PROGRAM

34th Annual Meeting
The Psychonomic Society

THE OMNI SHOREHAM HOTEL
2500 Calvert St., NW
Washington, DC 20008

Friday, Saturday, Sunday
November 5, 6, and 7, 1993

SPECIAL EVENTS / ANNOUNCEMENTS

REGISTRATION
Thursday, 4:00 p.m.-8:00 p.m., Registration Area II, West Lobby
Friday, 7:30 a.m.-5:00 p.m., Registration Area II, West Lobby
Saturday, 7:30 a.m.-3:00 p.m., Registration Area II, West Lobby

SYMPOSIA
Brain Imaging and Its Impact on Cognitive Psychology
Friday, 1:00 p.m.-3:30 p.m., Palladian Room

Visual Object Conceptualization
Saturday, 1:30 p.m.-4:00 p.m., Diplomat Room

POSTER SESSIONS
Session I: Friday, 5:30 p.m.-7:00 p.m., Regency Ballroom
Session II: Saturday, noon-1:30 p.m., Regency Ballroom
Session III: Saturday, 5:35 p.m.-7:05 p.m., Regency Ballroom

Authors will be at their posters during the three session times. Posters in
the two evening sessions (Sessions I and III) will be available for viewing
beginning at 3 p.m. each day. Posters in the noon session (Session II)
will be available for viewing beginning at 10:30 a.m. on Saturday.

BUSINESS MEETING
Saturday, 5:05 p.m.-5:35 p.m., Diplomat Room

HOSPITALITY
Thursday, 5:00 p.m.-8:00 p.m., Executive Room
Friday, 5:30 p.m.-7:00 p.m., Regency Ballroom
Saturday, 5:35 p.m.-7:05 p.m., Regency Ballroom

FUTURE MEETINGS
1994—St. Louis, November 11-13
1995—Los Angeles, November 10-12
ANNOUNCING MEL 2.0! NEW TOOLS FOR RESEARCH

MEL is the world standard for experiment generation!

MEL’s award-winning forms-based interface empowers novice computer users to rapidly create their own computerized experiments which run on any IBM-compatible PC with millisecond precision. The integrated system combines experiment creation, data collection, and analysis into one package.

NOW MEL VERSION 2.0 EXPANDS THE RANGE OF EXPERIMENTAL TASKS WHILE PROVIDING EASY VERIFICATION OF MILLISECOND PRECISION

★ SOUND SUPPORT: MEL’s support of Creative Lab’s SoundBlaster PRO and SoundBlaster 16 cards enables researchers to:
- Record vocal latencies
- "Play" instructions to subjects
- Present stimuli in stereo
- Incorporate speech and sound effects
- Record subject's vocal responses
- Conduct dichotic listening experiments

★ TIME AUDIT TRAIL: Confirm the timing accuracy of any MEL experiment with ease! This new feature enables researchers to readily determine the initialization, duration, and termination of all input and output events with 0.1 msec accuracy. A must for every laboratory!

★ SUPER VGA SUPPORT: Take advantage of the new high-resolution graphics cards to present superior slide quality graphics, including the popular SVGA modes of 800x600x256 and 1024x768x256!

★ RESEARCH RESPONSE BOX: Subjects-friendly response box features five buttons and five lamps, expandable to 16 buttons and 10 lamps. Response key and lamp colors can be changed quickly and easily! Records latencies for single or multiple keypresses and releases!

★ DUAL MONITOR SUPPORT: Send information to two display monitors in order to create separate subject and experimenter displays. Developed for researchers collecting EEG data with MEL, it is a valuable tool for anyone who must monitor the experiment without disrupting the subject.

MEL LAB v.1.61
COMPUTERIZED TOOLS FOR TEACHING

Already utilized by over 10,000 students in 159 institutions, MEL Lab offers the only comprehensive solution for computerized psychology laboratory courses. Students run real experiments and collect real data; instructors run the 350+ specified data analyses, or export data. Contact PST for a sample student chapter and demo disk!

HOTEL
The Omni Shoreham Hotel, 2500 Calvert St., NW, Washing-
ton, D.C. 20008 (202-234-0700) will be the meeting site. A room
reservation envelope is enclosed with this program. IT IS
IMPORTANT THAT YOU MAKE RESERVATIONS AS
EARLY AS POSSIBLE and no later than Oct. 3. Reserva-
tions may be faxed to the attention of the Reservations Department
at 202-265-3333.

SPECIAL AIRFARES
Delta Airlines, in cooperation with the Psychonomic Society,
is offering special discounted meeting fares. You can take ad-
vantage of these fares by flying Delta roundtrip from the U.S.
or Canada to the meeting site. Delta agrees to provide a 5% discount off any published domestic fare (including restrictive
advance purchase fares), provided that all rules and conditions
of the fare are met. (Not included in these discounts are group
travel, military, government, senior citizen, zone and
Visit USA fares.) Delta will provide a 10% discount off the
Basic fare (standard coach fare). To take advantage of these
special fares, follow these steps:
1. Call, or have your travel agent call 1-800-241-6760 (from
8:00 a.m. to 11:00 p.m. Eastern Time daily).
2. Refer to file number: 00225.

TRANSPORTATION IN WASHINGTON, D.C.
The Washington Flyer bus service provides transportation from Washington National Airport to the downtown terminal
for $7.00 one way, departing every 30 minutes. A free shuttle
will take you from the terminal to the Omni Shoreham. Fares
from Washington National to the hotel cost approximately $12-
$15 one way. The subway is also an option as the Woodley Park
Metro Station is one block from the hotel.

REGISTRATION
Registration for the meeting will be held in Registration Area
II in the West Lobby. Please register. There is no registration
for this year. The hours for the registration desk are given on
the front cover.

PROGRAMS
Please bring your program with you. Additional programs will
be available at the registration desk for $7.00. Programs may
also be purchased in advance by sending a check or bank draft
in U.S. funds (made out to the Psychonomic Society) to:
Program, Psychonomic Society
1710 Fortview Road
Austin, Texas 78704

The cost of an advanced program is $8.00, or $9.50 for addresses
outside North America.

MEETING ROOMS
Meeting rooms are located on floors 1B and 2B of the hotel.
A map showing the locations of these meeting rooms is pro-
duced on page iii.

PSYCHONOMIC TIME
Persons chairing sessions this year will be asked to keep the
spoken papers scheduled on times standardized against a clock
at the Psychonomic registration desk. A standardized time base
is intended to accommodate requests from attendees who wish
to move from room to room on a close schedule to hear papers
in spoken sessions. All attendees are invited to synchronize their
watches with Psychonomic Time at the registration desk.

SMOKING
In accordance with Society policy, smoking is not permitted
in rooms where papers are being given.

HOSPITALITY
On Thursday, November 4, there will be a general reception
with a cash bar between 5:00 p.m. and 8:00 p.m. in the Execu-
tive Room near the conference registration desk. On Friday and
Saturday a reception with cash bar will be held in the Regency
Ballroom from 5:30 until 7:00 p.m. on Friday and from 5:35
to 7:05 on Saturday. Note that the reception is combined with
the Poster sessions on Friday and Saturday evenings.

THE PROGRAM
The program was assembled from 697 submitted abstracts in
accordance with the priorities specified by the Governing Board.
The program contains 651 presentations, of which 342 are
spoken papers and 309 are poster presentations. In addition, there
are poster presentations by program officers from NSF at the
two evening poster sessions.

The spoken papers are given by Members (327), by invited
symposium speakers (13), and by foreign guest (2). The poster
presentations are given by Associates (162), by Members (132),
by foreign guests (15), and by program officers of NSF.

The members of the members requesting spoken papers exceeded
the number of spoken session slots. According to priorities es-
ablished by the Governing Board, 16 of the members request-
ning a spoken paper were rejected from the spoken sessions. If
these members had agreed to give a poster presentation, they
were accommodated in the poster sessions. All submissions by
Associates who requested or agreed to present posters are
on the program.

POSTER SESSIONS
The poster sessions will be held in the Regency Ballroom.
The two evening sessions will be held in conjunction with the
general reception (Hospitality) at the end of each day’s spoken
program. These posters will be available for viewing beginning
at 3:00 p.m. each day. A third poster session will be held at
noon on Saturday. These posters will be available for viewing
beginning at 10:30 a.m. Saturday. Authors will be at the posters
during their scheduled poster session times.

PARTICIPATION OF FEDERAL FUNDING AGENCIES
Attendees may obtain current information about federal funding
opportunities at poster presentations made by program officers
from NSF in Poster Sessions I and III. (See Abstract 249 in
Poster Session I and Abstract 576 in Poster Session III.)

ADDRESS INDEX
The printed program includes an address index which pro-
vides, for each scheduled presentation, an address to which cor-
respondence may be directed.
GENERAL INFORMATION

PROGRAM HISTORY
The program history for the last 6 years is given in the following table.

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<td>1993—Washington, D.C.</td>
<td>607</td>
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<td>1992—St. Louis</td>
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<td>1991—San Francisco</td>
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<td>1989—Atlanta</td>
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<td>1988—Chicago</td>
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OTHER MEETINGS
Participants may be interested in the following meetings scheduled in the Omni Shoreham immediately prior to or following the Psychonomic Society meeting:

Society for Computers in Psychology
Thursday, November 4 (see pp. v-vi)

Judgment/Decision Making Society
Sunday afternoon and Monday, November 7 and 8

Tactile Research Group
Thursday, November 5

OFFICERS OF THE SOCIETY
Chair
Stewart Holte (1993)

Secretary-Treasurer
Randi Martin (1993-1995)

Governing Board
Stewart Holte (1988-93)
Douglas Medin (1988-93)
Marcia Johnson (1989-94)
Roger Ratcliff (1989-94)
Lyman H. Huber (1994-95)
Elizabeth Loftus (1990-95)
Lyman Cooper (1991-95)
Howard Egeth (1991-95)
Elizabeth Capsak (1992-97)
Neal Johnson (1992-97)
Larry Jacoby (1993-98)
Roberta Klatzky (1993-98)

The names of two new members elected to the Governing Board for 1994-1999 will be announced at the Business Meeting on Saturday, November 6.

Randi C. Martin
Secretary-Treasurer
Dept. of Psychology
P.O. Box 1892
Rice University
Houston, TX 77251-1892
713-527-8101, Ext. 3417
rmartin@rice.edu

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The Compilation of a History of the Psychonomic Society

The response to the Call for Assistance in the compilation of a history of the Psychonomic Society has been gratifying. If, however, any members have further information to contribute or any reminiscences they have not yet passed along, Robert C. Bolles, the first Historian of the Society, would be very pleased to hear from them.

Dr. Bolles’s address is Department of Psychology, University of Washington, Seattle, Washington 98195 (phone: 206-543-2631).

23RD ANNUAL CONFERENCE
SOCIETY FOR COMPUTERS IN PSYCHOLOGY
WASHINGTON, D.C.
NOVEMBER 3-4, 1993
(DAY BEFORE PSYCHONOMICS)

CO-CHAIRS:
NANCY DUNCAN
HAMPTON UNIVERSITY
&
ELLEN ROSEN
COLLEGE OF WILLIAM & MARY
E-MAIL:EFRONE@MAIL.WM.EDU

PROGRAM HIGHLIGHTS

KEYNOTE SPEAKER: ROGER RATCLIFF, NORTHWESTERN UNIVERSITY
"USING THE COMPUTER IN RESEARCH"

PRESIDENTIAL ADDRESS BY DORIS AARONSON, NEW YORK UNIVERSITY

PAPER SESSIONS ON:
TOOLS FOR CLINICAL DIAGNOSIS, TREATMENT AND MANAGEMENT
INDUSTRIAL/HUMAN FACTORS APPLICATIONS
COMPUTERS IN INSTRUCTION
STATISTICAL ANALYSIS OF DATA
SIMULATIONS AND MODELING
SCIENTIFIC VISUALIZATION

SYMPOSIUM ON:
THE DRIVING SIMULATOR AS A RESEARCH AND DIAGNOSTIC TOOL
DATA VISUALIZATION
COMPUTER USE BY NON-HUMAN ANIMALS

WORKSHOP ON:
SIMPLE AND COST-EFFECTIVE COMPUTER CONTROLLED LABORATORY INTERFACES
FOR THE MACINTOSH AND PC PLATFORMS

COMPUTER DEMONSTRATIONS AND VENDOR DISPLAYS

REGISTRATION FORM ON OTHER SIDE OF THIS PAGE
23RD ANNUAL CONFERENCE
SOCIETY FOR COMPUTERS IN PSYCHOLOGY
WASHINGTON, D.C.
NOVEMBER 4, 1993
THE DAY BEFORE
PSYCHONOMICS

SOCIETY FOR COMPUTERS IN PSYCHOLOGY 1993

SCiP Registration 1993

Name
Address
E-Mail
Telephone

Registration
Until Nov. 1
$15.00
$20.00
$25.00
$10.00
$20.00
$46.00
$15.00

After Nov. 1
$20.00
$25.00
$30.00
$10.00
$20.00

Total
$35.00
$40.00
$45.00
$20.00
$20.00
$56.00
$35.00

Conference Proceedings
(Non-refundable)

Annual Subscription to Behavior Research Methods, Instruments, & Computers

SCiP Membership for 1993-4

Make checks payable to Society for Computers in Psychology. Remittance must be in U.S. dollars. Conference Program and hotel registration will be sent upon receipt of registration.

MAIL REGISTRATION TO: Douglas B. Eamon, Department of Psychology
University of Wisconsin-Whitewater, Whitewater, WI 53190

CONCENTED SCHEDULE A

FRIDAY MORNING

Implicit Memory I (1-6) 8:00-9:55, Palladian Room
Attention I (7-12) 8:00-9:55, Diplomat Room
Neuropsychology/Latency (13-19) 8:00-10:20, Hampton Room
Letter/Word Processing I (20-26) 8:00-10:20, Blue Room
Motor Control (27-34) 8:00-10:50, Empire Room
Touch I (35-39) 8:00-9:30, Ambassador Room

Human Memory I (40-45) 10:05-12:30, Palladian Room
Perception I (46-51) 10:05-12:30, Diplomat Room

3-D/Movement Perception I (52-56) 10:30-12:15, Hampton Room
Repetition/Priming Effects I (57-62) 10:30-12:35, Blue Room

Behavioral Pharmacology (63-67) 11:00-12:20, Empire Room

Touch II (68-73) 9:40-11:50, Ambassador Room

FRIDAY AFTERNOON

Symposium I: Brain Imaging and its Impact on Cognitive Psychology (74-80) 1:00-3:30, Palladian Room
Attention II (81-88) 1:00-3:30, Diplomat Room
3-D/Movement Perception II (89-94) 1:00-3:00, Hampton Room
Letter/Word Processing II (95-100) 1:00-2:30, Blue Room
Animal Cognition/Memory II (101-105) 1:00-2:30, Empire Room

Problem Solving (106-111) 1:00-3:05, Ambassador Room

Human Memory II (112-116) 3:45-5:15, Palladian Room
Information Processing (117-120) 3:30-5:10, Diplomat Room

Vision I (121-125) 3:15-5:10, Hampton Room
Psycholinguistics (126-129) 3:00-5:25, Blue Room
Animal Learning/Conditioning I (133-139) 3:00-5:30, Empire Room

Categorization I (140-145) 3:15-5:20, Ambassador Room

FRIDAY EVENING

Poster Session I (146-249) 5:30-7:00, Regency Ballroom
Hospitality 5:30-7:00, Regency Ballroom

SATURDAY MORNING

Human Memory III (250-255) 8:00-9:55, Palladian Room
Attention III (256-260) 8:00-9:50, Diplomat Room
Cognition (261-266) 8:00-10:05, Hampton Room

Language/Discurso Processing I (267-271) 8:00-9:55, Blue Room
Picture Memory/Processing (272-276) 8:00-9:50, Empire Room

Animal Learning/Conditioning II (277-281) 8:00-9:55, Ambassador Room

Recognition/Reliability I (282-286) 10:00-11:50, Palladian Room
Attention IV (287-291) 10:00-11:50, Diplomat Room

3-D/Movement Perception II (292-296) 10:15-11:55, Hampton Room
Letter/Word Processing III (297-301) 10:05-12:00, Blue Room

Development/Agenda I (302-307) 10:00-11:55, Empire Room
Animal Cognition/Memory II (308-312) 10:05-11:55, Ambassador Room

SATURDAY NOON

Poster Session II (313-415) 12:00-1:30, Regency Ballroom
### SATURDAY AFTERNOON

<table>
<thead>
<tr>
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<td>1:30-2:50</td>
<td>Human Memory IV (416-419)</td>
<td>Palladian Room</td>
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<td>1:30-4:00</td>
<td>Symposium II: Visual Object Conceptualization (420-425)</td>
<td>Diplomat Room</td>
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<td>1:30-3:00</td>
<td>Language/Discourse Processing II (426-430)</td>
<td>Hammon Room</td>
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<td>1:30-3:40</td>
<td>Individual Differences (431-436)</td>
<td>Blue Room</td>
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<td>1:30-3:25</td>
<td>Judgment/Decision Making I (437-441)</td>
<td>Empire Room</td>
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<td>1:30-3:05</td>
<td>Animal Learning/Conditioning III (442-446)</td>
<td>Ambassador Room</td>
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<td>3:00-5:00</td>
<td>Implicit Memory II (447-453)</td>
<td>Palladian Room</td>
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<td>4:10-5:05</td>
<td>Semantic Processing (455-459)</td>
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<td>3:10-5:00</td>
<td>Repetition/Priming Effects II (460-465)</td>
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<td>3:50-5:05</td>
<td>Judgment/Decision Making II (464-467)</td>
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<td>3:15-5:00</td>
<td>Animal Learning/Conditioning IV (468-472)</td>
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### SATURDAY EVENING

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<tr>
<td>5:05-5:35</td>
<td>General Business Meeting</td>
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<td>5:35-7:05</td>
<td>Poster Session III (473-576)</td>
<td>Regency Ballroom</td>
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<tr>
<td>5:35-7:05</td>
<td>Hospitality</td>
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### SUNDAY MORNING

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<tr>
<td>8:00-10:00</td>
<td>Human Memory V (577-582)</td>
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<td>8:00-9:45</td>
<td>Vision II (583-587)</td>
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<td>8:00-10:05</td>
<td>Categorization II (588-592)</td>
<td>Hampton Room</td>
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<td>8:00-10:30</td>
<td>Phonological Coding in Reading (554-600)</td>
<td>Blue Room</td>
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<td>8:00-10:15</td>
<td>Animal Cognition/Memory III (601-607)</td>
<td>Ambassador Room</td>
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<td>10:10-12:55</td>
<td>Recognition/Recall II (615-621)</td>
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<td>9:55-12:30</td>
<td>Development/Aging II (620-635)</td>
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<td>10:40-12:22</td>
<td>Speech Perception (641-648)</td>
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<td>10:45-12:50</td>
<td>Judgment/Decision Making IV (647-653)</td>
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## SATURDAY MOON, 12:00-1:30

**POSTER SESSION II (313-415), Regency Ballroom**

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<td>Williams, Moscovitch, Schrumpf, &amp; Reingold</td>
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<td>Delaney &amp; Marks</td>
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<td>Hogen, Berberich, &amp; Mokas</td>
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<td>Den, Ploeg, &amp; Pouss</td>
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<td>Tarry, Coens, Deminick, &amp; Roberts</td>
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<td>Williams &amp; Sandra</td>
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<td>Kofler, Bleda, Elder, Rock, Elder, Remmers-Reeder, &amp; Deu</td>
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<td>Neuper &amp; Dooling</td>
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<td>Sami, Allen, &amp; Siegel</td>
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<td>Ben &amp; Mathews</td>
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<td>DeCes, De Oca, &amp; Fazekas</td>
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<td>Plaster, Clarke, &amp; Coppeneti</td>
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</table>

## SATURDAY AFTERNOON

**Human Memory IV (446-419), Palladium Room**

1:30-1:45 | Shaw, Bjork, & Handal (410) |
1:50-2:05 | Reingold, Katz, & Scully (417) |
2:10-2:25 | Crick, Groven, & Naves-Benjamin (418) |
2:30-2:45 | Herrmann, Mullin, & Srulovicz (419) |

**Symposium II: Visual Object Conceptualization (420-425), Diplomat Room**

1:30-1:35 | Bederman (420) |
1:35-2:00 | Wasserman (421) |
2:05-2:30 | Landau (422) |
2:35-3:00 | Farg (423) |
3:05-3:30 | Bederman, Fiser, Cooper, & Gerhardt (424) |
3:35-3:55 | Berkes (425) |

**Language/Dialogue Processing II (426-430), Hampton Room**

1:30-1:45 | Schae & McDonald (426) |
1:50-2:00 | Bales & Whitten (427) |
2:05-2:15 | Schaalbecker, Reagin, Langston, & Gruner (428) |
2:20-2:35 | MacDonald & Pereirama (429) |
2:40-2:55 | Grimes (430) |

**Individual Differences (431-436), Blue Room**

1:30-1:50 | Asby, Maddux, & Lee (431) |
1:55-2:10 | Blackendon (432) |
2:15-2:30 | Hall & Vision (433) |
2:35-2:50 | Tozer & Reay (434) |
2:55-3:10 | Day, Dabul, Zarikian, & Kee (435) |
3:15-3:30 | Sternberg (436) |

**Judgment/Decision Making I (437-447), Empire Room**

1:30-1:45 | Seike & Shermans (437) |
1:50-1:10 | Stevenson (438) |
2:15-2:35 | Krone & Reifelma (439) |
2:40-2:50 | Watson (440) |
3:05-3:20 | Yang & Hogarth (441) |

**Animal Learning/Conditioning III (442-446), Ambassador Room**

1:30-1:45 | Wecker, Shaken, Raisle, Bag, & Weary (442) |
1:50-2:00 | McPherson, Kromme, & Bucking (443) |
2:05-2:20 | Weiss, Thomas, & Weisman (444) |
2:35-2:50 | Davidson & Besol (445) |
2:45-3:00 | Birnson & Corrall (446) |

**Implicit Memory II (447-451), Palladium Room**

3:00-3:20 | Winslow & Dukin (447) |
3:25-3:45 | Bertin & Macevich (448) |
3:50-4:10 | Dula, Prichard, Greenberg, & Greenberg (449) |
4:15-4:30 | Reif & McPherson (449) |
4:40-4:55 | Kellogg, Nescomo, Kammer, & Schmitt (451) |

**Perception II (452-454), Diplomat Room**

4:10-4:25 | Richards (452) |
4:30-4:45 | Yee, Halber, & Jones (453) |
4:50-5:00 | Perce & Kafise (454) |

**Semantic Printing (455-459), Hampton Room**

3:10-3:25 | Friedman (455) |
3:30-3:45 | Gork & Babka (456) |
3:50-4:10 | Smith & Bower (457) |
4:15-4:30 | Stoel & Neely (458) |
4:40-4:55 | Milberg, Verfaillie, & Bulos (459) |

**Repetition/Priming Effects II (460-463), Blue Room**

3:50-4:00 | Dumurgere (460) |
4:05-4:15 | Heiman (461) |
4:20-4:40 | Schimpf & Bamhauer (462) |
4:45-5:00 | Light & La Voz (463) |

**Judgment/Decision Making II (464-467), Empire Room**

3:35-3:50 | McCall (464) |
3:55-4:10 | Zweck & Weg (465) |
4:15-4:30 | Greer, Finnis, & Myer (466) |
4:35-4:55 | Arick, Joyner, Pezzu, Nash, Siegel-Jacobs, & Stone (467) |

**Animal Learning/Conditioning IV (468-472), Ambassador Room**

3:15-3:30 | McSweeney, Weatherly, & Johnson (468) |
3:35-3:50 | Houston, Cavnau, & Tom (469) |
3:55-4:15 | Schaps & Gray (470) |
4:20-4:35 | Cavinai & Bitterman (471) |
4:40-4:55 | Morgan & Perone (472) |