PROGRAM

30th Annual Meeting
The Psychonomic Society

THE HYATT REGENCY ATLANTA HOTEL
265 Peachtree St. NE
Atlanta, Georgia 30303

Friday, Saturday, Sunday
November 17, 18, 19, 1989

SPECIAL EVENTS/ANNOUNCEMENTS

REGISTRATION
Thursday, 4:00 p.m.–8:00 p.m., Main Lobby
Friday, 7:30 a.m.–5:00 p.m., Main Lobby
Saturday, 7:30 a.m.–3:00 p.m., Main Lobby

SYMPOSIA
Implicit Memory: Multiple Perspectives
Friday, 1:00 p.m.–3:30 p.m., Continental Ballroom North
Complexities of Social Knowledge Structure
Saturday, 1:00 p.m.–3:30 p.m., Continental Ballroom North

POSTER SESSIONS
Session 1: Friday, 5:30 p.m.–7:00 p.m., Regency Ballroom
Session 2: Saturday, 5:00 p.m.–6:30 p.m., Regency Ballroom
Authors will be at their posters during the two session times. Posters
will also be available for viewing beginning at 1:00 p.m. in the
Regency Ballroom each day.

BUSINESS MEETING
Saturday, 6:35 p.m., Phoenix Room

HOSPITALITY
Thursday, 4:00 p.m.–9:00 p.m. Main Lobby
Friday, 5:00 p.m.–7:00 p.m., Regency Ballroom
Saturday, 5:00 p.m.–7:00 p.m., Regency Ballroom

FUTURE MEETINGS
1990—New Orleans, November 16-18
1991—San Francisco, November 22-24
1992—St. Louis, November 13-15
NEW IN 1989-1990

J. EVANS
Bias in Human Reasoning
Causation and Consequences
7-10 A.M.-10:45 A.M. $24.95
Prepaid Offer, $19.95

D. F. HALPERN
Thought and Knowledge
An Introduction to Critical Thinking
2nd Ed.
2:30-4:45 P.M./7:00 P.M.$24.95
$20.95/5 copies/$14.95

M. HERSHONSEN (ED.)
The Moon Illusion
An Anomaly of Visual Space Perception?
9:15-11:30 A.M./7:00 P.M.$24.95
Prepaid Offer $19.95

M. HOLINS
Understanding Blindness
A Multidisciplinary Approach
9:45-1:45 P.M./6:00 P.M.$24.95

G. W. HUMPHREYS, V. BRUCE
Visual Cognition
1:45-3:45 P.M./6:00 P.M.$24.95

C. IZAWA (ED.)
Current Issues in Cognitive Processes
The Tulane Floweres Symposium on Cognition
1:45-4:45 P.M./6:00 P.M.$24.95

M. MILLS, W. SCHIFF
The Active Eye
New Software: Graphic Demonstrations of Cognitive Science and Perception
Contact our Sales Department for more information.
(301) 466-4110

M. JEAIBERG
Attention and Performance XIII
Moter Representation and Control
1:45-4:45 P.M./6:00 P.M.$24.95

B. KAUFER, P. L. ACKERMANN,
R. CRUDE (EDS.)
Abilities, Motivation and Methodology
The Minnesota Symposium on Learning and Individual Differences
6:00-9:00 P.M./9:00-11:00 P.M.$24.95

D. KATZ
Translated by L. E. Kroger
The World of Touch
2:00-5:00 P.M./7:00-10:00 P.M.$24.95

D. KLAHR, R. KOTOVSKY (EDS.)
Complex Information Processing
The Impact of Herbert A. Simon
3:10-6:10 P.M./6:00 P.M.$24.95

S. B. KLEIN, R. P. HOWBER
Contemporary Learning Theories:
Pavlovian
6:30-9:30 P.M./6:00 P.M.$24.95

S. B. KLEIN, R. P. HOWBER
Contemporary Learning Theories:
Behavioral
6:30-9:30 P.M./6:00 P.M.$24.95

E. C. POULTON
Bias in Quantifying Judgments
1:45-3:30 P.M./6:00 P.M.$24.95

K. H. PRIBRAM
Brain and Perception
Holonomy and Structure in Figural Processing
6:00-7:30 P.M./9:00-11:00 P.M.$19.95

continued on back cover...

PROGRAMS
Please bring your program with you. Additional programs will be available at the registration desk for $6.00. Programs may also be purchased in advance by sending a check or draft made payable to Lawrence Erlbaum Associates, Inc. Please allow 3 weeks for delivery.

MEETING ROOMS
Meetings rooms are located on the Terrace level (Regency Ballroom) and on the Exhibit & Meeting level (York/Smith, East A/B, Lancaster A/B/C and Lancaster D/E) of the main hotel building, and on the Ballroom level of the International Tower (Continental Ballroom North, Continental Ballroom South). A map showing the location of these rooms in the hotel is provided at the beginning of the printed program.

Psychonomic Time
Persons charging sessions this year will be asked to keep the spoken papers scheduled on time standardized against a clock at the Psychological 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 the day of arrival, Thursday, November 16, there will be a general reception with hors d'oeuvres from 4:00 p.m. to 9:00 p.m. in the Main Lobby near the Registration Desk. On Friday and Saturday, a reception with hors d'oeuvres will be held in the Regency Ballroom from 7:00 p.m. to 10:00 p.m. Note that the reception is combined with the Poster sessions on Friday and Saturday.

THE PROGRAM
The program was assembled from 547 submitted abstracts in accordance with priorities specified by the Governing Board. The program contains 506 presentations, of which 372 are spoken papers and 134 are poster presentations. The priorities require that Members who did not read a spoken paper last year have first priority for the spoken program, and Associates who did not present a poster last year have first priority for the poster sessions. As stated in the Call For Papers, 10 papers was allocated for spoken papers when no time was specified by the submitter. Otherwise, the requested time was allocated. In accordance with the priorities, all abstracts submitted by Members who did not read a paper last year and who wished to make a spoken presentation were scheduled on the program. The spoken papers are given by Members (348), by invited symposium speakers (14), and by foreign guests (10).
GENERAL INFORMATION

The poster presentations are given by Associates (75), by Members (53), and by program officers from NSF and NIMH (3). Associates who specified a poster presentation for their work (41) were scheduled on the poster program, and all other Associates who were willing to give a poster if the spoken program was full were scheduled in the poster sessions. Members who specified a poster presentation for their work were accommodated in the poster sessions (22). Otherwise, Members were scheduled in the poster sessions if they indicated a willingness to give a poster and could be fitted into sessions on the spoken program.

POSTER SESSIONS
The poster sessions will be held in conjunction with the General Reception/Hospitality Rooms at the end of each day’s spoken program. Posters will be available for viewing in the Regency Ballroom in the meeting center, beginning at 1:00 p.m. each day. 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 and NIMH in each poster session. (See Abstracts 215, 216, 217, 324, and Abstracts 420, 421, 422 in Poster Session 2.)

ADDRESS INDEX
The printed program includes an address index which provides, for each scheduled presentation, an address to which correspondence may be directed.

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Site</th>
<th>Submissions</th>
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<tr>
<td>1989</td>
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<tr>
<td>1985</td>
<td>Boston</td>
<td>547</td>
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OTHER MEETINGS
Participants may be interested in the following meetings scheduled in the Hyatt Regency Atlanta Hotel immediately prior to, or following, the Psychonomic Society meeting.
Society for Computers in Psychology
Thursday, November 16
Judgment/Decision Making Society
Sunday afternoon and Monday, November 19 and 20

OFFICERS OF THE SOCIETY
Chair: Anne Trismen (1989)
Secretary-Treasurer: Michael Rashotte (1987-89)

The names of two new members elected to the Governing Board for 1990-95 will be announced at the Business Meeting on Friday, November 18.
FRIDAY MORNING
Repetition/Priming Effects I (1-4) ........................................ 8:00-9:30, Continental Ballroom North
3-D/Movement Perception I (5-11) ....................................... 8:00-10:35, Continental Ballroom South
Problem Solving I (12-17) ............................................. 8:00-10:10, York/Stuart
Human Learning/Memory I (18-23) .................................. 8:00-09:45, Essex A/B
Animal Cognition I (24-29) ........................................... 8:00-09:55, Lancaster A/B/C
Letter/Word Processing I (30-35) ................................... 8:00-10:05, Lancaster D/E
Attention I (36-42) .................................................... 9:40-12:15, Continental Ballroom North
Repetition/Priming Effects II (43-47) ................................ 10:45-12:15, Continental Ballroom South
Individual Differences I (48-53) .................................... 10:20-12:10, York/Stuart
Language/Discurso Processing I (54-60) ............................ 9:55-12:10, Essex A/B
Associative Learning I (61-67) ....................................... 10:05-12:15, Lancaster A/B/C
Human Learning/Memory II (68-73) ................................. 10:15-12:15, Lancaster D/E

FRIDAY AFTERNOON
Symposium I (74-80) .................................................. 1:00-3:00, Continental Ballroom North
3-D/Movement Perception II (81-87) ................................. 1:00-3:20, Continental Ballroom South
Animal Cognition II (88-93) ........................................ 1:00-3:05, York/Stuart
Categorization (94-99) ................................................ 1:00-3:25, Essex A/B
Age and Cognitive Functioning I (100-101) ...................... 1:00-3:30, Lancaster A/B/C
Pattern Perception (108-113) ....................................... 1:00-3:10, Lancaster D/E
Speech Perception (114-119) ........................................ 3:40-5:30, Continental Ballroom North
Individual Differences II (120-125) ................................. 3:30-5:30, Lancaster D/E
Animal Learning and Behavior I (126-132) ....................... 3:15-5:30, York/Stuart
Human Learning/Memory III (133-138) ....................... 3:35-5:30, Essex A/B
Emotion and Cognition (139-143) ................................. 3:40-5:30, Lancaster A/B/C
Tactile Research (144-150) ........................................ 3:20-5:30, Lancaster D/E

FRIDAY EVENING
Poster Session I (151-217) .......................................... 5:30-7:00, Regency Ballroom
Hospitality ..................................................................... 5:00-7:00, Regency Ballroom

SATURDAY MORNING
Repetition/Priming Effects III (218-222) ......................... 8:00-9:50, Continental Ballroom North
Attention II (223-228) ............................................... 8:00-10:15, Continental Ballroom South
Human Learning/Memory IV (229-233) ......................... 8:00-9:25, York/Stuart
Language/Discurso Processing II (234-240) ................... 8:00-10:20, Essex A/B
Animal Memory (241-247) ......................................... 8:00-10:35, Lancaster A/B/C
Recognition/Recall I (248-252) ................................ 8:00-09:50, Lancaster D/E
Information Processing I (253-258) ............................... 10:00-12:05, Continental Ballroom North
Cognition I (259-263) ................................................. 10:20-12:05, Continental Ballroom South
Problem Solving II (264-270) ................................... 9:45-12:00, York/Stuart
Letter/Word Processing II (271-275) .............................. 10:30-12:20, Essex A/B
Animal Cognition III (276-280) ................................. 10:45-12:30, Lancaster A/B/C
Recognition/Recall II (281-286) .................................. 10:00-12:05, Lancaster D/E

SATURDAY AFTERNOON
Symposium II (287-293) ............................................. 1:00-3:30, Continental Ballroom North
Judgment/Decision Making I (294-306) ......................... 1:00-3:30, Continental Ballroom South
Psychophysics (307-317) ............................................ 1:00-3:30, York/Stuart
Music (318-319) ..................................................... 1:00-2:40, Essex A/B
Letter/Word Processing III (319-321) ..................... 1:00-02:40, Lancaster A/B/C
Associative Learning II (318-322) .............................. 1:00-2:40, Lancaster D/E
Laterality (323-327) .................................................. 3:40-5:10, Continental Ballroom North
Human Learning/Memory V (328-332) ..................... 3:30-5:05, Continental Ballroom South

Cognition II (333-336) ............................................. 3:40-4:55, York/Stuart
Informatics Processing II (337-342) ............................. 2:50-5:00, Essex A/B
Perception (343-349) ............................................... 2:50-3:00, Lancaster A/B/C
Animal Learning and Behavior II (350-355) .................. 2:40-4:30, Lancaster D/E

SATURDAY EVENING
Poster Session II (356-422) ...................................... 5:00-6:30, Regency Ballroom
Hospitality .................................................................... 5:00-7:00, Regency Ballroom
General Business Meeting .................................... 6:35, Phoenix

SUNDAY MORNING
Age and Cognitive Functioning II (423-429) .............. 8:00-10:30, Continental Ballroom North
Vision (430-435) ..................................................... 8:00-9:35, Continental Ballroom South
Judgment/Decision Making II (436-443) ..................... 8:00-10:50, York/Stuart
Picture Memory Processing (444-450) ......................... 8:00-10:30, Essex A/B
Psycholinguistics I (451-457) .................................. 8:00-10:30, Lancaster A/B/C
Animal Learning and Behavior III (458-464) ............... 8:00-10:30, Lancaster D/E
Age and Cognitive Functioning III (465-471) .............. 10:40-11:15, Continental Ballroom North
Timing (472-479) ..................................................... 10:40-1:00, Continental Ballroom South
Judgment/Decision Making III (480-484) ................. 11:00-11:30, York/Stuart
Attention III (485-491) .......................................... 10:40-1:15, Essex A/B
Psycholinguistics II (492-498) .................................. 10:40-1:15, Lancaster A/B/C
Human Learning/Memory VI (499-506) ..................... 10:30-1:10, Lancaster D/E
CONDENSED SCHEDULE C

FRIDAY MORNING

Repetition/Priming Effects I (1-4), Continental Ballroom North
9:40-10:00 Wurm, Denker, Parnasman, Glucksman, Thierens, Mustard, & Warren (36)
10:05-10:20 Buttel & Parnasman (37)
10:25-10:40 Trick & Pylyshyn (38)
10:45-11:05 Pccari & Johnson (39)
11:10-11:30 Schacter & Shelden (40)
11:35-11:55 Bonnet (41)
12:00-12:10 Warner, Konishi, & Jules (42)

3-D/Movement Perception I (5-11), Continental Ballroom South
9:00-9:20 Yonas (5)
9:25-9:40 Shipley & Kellen (6)
9:50-10:05 Yonas, Cron, & Thompson (7)
10:05-10:25 Kaiser & McAfee (8)
10:30-10:45 Frey (9)
10:50-10:55 Prullé & Rock (10)
11:00-10:00 Ramsden, Paules, & Prusiner (11)

Problem Solving I (12-17), York/Stuart
8:00-8:20 Stember & Lakat (12)
8:25-8:40 Bugaj & Bertenthal (13)
8:55-9:00 Voss & Mistletoe (14)
10:30-10:45 Greens, Karpi, Jackson, & Michalk (15)
9:30-9:45 Spoth & Horvat (16)
9:50-10:05 Reichl & Billington (17)

Human Learning/Memory I (18-23), Essex A/B
8:00-8:10 Magli & Green (18)
8:15-8:25 Dore, Shute, & Bailey (19)
8:30-8:40 MacLeod (20)
8:45-8:55 Neil, Beck, & Barotzic (21)
9:00-9:15 Etirahern, Schacter, Corb, & Hunt (22)
9:10-9:20 Brown & Woskowitch (23)

Animal Cognition I (24-29), Lancaster A/B/C
8:00-8:30 Pepperberg (24)
8:45-9:15 Rambach, Hopkins, & Wisbush (25)
9:00-9:30 Sotin & Thomas (26)
10:00-10:15 Boyen (27)
11:00-11:15 Etirahern (28)
10:30-10:45 Hort & Ghelato (29)

Lettor/Word Processing I (30-35), Lancaster D/E
9:00-9:20 Schlesinger & Waters (30)
9:25-9:40 Peter (31)
9:50-10:00 Bower, Herg, & Casel (32)
9:55-10:00 Kruger & Smallender (33)
10:10-10:20 Gerber & Bidi (34)
10:45-10:00 Berrios, Blount, & Radeau (35)

Attention I (36-42), Continental Ballroom North
9:40-10:00 Wurm, Denker, Parnasman, Glucksman, Thierens, Mustard, & Warren (36)
10:05-10:20 Buttel & Parnasman (37)
10:25-10:40 Trick & Pylyshyn (38)
10:45-11:05 Pccari & Johnson (39)
11:10-11:30 Schacter & Shelden (40)
11:35-11:55 Bonnet (41)
12:00-12:10 Warner, Konishi, & Jules (42)
FRIDAY AFTERNOON

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
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<tbody>
<tr>
<td>Symposium I (1440-80), Continental Ballroom North</td>
<td>1:00-1:25</td>
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<tr>
<td>1:00-1:25 Schuster (75)</td>
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<td>1:05-1:25 Foster &amp; Becker (75)</td>
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<td>1:30-1:30 Macquar &amp; Lassen (76)</td>
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<td>1:35-1:50 Gas (77)</td>
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<td>2:00-2:20 Butts (78)</td>
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<td>2:25-2:50 Roeder (80)</td>
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<td>2:55-3:05 Reuther, Cooper, &amp; Deshayes (79)</td>
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<tr>
<td>3:05-3:30 3-D Movement Perception II (81-87), Continental Ballroom South</td>
<td>1:00-1:15</td>
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<tr>
<td>1:00-1:15 Bruzanin &amp; Tix (81)</td>
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<td>1:05-1:10 Tanaka, Gooden, &amp; Beck (82)</td>
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<td>1:20-1:25 Leland &amp; Ainslie (83)</td>
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<td>1:25-1:50 Todd (84)</td>
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<td>1:55-2:20 Merkin &amp; Hune (85)</td>
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<td>2:25-3:00 Loomis &amp; Da Silva (86)</td>
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<td>3:05-3:15 Eising (87)</td>
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<td>Animal Cognition II (88-93; York/Stuart)</td>
<td>1:00-1:15</td>
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<td>1:00-1:15 Wannam, Tannney, Burt, &amp; Suyzenh (88)</td>
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<td>1:05-1:20 Tinkle &amp; White (89)</td>
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<td>1:25-1:35 Mey &amp; Eckerman (90)</td>
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<td>1:35-1:45 Mathu, Penner, &amp; Nachigal (91)</td>
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<td>2:15-2:35 Holder, Herman, &amp; Karac (92)</td>
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<td>2:45-3:45 Herman, Morey-Samora, &amp; Brown (93)</td>
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<td>Categorization (94-99), Essex A/B</td>
<td>1:00-1:15</td>
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<td>1:00-1:15 Bellosta (94)</td>
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<td>1:05-1:20 Bilsam &amp; Jerg (95)</td>
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<td>1:25-1:25 Koh &amp; Meyer (96)</td>
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<td>2:10-2:30 Neufeld &amp; Glick (97)</td>
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<td>2:35-2:55 Glick &amp; Bower (98)</td>
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<td>3:00-3:20 Pevel, Glick, &amp; Henkie (99)</td>
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<td>Age and Cognitive Functioning I (100-107), Lancaster A/B/C</td>
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<td>1:00-1:15 Haefer, Rynas, Stollflus, &amp; Zuck (100)</td>
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<td>1:05-1:30 Sager (101)</td>
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<td>1:35-1:50 Sallou and Baloz (102)</td>
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<td>1:55-2:10 Pollock, Logan, &amp; Ball (103)</td>
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<td>2:15-2:25 Plank &amp; Dang (104)</td>
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<td>3:20-3:40 Madsen (105)</td>
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<td>3:45-3:55 Gaudens &amp; Paterson (106)</td>
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<td>4:50-5:15 Einsig (107)</td>
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<td>Pattern Perception (108-113), Lancaster D/E</td>
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<td>1:00-1:15 Askaro &amp; Palmer (108)</td>
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<td>1:20-1:40 Ohlson &amp; Schroeder (110)</td>
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<td>2:05-2:20 May, Gatterman, Brown, &amp; Doolin (111)</td>
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FRIDAY EVENING, 5:30-7:00

POSTER SESSION I (151-217), Regency Ballroom

151 Morel-Sammel, Herman, & Beier
152 Vassil
153 Sergen & Carballos
154 Pfeffer
155 Pfeffer & Balon
156 Shaw
157 Gordon
158 Den & Sobiek
159 Bannet, Jr., & Ludvigson
160 Fowlie & Strowbridge
161 Hogan, Schub, & Homan
162 Mauchen, Bernstein, & Brockman
163 Doeng
164 Nabulsky, Goodman, & Parker
165 Wilson & Cook
166 Gill & Gowan
167 Nagelgall
168 Brown & Hecht
169 Blumenthal
170 Kiley, Hartley, & Reynolds
171 Anebercy
172 Lively & Sugar
173 McDow & Fisen
174 Standing & Lyon
175 Neitze, Hohn, Gschul, & Taylor
176 Reece, Proctor, Weeks, & Denier
177 Sidky
178 Almens, Schuch, & Dobkin
179 Sherwood
180 Allen
181 Kornblum & Sweet
182 Brumm & Brook
183 Murta & Kuhn
184 Golding, Fowler, Long, & Latus
185 Clark & Fitzwater
186 Badovsky & Zacks
187 Hekay & Jost
188 Miller & Zhu
189 Mitchell & Pelligrino
190 Taylor & Tversky
191 Levitch & Morris
192 Wixson
193 Hendrich, Healy, & Bourse, Jr.
194 Russel
195 Schwartz, Haverda, & Smith
196 Johnson, Santos-Gomez, Wangerger, & Nelson
197 Simpson, Krueger, & Beyer
198 Brown, Nelsen, & Mitchell
199 Moore
200 Schweri
201 Bars
202 Chamer, Cambri, Cons, & Phelan
203 Irby & Prinzmetal
204 Hendry & Fenfert
205 Armstrong
206 Chad & Lyon
207 Laliberte, Brown, Carter, & Bath
208 Ems & Wigg
209 Hacsi & Panzerana
210 Wright & Main
211 Kiff & Holman
212 Schiavo & Tversky
213 Kanwisher
214 Tar & Piker
215 Young
216 Selkowt
217 Carlson
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tr>
<td>8:00</td>
<td>Welcome</td>
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<td>8:00-8:15</td>
<td>Spled, Brindlinger, Turner, &amp; Maconover (423)</td>
<td>Continental Ballroom North</td>
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<tr>
<td>8:20-8:30</td>
<td>Kost &amp; Wilkening (424)</td>
<td>Continental Ballroom North</td>
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<td>DeSalle (425)</td>
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<td>Meekmore &amp; Hutterlecker (426)</td>
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<td>Ward (427)</td>
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<td>Brewer (425)</td>
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<td>Gasser &amp; Smith (429)</td>
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<td>Fox, Weinsdorf, &amp; Blake (430)</td>
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<td>Dixon &amp; Di Lollo (431)</td>
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<td>Griser, Groer, Bisch, &amp; Di Lollo (432)</td>
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<td>Colson (433)</td>
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<td>Long &amp; Tuck (434)</td>
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<td>Swanson, Seizer, Judy, Newell, &amp; Kanda (436)</td>
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<td>Levin &amp; Chapman (437)</td>
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<td>Stemberger (456)</td>
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<td>10:00-10:15</td>
<td>Glass (457)</td>
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