUCUS) system developed by UMTA and complementary software developed in the United States. In addition, the workshop is reviewing developments for automating the schedules of bus and train crews serving mass transit systems in Hamburg, Germany, Paris, France and various cities in the United Kingdom.

UMTA Deputy Administrator, John E. Hirten said, "We are looking forward to the automated scheduling techniques as one in a series of developments designed not only to improve the performance of urban public transportation, but also to effect cost savings measures for the operator." Hirten, the keynote speaker, will address the workshop on April 28.

Conference sponsors include the Operations Research Society of America's Transportation Science Section, the Department's Technology Sharing Program and UMTA. The American Public Transportation Association and the International Union of Public Transit have aided in developing the workshop's Program.

An advance registration fee of \$40.00 is required for the 3-day workshop.

For further information and registration contact Mr. Peter Albin, or Mr. Kent Groote, Transportation Systems Center, 55 Broadway, Cambridge, Massachusetts, 02142, (617) 494-2353.

# AGENDA\*

## WORKSHOP ON AUTOMATED TECHNIQUES FOR SCHEDULING OF VEHICLE OPERATORS FOR URBAN PUBLIC TRANSPORTATION SERVICES

**Sunday, April 27, 1975**

3:00 p.m. - 7:00 p.m.

**REGISTRATION AND REFRESHMENTS (Cash Bar)**

**Monday, April 28**

8:00 a.m. - 9:00 a.m.

**REGISTRATION**

9:00 a.m. - 9:30 a.m.

**WELCOME AND INTRODUCTION**

**DIETRICH R. BERGMANN/ORSA Transportation Science Section GM Transportation System Division**

**R.V. (Bud) GIANGRANDE/U.S. DOT Transportation Systems Center**

**WILLIAM PIERSKALLA/Operations Research Society of America Northwestern University**

9:30 a.m. - 10:00 a.m.

**OVERVIEW OF THE WORKSHOP**

**LAWRENCE D. BODIN/State University of New York at Stony Brook**

10:00 a.m. - 11:00 a.m.

**TECHNIQUES FOR VEHICLE OPERATOR SCHEDULING AT THE CHICAGO TRANSIT AUTHORITY (CTA)**

**W.W. WORCESTER/Chicago Transit Authority**

11:00 a.m. - 12 Noon

**CONSTRAINTS FOR SCHEDULING OPERATORS FOR URBAN PUBLIC TRANSIT SYSTEMS**

**GUNTER P. SHARP/Georgia Institute of Technology**

12 Noon - 1:30 p.m. - Luncheon

**SPEAKER:**

**JOHN E. HIRTEN/Deputy Administrator Urban Mass Transportation Administration**

2:00 p.m. - 5:30 p.m.

**SESSION CHAIRMAN:**

**JAMES J. BROWN/Port Authority of New York and New Jersey**

**PREPARING DUTY ROSTERS FOR BUS ROUTES BY COMPUTER**

**EDITH HEURGON/RATP (Paris, France)**

**A GENERAL COMPUTER METHOD FOR BUS CREW SCHEDULING**

**BARBARA MANINGTON & ANTHONY WREN/University of Leeds (England)**

**OVERVIEW OF THE RUCUS PACKAGE DRIVER RUN CUTTING PROGRAM (RUNS)**

**EUGENE B. WILHELM/The MITRE Corporation**

**PRACTICAL CONSIDERATIONS IN DEVELOPING EFFECTIVE MANPOWER AND EQUIPMENT SCHEDULES**

**JAMES J. KELLY & JAMES J. BROWN/Port Authority of New York and New Jersey**

**AUTOMATED FORMATION OF STAFF SCHEDULES AND DUTY ROSTERS**

**HELMUT KREGELOH & MIOBRAG MOJSILOVIC/HHA (Hamburg, West Germany)**

6:30 p.m. - 8:30 p.m.

Banquet at the Berghoff Restaurant, 17 West Adams Street (one block from the Palmer House Hotel)

**Tuesday, April 29**

9:00 a.m. - 12 Noon

**SESSION CHAIRMAN:**

**ANTHONY WREN/University of Leeds (England)**

**OPTIMAL SCHEDULING OF TOURS AND DAYS OFF**

**DILIP GUHA & JAMES J. BROWN/Port Authority of New York and New Jersey**

**APPROXIMATION TECHNIQUES FOR AUTOMATED MANPOWER SCHEDULING**

**LAWRENCE D. BODIN, ANDY KYDES & DONALD ROSENFELD/State University of New York at Stony Brook**

**MINIMAL COST ALLOCATIONS OF BUS DRIVING ASSIGNMENTS BETWEEN SPLIT RUNS AND TRIPPERS**

**DIETRICH R. BERGMANN/GM Transportation Systems Division**

**AN AUTOMATED TECHNIQUE FOR SCHEDULING MOTORMEN AND CONDUCTORS FOR THE NEW YORK CITY SUBWAYS**

**RICHARD T. JENKINS/URS/Coverdale & Colpitts, Inc.**

**THE EFFECT OF DRIVER SCHEDULES ON DIAL-A-RIDE PERFORMANCE**

**NIGEL H.M. WILSON/Massachusetts Institute of Technology**

**A SYSTEM FOR COMPUTER DESIGN OF PROPORTIONAL ROTATING WORK SCHEDULES NELSON B. HELLER & WILLIAM W. STENZEL/The Institute for Public Program Analysis**

12 Noon - 1:30 p.m. - Luncheon

2:00 p.m. - 5:00 p.m.

**SESSION CHAIRMAN:**

**LAWRENCE D. BODIN/State University of New York at Stony Brook**

**OVERVIEW OF THE RUCUS VEHICLE SCHEDULING PROGRAM (BLOCKS)**

**GERALD E. BENNINGTON & KATHY K. REBIBO/The MITRE Corporation**

**AN EXAMINATION OF THE RUN CUTTING AND SCHEDULING (RUCUS) SYSTEM - A CASE ANALYSIS**

**DENNIS L. GOEDEL/Transportation Systems Center**

**EXPERIENCES WITH A BUS SCHEDULING ALGORITHM WHICH SAVES VEHICLES**

**P.D. MANINGTON & ANTHONY WREN/University of Leeds (England)**

**SCHEDULING OF POSTAL TRUCK DRIVERS**

**A.L. ROARK & JEAN PAYET/Wilbur Smith Associates**

**RELATIONSHIPS BETWEEN AUTOMATED SCHEDULING TECHNIQUES FOR NURSES AND PUBLIC TRANSPORTATION VEHICLE OPERATORS**

**HOLMES E. MILLER/Rensselaer Polytechnic Institute**

**RELATIONSHIPS BETWEEN THE SCHEDULING OF TELEPHONE OPERATORS AND PUBLIC TRANSPORTATION VEHICLE DRIVERS**

**W.B. HENDERSON/University of Tennessee**

\* All events are scheduled for the Palmer House Hotel unless otherwise indicated.