Abstracts
OF THE PSYCHONOMIC SOCIETY

38th Annual Meeting

Marriott Hotel
1201 Market St.
Philadelphia, Pennsylvania 19107

Thursday, November 20
through
Sunday, November 23, 1997

A PSYCHONOMIC
SOCIETY
PUBLICATION

Special Events/Announcements

REGISTRATION
Thursday, 4:30 p.m. – 8:30 p.m., Grand Ballroom Foyer
Friday, 7:30 a.m. – 5:00 p.m., Grand Ballroom Foyer
Saturday, 7:30 a.m. – 3:00 p.m., Grand Ballroom Foyer

SYMPOSIA
The Rescorla–Wagner Model 25 Years Later
Friday, 1:00 p.m. – 3:15 p.m., Salon E
Developing Models of High-Dimensional Semantic Space
Saturday, 1:30 p.m. – 3:50 p.m., Salon E

POSTER SESSIONS
Session I: Thursday, 7:00 p.m. – 8:30 p.m., Grand Ballroom, Salon GH
Session II: Friday, 5:30 p.m. – 7:00 p.m., Grand Ballroom, Salon GH
Session III: Saturday, noon – 1:30 p.m., Grand Ballroom, Salon GH
Session IV: Saturday, 6:00 p.m. – 7:30 p.m., Grand Ballroom, Salon GH
Authors will be at their posters during the four session times. Posters will be
available for viewing from 7:00 p.m. Thursday evening to noon on Friday
(Poster Session I), 3:00 p.m. Friday to 9:00 p.m. Friday (Poster Session II ),
from 9:00 a.m. Saturday to 1:30 p.m. Saturday (Poster Session III), and from
3:00 p.m. Saturday to 9:00 p.m. Saturday (Poster Session IV).

BUSINESS MEETING
Saturday, 5:35 p.m. – 6:00 p.m., Salon F

HOSPITALITY
Thursday, 5:30 p.m. – 8:00 p.m., Grand Ballroom
Friday, 5:30 p.m. – 7:00 p.m., Grand Ballroom
Saturday, 6:00 p.m. – 7:30 p.m., Grand Ballroom

FUTURE MEETINGS
1998 Dallas, November 19–22
1999 Los Angeles, November 18–21
Please quote this reply code on all orders/requests TBK.

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**HOTEL**

The Philadelphia Marriott, 1201 Market Street, Philadelphia, PA 19107 (215) 317-5000 will be the meeting site. A room reservation form is enclosed with this program. It is very important that you make reservations as early as possible. You must be received by the hotel no later than three days before November 21, 1977, in order to ensure room availability. Reservations may be faxed care of the Reservation Department at 215-625-6101, or by calling directly at the number above. Please be sure to obtain a confirmation number for your reservation.

**TRAVEL TO AND IN PHILADELPHIA**

Discounted airfare and car rental rates have been negotiated for our meeting with Conventions in America. You will receive 5%-10% off the lowest applicable fares on USAirways, or the guaranteed lowest available fare on any carrier. Travel between November 17-26, 1977. All attendees booking through CIA will receive free flight insurance and be entered in their quarterly drawing for domestic or international travel (Alamo Rent A Car is also offering special rates starting as low as $30/day or $134/week, with discounts for frequent flyers).

Call Conventions In America—1-800-929-8242, ask for Group #528. Outside 800 area, call 619-432-2986/619-432-7575. Reservation hours: M-F 9:30 am-5:00 pm Pacific Time, Internet: flyein@sectravel (24 hour emergency number). If you call direct: USAirways 1-800-344-8644, ask for Goldfile #141960. Alamo—1-800-732-3220, D #78528 CN.

The cost of a cab from the Philadelphia airport is $20. The SEPTA train from the airport in Market Street (across the street from the Marriott) is $5 and the local shuttle is $8 one-way, $13 round trip. If you are coming via train, the Amtrak stations at 30th Street and Market Street, a short cab ride from the Marriott. Parking at the Marriott is valet only and is $21 per day. Several self-parking lots are near the hotel and are generally about $12 per day. The Philadelphia is an expensive downtown bus system using small buses for getting to historic and/or commercial areas.

**REGISTRATION**

Registration will be held at the Grand Ballroom Foyer registration booths. Please register. Preprinted name tags will be available for those listed as a presenter in the program. Pre-sponsors with a preprinted name tag should fill out a registration card so that the Society may obtain an accurate count of the number of attendees, and information on where individuals are staying.

**PROGRAMS**

Please bring your program with you. Additional programs will be available at the registration desk for $10.00. 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: Programs, Psychonomic Society, 1710 Forbush Rd., Austin, TX 78704. The cost of an advance program is $9.00, or $10.50 for addresses outside North America.

**MEETING ROOMS**

Meeting rooms are located on the hallways level 3 of the hotel. A map showing the location of these meeting rooms is provided on page 2.

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**GENERAL INFORMATION**

Persons chaired sessions this year will be asked to keep the paper schedules adhered to a close schedule against the allow for the Psychonomic registration desk. A standardized time band is intended to accommodate late requests from attendees who wish to change their talk from one session to another. All members are invited to synchronize their watches with Psychonomic time at the registration desk.

**SCHOLARLY**

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

**HOSPITALITY**

On Thursday, November 20, there will be a general reception with a cash bar between 5:30 and 8:00 p.m. in the Grand Ballroom. On Friday and Saturday, a reception with cash bar will be held in the Grand Ballroom from 5:30 to 7:00 p.m. on Friday, and from 6:00 to 8:00 p.m. on Saturday. Note that the reception is combined with the poster session on each day.

**THE PROGRAM**

The program was assembled from 849 submissions. There are 749 presentations: 346 spoken and 403 posters. There were more requests for spoken papers than available time, resulting in only members being considered for spoken papers. Using the published criteria, members requesting a spoken paper, who had presented spoken papers in 1995 and 1996, submitted 68. Of that number a random set of papers were selected from the program. 38 were selected and were turned down. There were also more requests for posters than available space. All members and associate members were accepted for posters, but sponsored P.I.D.s. graduate students, and others were turned down (77), according to the published criteria for presentation.

**Session**

The program was divided into 110 sessions. A poster session will be held in the Grand Ballroom, Grand GH. The three evening sessions will be held in conjunct with the general reception (hospitability). The authors of posters are urged to make their posters available for viewing on the following schedule.

<table>
<thead>
<tr>
<th>Session</th>
<th>Viewing Time</th>
<th>Author Present</th>
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<tbody>
<tr>
<td>Thursday Evening</td>
<td>7:00 p.m. - Noon</td>
<td>Fri. 7:00 p.m. - 10:00 p.m.</td>
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<tr>
<td>Friday Evening</td>
<td>7:00 p.m. - 11:00 p.m.</td>
<td>11:00 p.m. - 2:00 a.m.</td>
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<tr>
<td>Saturday Noon</td>
<td>9:00 a.m. - 1:00 p.m.</td>
<td>Noon - 1:00 p.m.</td>
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<tr>
<td>Saturday Evening</td>
<td>7:00 p.m. - 11:00 p.m.</td>
<td>11:00 p.m. - 2:00 a.m.</td>
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It is hoped that the extended viewing time will allow all interested persons to see posters of their choice, and reduce the crowded conditions we sometimes had at the poster session. As usual, the presenting author is required to be present during the official times shown in the program. The admission of the Thursday evening poster session will be evaluated to determine if it will be continued next year. Members are encouraged to express their opinions about the Thursday poster session as a member of the Governing Board.
Society for Computers in Psychology
27th Annual Meeting in Philadelphia
1997 Program Highlights

World-Wide Web Applications:
Teaching on the Web
Web Experiments
Design and Use of On-line
Information Resources
Tutorial on Creating Web Materials
Computers in Undergraduate Laboratories
Computers in Cognitive Research
Computers in Clinical Psychology
Computers in Teaching Statistics
and Research Methods
Presidential Address:
Margaret Anderson
"SCIP: Past, Present, Future"

Invited Address: Curt Burgess, UC Riverside
Speaking on Using High-Dimensional Semantic Space

Commercial Demonstrations and Vendor Displays

Registration Form on the Previous Page
For more information, visit the SCIP Web page:
http://www.lafayette.edu/allanr/scip.html
THURSDAY EVENING

Hospitality .............................................................. 5:30-8:00, Grand Ballroom
Poster Session I (1-108) ........................................... 7:00-8:30, Grand Ballroom, Salon GH

FRIDAY MORNING

Short-Term/Working Memory (101-105) .................. 8:00-9:55, Salon AB
Letter/Word Processing I (106-110) ....................... 8:00-9:45, Salon CD
Psycholinguistics I (111-115) .............................. 8:00-9:50, Salon E
Human Learning and Memory I (116-121) .......... 8:00-9:55, Salon F
Mental Rotation (122-127) ................................. 8:00-9:55, Salon I
Animal Cognition I (128-132) .............................. 8:00-9:50, Salon KL
Comparisons (133-137) ...................................... 10:04-11:55, Salon AB
Letter/Word Processing II (138-142) ................. 10:04-11:55, Salon CD
Psycholinguistics II (143-147) ......................... 11:10-12:05, Salon E
Implicit Memory (148-151) ................................ 12:02-12:50, Salon F
Picture Memory/Processing I (154-158) ........... 13:10-12:50, Salon GH
Animal Cognition II (159-164) ...................... 10:04-11:55, Salon KL

FRIDAY AFTERNOON

Methods, Models and Statistics (165-169) ........... 1:00-2:55, Salon AB
Attention and Memory (170-175) ...................... 1:00-2:55, Salon CD
Symposium I: The Marr-Jurkowska-Wagner Model 25 Years Later (176-182) ... 1:00-2:55, Salon E
Cognition I (183-188) ...................................... 1:00-2:55, Salon F
Neuropsychology and Laterality (189-194) ....... 1:00-3:05, Salon GH
Perception: Touch I (195-199) ......................... 1:00-2:45, Salon KL
Developmental Processes (200-206) ................. 2:36-3:36, Salon AB
Masking and Inhibitory Processing (207-212) .... 2:36-3:36, Salon CD
Psycholinguistics II (213-218) ...................... 2:36-3:36, Salon E
Cognition II (219-224) .................................. 3:36-5:50, Salon F
Neuropsychology/Information Processing (225-229) ... 3:36-5:50, Salon GH
Perception: Vision (230-235) ......................... 3:00-5:15, Salon KL

FRIDAY EVENING ................................................... 5:30-7:00, Grand Ballroom, Salon GH

Hospitality .............................................................. 5:30-7:00, Grand Ballroom

SATURDAY MORNINGS

3-D Object Perception (338-342) ...................... 8:00-9:50, Salon AB
Language/Discourse Processing I (343-348) ....... 8:00-9:55, Salon CD
Human Learning and Memory II (349-354) ....... 8:00-9:55, Salon E
Cognition III (355-359) .................................. 8:00-9:55, Salon F
Perception: Touch II (360-364) .................... 8:00-9:45, Salon GH
Individual Differences (365-370) .................. 8:00-9:55, Salon KL
3-D/Spatial Representation (371-375) ............... 10:10-11:55, Salon AB
Reception/Priming Effects (381-386) ............ 9:50-12:00, Salon E
Recognition Memory I (387-392) ............... 9:50-12:00, Salon F
Animal Cognition: In Honor of Vera Huang (393-398) ... 10:10-12:05, Salon GH
Motor Control (399-404) ......................... 9:50-12:00, Salon KL

SATURDAY NOON .................................................. 12:00-1:30, Grand Ballroom, Salon GH

SATURDAY AFTERNOON

3-D/Movement Perception (507-511) ............... 1:30-3:30, Salon AB
Letter/Word Processing IV (512-516) ........... 1:30-3:30, Salon CD
Symposium II: Developing Models of High-Dimensional Semantic Space (517-523) ... 1:30-3:30, Salon E
Judgment and Decision Making I (524-528) .... 1:30-3:30, Salon F
Attention (529-532) ..................................... 1:30-2:55, Salon U
Animal Learning (533-538) ......................... 1:36-3:40, Salon KL
Human Learning and Memory III (539-544) ... 2:36-5:25, Salon AB
Psycholinguistics IV (545-550) .................. 3:36-5:25, Salon CD
Information Processing I (551-554) ............ 4:00-5:55, Salon E
Judgment and Decision Making II (555-559) .... 3:30-5:25, Salon F
Visual Search (560-566) ................................ 3:05-5:26, Salon U
Strong Effect and Semantic Congruity (567-570) ... 4:00-5:20, Salon KL

SATURDAY EVENING ............................................. 5:30-6:00, Salon F

Poster Session IV (701-702) .......................... 6:00-7:30, Grand Ballroom, Salon GH

Hospitality .............................................................. 6:00-7:56, Grand Ballroom

SUNDAY MORNING ................................................ 8:00-10:10, Salon AB
Spatial Attention (679-684) .............................. 8:00-10:10, Salon E
Recognition Memory II (685-690) ................. 8:00-10:10, Salon E
Perception (691-696) ................................... 8:00-10:00, Salon F
Associative Learning: Animals (697-702) ...... 8:00-10:10, Salon I
Psycholinguistics and Speech Perception (703-708) .... 8:00-9:15, Salon KL
Audition and Music Perception (709-711) ...... 9:20-10:55, Salon KL
Picture Memory/Processing II (712-717) ........ 10:20-12:30, Salon KL
Information Processing II (718-724) ............. 10:15-12:45, Salon CD
Language/Discourse Processing II (725-731) .... 10:20-12:50, Salon KL
Perception: Illusions (732-737) ............... 10:10-12:15, Salon F
Animal Learning, Behavior, and Sensation (738-744) ... 10:20-12:30, Salon GH
Cognition IV (745-749) ................................ 11:00-12:45, Salon KL

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<th>Thursday</th>
<th>Hospitality</th>
<th>Grand Ballroom, Salon GH</th>
<th>Poster Session I</th>
<th>7:00-8:30</th>
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<td>Short-Term Working Memory</td>
<td>Letter/Word Processing I</td>
<td>Letter/Word Processing II</td>
<td>10:00-11:55</td>
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<td>Categoryization</td>
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<td>Methods, Models, and Statistics</td>
<td>Attention and Memory</td>
<td>Developmental Processes</td>
<td>3:00-5:30</td>
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**Friday**

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|                   | 3-D/Spatial Representation | Letter/Word Processing IV | 10:10-11:55       |           |
|                   | 10:10-11:55               |                          |                  |           |

**Saturday**

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<tr>
<th>Evening</th>
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<td>Repetitive/Priming Effects II</td>
<td>Spatial Attention</td>
<td>Picture Memory/Processing II</td>
<td>10:10-12:30</td>
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<td>8:00-10:10</td>
<td>8:00-10:00</td>
<td>10:10-12:30</td>
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|                   | Language/Discourse Processing II | Information Processing II | 10:15-12:45       |           |
|                   | 10:20-12:30               |                          |                  |           |
THURSDAY EVENING, 7:00-8:30
POSTER SESSION I (1-100), GRAND BALLROOM, SALLE GH

(1) Liu & Weimann
(2) Dank & Meijerke
(3) Bonaf, Catalani, & Massobe
(4) Wu
(5) Argiri & Sauvage
(6) Friedenberg & Drass
(7) Johnson
(8) Luchtb & Dargi
(9) Joseph & MacLin
(10) Farrell & Henderson
(11) Gribewicky, Yomade, & Stride
(12) Guss, Temple, Warn, Densiter, Schussel, & Dowell
(13) Silberg & Munger
(14) Pan & Zhou
(15) Pawnatan, Rieg, Greenwood, & Chavez
(16) Ribelin-Filho, De Souza, & De Silva
(17) Benghord & Jowhouse
(18) Kan
(19) Shaw, Holt, Klein, & Phillips
(20) van Sooij & Siemens
(21) Woller & Drerum
(22) Uzil, Mates, & Miller
(23) Battista & Bariaped
(24) Goldmark
(25) Hu, Cynagn, & Intriligator
(26) Horwitz & Meld
(27) Zuercher, Szkolik, & Gromals
(28) Arnell & Ouelatt
(29) Bich & Brown
(30) Fel & Lengsing
(31) Wright & Richard
(32) Tuoh
(33) Dunnick, Gobbo, Noely, & Dutzin
(34) Dunn & Ath
(35) Lea
(36) Armstrong
(37) Ben
(38) Shah, Heigard, & Miyake
(39) Neter, Nosek, & Kennedy
(40) Mielke & Mielke
(41) Map, Ermc, & Knight
(42) Schrader & Caster
(43) Phillips & Luthar
(44) McDemott
(45) Companini, Bubke, & Fox
(46) Gonslaves & Pallo
(47) Lutinas & Rogers
(48) Kelling, Hu, & Marks
(49) Adler
(50) Platt, Lacey, Ichob, & Finkelstein

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FRIDAY MORNING

CONDESD SCHEDULE C

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Short Term/Working Memory (101-105), Salon AB
8:00-0:20 Humphreys & Tobar (101)
1:35-3:45 Engle, Tubbski, Laughlin, & Conway (102)
5:10-9:10 Udah & Cohen (103)
9:15-11:30 Malet & Momen (104)
9:35-9:50 Nairz & Kelly (105)

Letters/Word Processing I (132-149), Salon CD
4:00-8:12 Kelly, Horst, & Verrick (186)
8:20-8:50 Frost, Deutsch, & Faster (107)
8:50-9:20 Kamann & Kalle (108)
9:00-9:30 Lupker, Taylor, & Preston (199)
9:25-9:40 Colombo, Peiss, & Gascopatel (198)

Psychological I (111-115), Salon E
7:00-8:13 Caplan & Waters (111)
8:20-9:00 MacWhely, Feldman, Gupta, & Bordo (112)
8:45-9:15 Girenc & Gorcan (113)
9:10-9:25 Komers & Kopmen (114)
9:25-9:45 Stomberger & Berman (115)

Human Learning and Memory I (116-121), Salon F
7:00-8:15 Fisher (116)
8:20-8:50 Holmes & Waters (117)
8:45-9:15 Hawry, Chaske, & Thekl (118)
9:15-9:40 Frank & Geraci (119)
9:35-9:50 McDaniel, Gneuser, & Einstein (120)

Mergeregories I (127-131), Salon I
6:00-8:15 Korai (122)
8:20-8:35 Nelson & Mercer (123)
8:45-9:05 Speelman & Hjort (124)
8:55-9:05 Schwaningerflug, Martin, & Takahashi (125)
9:10-9:20 Herrig, Kiser, & Dunderly (126)
9:25-9:35 Minnery (127)

Animal Cephalopis I (128-132), Salon KL
6:00-8:15 Bond, Kamil, & Cline (128)
8:20-8:35 Hong & Matheson (129)
8:45-9:05 Zanott, Cook, & Weaver (130)
9:05-9:25 Kamil & Jones (131)
9:25-9:45 Cheng (132)

Categoryclass (133-137), Salon A
10:05-10:25 McCelland & Rogers (133)
10:30-10:50 Paternoster, Hodges, & Pykell (134)
10:55-11:10 Ross (135)
11:15-11:30 Brooks & Wood (136)
11:35-1:00 Storms, De Bore, & Shum (137)

Letter/Word Processing II (138-142), Salon CD
10:00-10:20 McCelland, Schneider, & Smith (138)
10:25-10:45 Remington, McCann, & Vm Sebati (139)
10:50-11:10 Seizburg (140)
11:15-11:30 Baltas & Spradit (141)
11:35-11:50 Rassali & Barch (142)

Psychologialntes I (143-147), Salon E
10:10-10:30 Brient, Evertt, & Shin (143)
10:35-10:50 Cusati (144)
10:55-11:10 Agroll, Snow, & Hans (145)
11:15-11:35 Nagele & Terrave (146)
11:35-12:00 Serna, Eiffet, & Barch (147)

Imprintl Memory (148-152), Salon E
10:05-10:15 Bucher, Steffes, & Reikhail (148)
10:20-10:35 Sluder (149)
10:40-10:50 Winnal, Hollways, & Sharratt (150)
10:55-11:10 Sorens & Mells (151)
11:15-11:30 BATonset, Galas, Cerrans, & Harris (152)
11:35-11:50 Cooper, Hillers, Szczez, & Lins (153)

Picture Memory/Processing I (154-158), Salon I
10:10-10:20 Roizin, Barton, & Searcy (154)
10:30-10:45 Delfeshacker, Vanier, Johannson, & Toit (155)
10:45-11:00 O'Toole, Vino, Vol, & Sauer (156)
11:00-11:30 Abeid, Valentin, Edelina, & Pousinnet (157)
11:35-11:55 Roader, Bachtell, & McKoon (158)

Animal Cognitive I (159-164), Salon KL
10:00-10:15 Thompson, Olsen, & Gondron (159)
10:20-10:35 Thompson, Thorup, & Olsen (160)
10:40-11:00 Peeperker, Rau, & Neuman (161)
11:00-11:15 Innes & Dimitri (162)
11:20-11:35 Sainee, Phillmore, & Weinman (163)
11:40-11:55 Sainee, Phirm, & Horhman (164)
SUNDAY MORNING

POSTER SESSION I

Salem CI, Thursday Evening, 7:00-8:30

- VISION -

(1) Perceptual Learning Transfer—Learning in Getting Much Faster, ZELLLI, NRC Institute, and DAPMINA SPINNALL, Hebrew University—is a perceptual learning task of motion direction discrimination, subjects' improved performance via practice in direction specific. Namely, in a new motion direction, learning has to start from scratch, but the results of classical stimulus-specific learning that does not transfer to new directions. We find, however, that when subjects continue to practice in the new direction, their improvement is much faster. Perceptual learning therefore transfers, and cannot be completely due to visuo motor processes.

(2) The Effects of Ritalin on Executive Function in 5th Grade Students, MEISEK Donn, Marc Planes Institute for Psychological Research, Munich, and CRISTINA MEINECKE, University of Munich. As it is often assumed that ritalin and/or methylphenidate have a negative effect on visual attention and visual attention is a measure of the underlying attention processes, however, both tasks may rely on different cognitive mechanisms. This is the reason why this study aims to understand the effects of different attention tasks and attentional processes on the study using the same attentional assessment. The aim of this study is to show that attention tasks can be grouped into two classes: an attentional suppression and a perception of visual attention tasks. The attentional suppression class includes tasks in which the subject has to ignore irrelevant stimuli and the perception of visual attention tasks includes tasks in which the subject has to pay attention to relevant stimuli.

(3) A Closer Look at the Herbing’s Spot-Shading Demonstration, FREDERICK BONATO, JOHN CATELLA, and MELISSA MANENTI, State Peter’s College—Hiring proposed that when the presence of a shadow makes the object appear as a darker shade of gray paper. Others claimed that this effect can be observed with a white line. Using a matching task, our lab has found (1) black and white lines produce different lightness values for the shadow, and in (2) black line does not make the shadow lighter, the manipulation is effective.

(4) The Nasal Substrate and Code for Brightness and Color Saturation. CHARLES G. WU, Testing lab — Based on an analysis of bicolor rivalry and some relevant neuroanatomical and neurophysiological facts about the primary visual cortex, we suggest that Layer 4C in the primary visual cortex (area V1) is the neural substrate where both visual and color processing is performed. We further propose that the nose code directly correlated with brightness and color sensation is not the case of frigures of certain colors but the absence of incidence of firing synchrony.

(5) Lower Separability and Conjunction Effects in Shape Visual Search, MARTIN ARQUIN and DANIEL SAUMER, Université de Mons—Epiphanes whose shapes varied on elongation and global curvature varied in visual target. The results show that the visual target size increased with single-figure targets, with higher search rates for a linear decision boundary compared to the target from distraction. With conjunction targets, serial search rates were higher than with linearly separable single-figure targets but varied markedly according to the particular feature values of the target. Results suggest that visual encoding varies with shape into different dimensions.

(6) Orientation Discrimination and Kinetic Memory, JAY FRIEDENBERG and ANEL OUSEIS, Manhattan College—Subjects viewed a brief display containing oriented lines followed immediately by a dot cue. The task was to judge the orientation of the target line at the cue location. The orientation of non-target distractors was varied. Speed of responding and error rates both decreased, the greater the number of distractor lines sharing the target line’s orientation. Also, the cost of processing in terms of excitatory and inhibitory connections between simple cells is area VI of visual cortex.

- PRECEPTION -

(7) Cross-cultural Organization of Mentally Represented Prehension, SCOTT H. JOHNSON, Georgia College—Graphically rendered hands were presented to either the left or right visual fields in a variety of different orientations, and times to determine whether an underhand or overhead grip would be preferred were measured. Although no overt reaching movements were performed, a significant advantage in grip selection time was found when judgments were based on the contralateral hand. These findings indicate that a representative mechanism within each cerebral hemisphere participate in representing actions of the contralateral hand.

(8) Reduction in Motor Potentials With Parietal-Involved, JOS. LACUMER, University of Arizona, and FRANK H. DURGIN, James Madison College—Last year we demonstrated that motorcycling is reduced when observers respond quickly, suggesting that breathing unperceived communications of the target. Here we demonstrate that under some circumstances when no feedback is given. This manipulation better reflects perceptions of the target since that observers learn to interpret the visual information in order to have a more accurate reconstruction of the task. Further, contrary to previous interpretations which have observed changing strategies as DOA changes, the findings remain even when we used a constrained range of DOA.

DISTINCTIVE REFERENCE FRAMES ASSIGNED TO EACH ITEM IN THE SCENE IN PARADISE, JULIAN S. JOSEPH, and OTTO H. R. JUSSIN, University of Nevada, Reno—Is a circular area of organized items, the orientation of the items correlates with their location in the area and produces a constant angle with the circle's y-axis. Parallel search for an item breaking this "concentric" condition is not reliable. However, we observed in the "non-concentric" condition having orientation gradients of equal magnitude but the opposite (non-parallel) angle with the target orientation. Orientation is measured in a distinct reference frame assigned to each item.

FACTORS THAT INFLUENCE INDIVIDUAL'S PERCEPTIONS OF WISDOM: A Developmental Study, ALICIA H. FARRELL, George Meas University, and DOUGLAS W. ROBERTS, College of Medicine (presented by Douglas A. Hershey).—Developmental and sex differences in individual's perceptions of wisdom were explored. Men and women (N = 259) aged 17-87 rated their level of wisdom of a target in...