



International Society on Infant Studies

Conference program

**11h Biennial International Conference on Infant Studies
Sheraton Colony Square Hotel
Atlanta, Georgia, April 2-5, 1998**

John Worden
1004

**11th Biennial
INTERNATIONAL CONFERENCE
ON INFANT STUDIES**

Sponsored by the

International Society on Infant Studies

Esther Thelen, President

April 2-5, 1998
Atlanta, Georgia

Sheraton Colony Square Hotel

Conference Chairs: Lauren B. Adamson & Roger Bakeman

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Prelude and Acknowledgements

Herein is the program for the 11th Biennial International Conference on Infant Studies. We present it to you with the hope that you will find the meeting it describes intellectually vital and creative. There is ample reason for optimism. Over 1300 scholars from 25 countries have contributed a grand total of 1 presidential address, 1 presidential policy symposium, 2 keynote addresses, 3 debates, 3 invited addresses, 12 Sunday breakfast discussions, 53 symposia and discussions, and 525 poster presentations. Additionally, there is an array of receptions and coffees and a springtime garden party. Of course, numbers and lists await interpretation. We sincerely hope that you enjoy participating in the proceedings.

When we agreed to host the conference in Atlanta, we decided to break with the tradition of separating program and local arrangements. Now that the conference has developed the differentiated and hierarchically integrated form of an academic meeting, we encounter an unanticipated consequence of its global organization: we find ourselves in the most fortunate position of being deeply grateful to many, many people. Almost everyone with whom we have worked in the past two years has contributed to the conference, and several people have worried with us about nearly every of its details.

We want to single out the Developmental Lab team at Georgia State University for an especially loud note of gratitude. In particular, we thank the conferences' two executive coordinators, Lee (and baby Will) Hunter, who launched us in the right direction, and Phyllis Holditch, who is guiding us skillfully toward the meeting; the lab's research coordinator, Deborah Deckner, who has cheerfully added countless ICIS hours to her busy schedule; its doctoral students, Yana Markov, Duncan McArthur, and Connie Russell, who have helped to organize the program and the conference volunteers; and its freshmen assistants, M. Janelle Cambron and Cheryl Williams, who have plunged right into the details of our discipline.

In addition, we heartily thank our local colleagues, Natacha Akshoomoff, Josephine Brown, Marsha Clarkson, Frank Haist, and Mary Morris, for their willingness to help us with the details, and Daryl Nenstiel for his careful proofreading. We also want to express our gratitude to several administrators and staff members at the university. Ahmed Abdelal, Dean of the College of Arts and Sciences, and Robin Morris, Chair of the Department of Psychology, enthusiastically endorsed the conference and provided us with critical resources. Mac Bibb, the College's administrative director, and Janice Irwin, its personnel director, patiently helped us figure out how to get things done. The front office staffs of the Department of Psychology and the Dean's office braved mountains of mail and faxes.

Various ISIS members helped plan the meetings. We are especially indebted to Steven Reznick and Lewis Lipsitt, chairs of ICIS 1996, who in notes and voice answered countless questions. We also received wise council from the International Society of Infant Studies Program Committee (Esther Thelen, ISIS president; Roberta Golinkoff, treasurer; Marian Sigman, secretary; Rachel Clifton, president-elect; Lewis Lipsitt and Steven Reznick of ICIS 1996; and George Butterworth and Gavin Bremner of ICIS 2000). Finally, we gratefully acknowledge the creative organizational talents of Roberta Golinkoff who developed the debates, Marsha Clarkson, who invited speakers, David Lewkowicz who developed the ICIS web page, and the 10 chairs of review panels and 93 panel members who shaped the submitted program.

Welcome to ICIS 98!

Lauren B. Adamson and Roger Bakeman

1998 ICIS Review Panels

1. Motor and Sensorimotor Behavior

Chair: Claes von Hofsten

Reviewers:

Janette Benson, Neil Berthier,
Henriette Bloch, Paul Boudreau,
Philippe Rochat, Geert Savelsbergh,
Esther Thelen

2. Biological Processes

Chair: John E. Richards

Reviewers:

Marie T. Balaban, Martha Ann Bell,
W. Keith Berg, Mark Johnson, Robert
Lickliter, Charles A. Nelson, Steven S.
Robertson

3. Perception and Attention

Chair: Sandra E. Trehub

Reviewers:

Catherine Best, John Colombo, Robin
L. Cooper, James L. Dannemiller, Terri
Lewis, Daphne Maurer, E. Glenn
Schellenberg, Mark Schmuckler,
Laurel J. Trainor

4. Communication and Language

Chair: Michael Tomasello

Reviewers:

Nameera Akhtar, Dare Baldwin,
Patricia Brooks, Nancy Budwig,
Soonja Choi, Gina Conti-Ramsden,
Phil Dunham, Ann Fernald, Kathy
Hirsh-Pasek, Erika Hoff-Ginsburg,
Katherine Nelson, Linda Smith,
Catherine Snow

5. Cognition, Memory, and Learning

Chair: Gavin Bremner

Reviewers:

Mike Anderson, Lorraine Bahrack,
George Butterworth, Rachel Clifton,
Douglas Frye, Harlene Hayne, Nora
Newcombe, Lisa Oakes, Steve
Reznick, Francesca Simion, Colwyn
Trevathan, Arlene Walker-Andrews,
Teresa Wilcox

6. Social Development

Chair: Carol O. Eckerman

Reviewers:

Celia Brownell, Jay Belsky, Martha
Cox, Alan Fogel, Cynthia Garcia-Coll,
Carolee Howes, Russell Isabella,
Susan Jones, Hildy Ross, Cynthia
Stifter

7. Emotional Development

Chair: Kim Bard

Reviewers:

Tiffany Field, Nathan Fox, Daniel
Messinger, Vasudevi Reddy, Mary
Rothbart, Ross Thompson, Tedra
Walden

8. High Risk and Pediatric Issues

Chair: Ronald G. Barr

Reviewers:

Susan Berger, Megan Gunnar, Susan
Goldberg, Edward Goldson, Fran
Porter, Michael Lewis, Betsy Lozoff,
Linda Mayes, Steve Porges, Sandy
Zeskind

9. Psychopathology & Developmental Delay

Chair: Susan H. Landry

Reviewers:

Marjorie Beeghley, Robert Emde,
Claire D. Coles, Susan Rose, Edward
Tronick, Tom Whitman, Charles
Zeanah

10. Early Environments and Social Policy

Chair: Craig Ramey

Reviewers:

Donna Bryant, Frances Campbell,
Patrick Casey, Keith Crnic, Michael
Guralnick, Penny Hauser, Barbara Jo
Howard, Arthur J. Reynolds, Donald
Routh, Donna Spiker

11. Other

Lauren B. Adamson, Roger Bakeman,
Marsha G. Clarkson

Hotels & Public Transportation

HEADQUARTERS HOTEL

Sheraton Colony Square

188 14th Street
Atlanta, GA 30361

404-892-6000
800-422-7895 (outside GA)

\$106 single/double
\$126 triple
\$146 quad

Just east of Peachtree on 14th,
1½ blocks (uphill) from the
Arts Center MARTA station.

OTHER PARTICIPATING HOTELS

Atlanta Four Seasons Hotel

75 14th Street
Atlanta, GA 30361

404-888-8686
800-332-3442

\$125 single/double,
Thurs.-Sun., April 2-5;
\$149 for Wed., April 1

About a block west of the Sheraton,
1 block from the
Arts Center MARTA station.

Marriott Suites Midtown

35 14th Street
Atlanta, GA 30361

404-888-3664
800-228-9290

\$109 single/double

About 1½ blocks west of the
Sheraton, 1 block from the
Arts Center MARTA station.

Fairfield Inn by Marriott

1470 Spring Street
Atlanta, GA 30361

404-872-5821

\$64 single/double

About 6-7 blocks from the
Sheraton, 4 blocks from the
Arts Center MARTA station;
ask about shuttle service.

Reservations

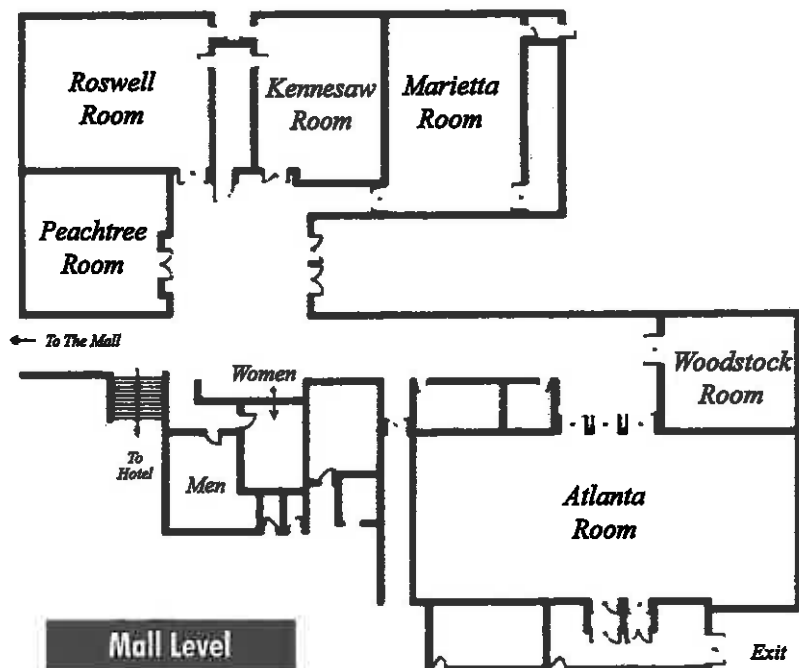
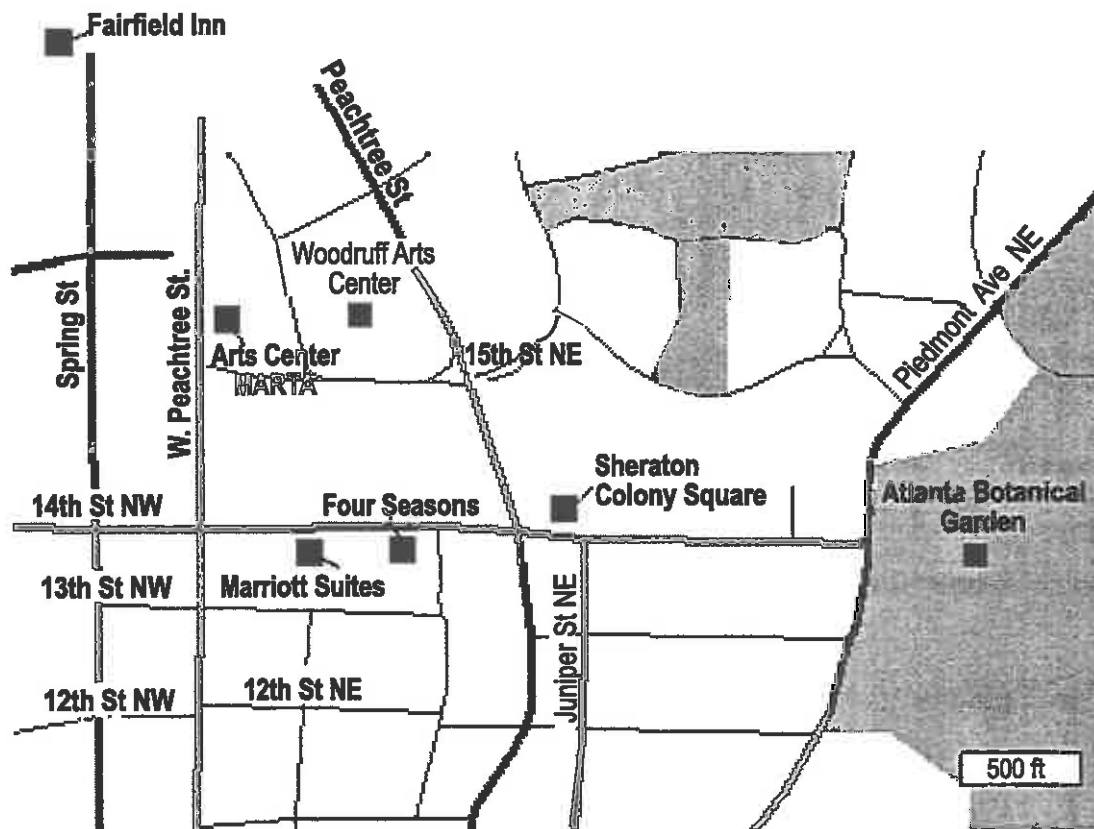
To make reservations, contact the hotel by phone or mail and identify yourself as an ICIS PARTICIPANT. Provide a credit card number to guarantee your reservation. Reservations should be made before March 11, 1998. The hotels cannot guarantee our rooms or these rates beyond that date. Please check with the hotels for information on their cancellation policies. Room rates do not include a 14% tax.

These hotels are located in Midtown, between Downtown and Buckhead, and are located on a triangle defined by Spring, Peachtree, and 14th Streets (see local map). The Arts Center Station is in the middle of this triangle, as is the High Museum of Art. Olmstead's Piedmont Park, which contains the Atlanta Botanical Garden, is a few blocks away. Colony Square, which contains the Sheraton, has shops, restaurants, and a food court. From the airport take a taxi (\$18 flat rate) or any MARTA train; all trains from the Airport (end of the North-South Line) go to the Arts Center Station (22 min, \$1.50).

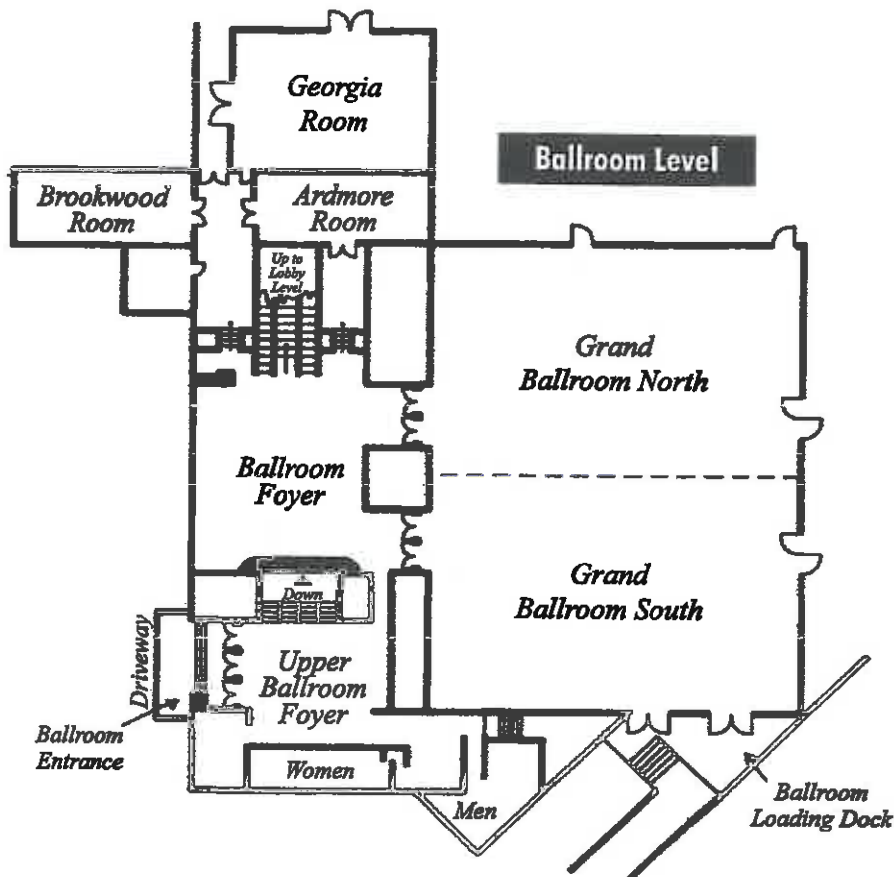
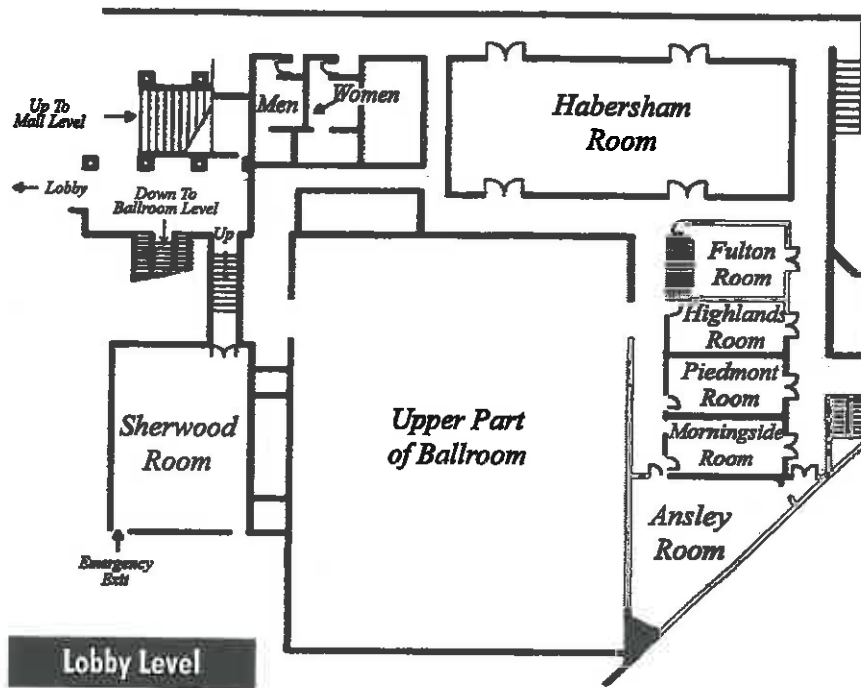
Public Transportation

The Metropolitan Atlanta Rapid Transit Authority (MARTA) comprises bus routes and a rail system. The rail system is a cross: The North-South line and the East-West line cross at Five points, which is the historic center of Atlanta and is where Underground Atlanta (a collection of shops, stores, etc.) is located. The terminus of the South line is at the Airport (S7). The Arts Center Station (N5), near the hotels, is the fifth station north of Five Points. The Martin Luther King Center is near the second station on the East line (E2), and Atlanta's largest shopping center, Lenox Square, is NE7 on the Northeast line (the North Line splits at N6 into the Dunwoody or North line and the Doraville or Northeast line).

Local Area Map and Hotel Mall Level



Hotel Lobby and Ballroom Level



Thursday and Friday Schedule

THURSDAY

Ballroom Level			Lobby Level			Mall Level		
Ballroom North	Georgia	Ballroom South	Habersham	Sherwood	Analey	Atlanta	Marietta	Roswell
Posters	Posters		Discussion Sagi	Symposium Flom	Symposium Savelsbergh	Symposium Nozyce	Symposium Maestriperi	Symposium Gewirtz
Th07-Th11	Th12-Th14		Th01	Th03	Th04	Th02	Th05	Th06
Posters	Posters	Debate Campos, Izard, et al.	Symposium Fox	Symposium Pantoja, Nelson-Goens	Symposium St James- Roberts, Stifter	Symposium Simon	Symposium Quinn	
Th21-25	Th26-Th28	Th15	Th16	Th18	Th19	Th17	Th20	
4:30		Keynote J. S. Bruner						
6:00- 9:00		Opening Reception Crown Room						

FRIDAY

Ballroom Level			Lobby Level			Mall Level		
Ballroom North	Georgia	Ballroom South	Habersham	Sherwood	Analey	Atlanta	Marietta	Roswell
Posters	Posters	Invited Talk T. M. Field	Discussion Boller	Symposium Munakata, Aguiar	Symposium Normand	Symposium Hespos	Symposium Russell, Leavens	Discussion Roth
Fr08-Fr12	Fr13-Fr15	Fr01	Fr02	Fr05	Fr06	Fr04	Fr07	Fr03
Posters	Posters	Debate Golinkoff, Tomasello, et al.	Discussion Campos	Symposium Eiden	Symposium Muir	Symposium Bell	Symposium Glover	Symposium Ungerer
Fr23-Fr28	Fr29-Fr31	Fr16	Fr17	Fr19	Fr20	Fr18	Fr21	Fr22
Posters	Posters	Invited Talk J. Mandler	Symposium Needham	Discussion Sostek NIMH	Discussion Lecanuet	Symposium Mundy	Symposium Nicoladis	
Fr38-Fr42	Fr43-Fr45	Fr32	Fr35	Fr33	Fr34	Fr36	Fr37	
		Discussion Thelen	Discussion Worobey Journal Editors	Symposium Siegler	Symposium Volling	Symposium Fonagy	Symposium Morris	Symposium Maldonado- Duran
		Fr46	Fr47	Fr49	Fr50	Fr48	Fr51	Fr52
		Keynote S. J. Gould						
6:30- 10:00		Garden Party Atlanta Botanical Garden						

Saturday and Sunday Schedule

SATURDAY

Ballroom Level		Ballroom South		Lobby Level			Mall Level	
Ballroom North	Georgia	Invited Talk	Habersham	Sherwood	Analey	Atlanta	Marietta	Roswell
8:30		E. Blass	Symposium Biringen	Symposium Hayes	Symposium Gewirtz	Symposium Adamson- Macedo	Symposium Diener, Spinrad	Symposium Coles
9:00	Posters	Sa01	Sa02	Sa04	Sa05	Sa03	Sa06	Sa07
9:30								
10:00								
10:30	Sa08-Sa12	Debate	Symposium Arendt	Symposium Schmidt	Symposium Miles	Symposium Walker-Andrews	Symposium Plunkett	Symposium Brownell
11:00	Posters	Baillargeon, Smith	Sa16	Sa18	Sa19	Sa17	Sa20	Sa21
11:30								
12:00								
12:30	Sa22-Sa27	Symposium Rothbart	Discussion Friedman NIH	Symposium Echols	Symposium Johnson	Symposium Rochat	Symposium Goldfield	
1:00	Posters							
1:30								
2:00								
2:30	Sa36-Sa41	Sa31	Sa30	Sa33	Sa34	Sa32	Sa35	
3:00		Awards & ISIS Meeting Presidential Address						
4:30								
6:00- 8:00								
		Presidential Reception Upper Lobby						

SUNDAY

Ballroom Level		Ballroom South		Lobby Level			Mall Level	
Ballroom North	Georgia	Breakfast Discussions	Habersham	Sherwood	Analey	Atlanta	Marietta	Roswell
8:30								
9:00								
9:30								
10:00	Posters	Su01	Symposium Werker	Symposium Corbetta	Symposium Maldonado- Durán	Symposium Schölmerich, Lamb	Symposium Barratt	
10:30								
11:00								
11:30	Su07-Su11	Su12-Su15	Su02	Su04	Su05	Su03	Su06	

Exhibitors

	<u>booth</u>		<u>booth</u>
Ablex Publishing Corporation P.O. Box 5297 Greenwich, CT06831 (203) 661-7602 phone (203) 661-0792 FAX	1	Oxford University Press 198 Madison Ave. New York, NY 10016 (212) 726-6063 phone (212) 726-6441 FAX	8
Academia Book Exhibits 3925 Rust Hill Pl. Fairfax, VA 22030 (703) 716-5537 phone (703) 691-2422 FAX	2	Plenum Publishing Corporation 233 Spring Street New York, NY 10013 (212) 620-8459 phone (212) 647-1898 FAX	12 combined
Blackwell Publishers 350 Main St. Malden, MA 02148 (781) 388-0454 phone (781) 388-0554 FAX	3	Sage Publications 2455 Teller Road Thousand Oaks, CA 91320 (805) 499-0721 phone (805) 499-0871 FAX	12 combined
Brookes Publishing Company P.O. Box 10624 Baltimore, MD 21285-0624 (410) 337-9580 phone (410) 337-8539 FAX	4	Taylor & Francis. 1900 Frost Road, Suite 101 Bristol, PA 19007-1598 (215) 785-5800 phone (215) 785-5515 FAX	9
Carfax Publishing Limited P.O. Box 25, Abingdon, Oxfordshire, OX14 3UE UK +44 1235 401000 phone +44 1235 401550 FAX	12 combined	The MIT Press 5 Cambridge Center Cambridge, MA 02142 (617) 258-5764 phone (617) 253-1709 FAX	10
John Wiley & Sons 605 3rd Avenue New York, NY 10158-0012 (212) 850-6758 phone (212) 850 6088 FAX	12 combined	Triangle Research Collaborative P.O. Box 12167 RTP, NC 27709-2107 (919) 549-9093 phone (919) 549-0493 FAX	11
Lawrence Erlbaum Associates 10 Industrial Ave. Mahwah, NJ 07430 (201) 236-9500 phone (201)236-0072 FAX	5 & 6	Zero to Three 734 15th Street, NW, Suite 1000 Washington, DC 20005-1013 (202) 638-1144 phone (202) 638-0851 FAX	12 combined
Noldus Information Technology 6 Pidgeon Hill Drive, Suite 180 Sterling, VA 20165 (703) 404-5506 phone (703) 404-5507 FAX	7	All booths (1-12) are located in Ballroom North. The exhibit area is open 12:30-4:30 Thursday, 9-4:30 Friday, 9-3 Saturday, and 9-12 Sunday.	

Preconferences

Thursday, April 2

The Annual Touch Research Symposium

8:00 a.m.-12:00 noon

Atlanta Room (Mall Level)

The presenters include researchers from Israel, England, and France who are conducting studies on normal and high-risk infants. Please contact Laura Billings for the program at 305-243-6781.

Developmental Neuropsychology Group

8:30 a.m.-12:00 noon

Roswell Room (Mall Level)

For more information contact Dennis Molfese at 618-453-3521 or e-mail dmolfese@som.siu.edu.

Baby FACS

9:00 a.m.-12:00 p.m.

Kennesaw Room (Mall Level)

Harriet Oster will present a Baby FACS workshop (Facial Action Coding System for infants and young children). For further information contact Harriet Oster at 212-315-2880 or email osterh@psych.nyu.edu or harriet.oster@nyu.edu.

Noldus

9:00 a.m.-12:30 p.m.

Georgia Tech Continuing Education Training Facility (in the Mall)

Noldus Information Technology presents a Technical Pre-Conference Tutorial. Computer-aided collection and analysis of observational data using The Observer® software. Cost is \$175 for the 3½ hr session; computers provided. For more information and registration contact Melisa Sergent at 888-355-9541, FAX 703-404-5507, or email m.sergent@noldus.com.

General Information

Conference Abstracts

Conference abstracts appear as a special issue of *Infant Behavior and Development*. Copies are available at the Ablex Publishing booth in Ballroom North.

Exhibits

Book publisher and other booths are located in Ballroom North. The exhibit area is open 12:30-4:30 Thursday, 9-4:30 Friday, 9-3 Saturday, and 9-12 Sunday.

Hospitality

Local information is available from student volunteers. Look for the booth in the ballroom foyer.

ISIS and IBAD Events

The ISIS Executive Board meets Thursday, April 2, 9:00-11:30 a.m., in the Marietta Room (Mall Level). A continental breakfast will be served.

The Editorial Board of *Infant Behavior and Development* meets Saturday, 7:30-8:50 a.m. in the Toulouse Room, above the hotel café. A Southern buffet breakfast will be served.

Parking

Overnight parking in the parking garage under Colony Square is \$8.50 per day for hotel guests. Others can park there for \$8.50 for the day if they have a gold sticker, which will be available at the conference registration desk. Otherwise, day parking in the Colony Square garage is \$12.00. Valet parking is available to hotel guests for \$10.00.

Registration

Please pick up your name badge and registration packet, including, if applicable, your ticket(s) to the Friday night Garden Party and Buffet, at the ICIS Registration Desk, Sheraton Colony Square Hotel, ballroom foyer. The registration desk will be open Thursday, April 2, from 10:00 a.m. to 4:30 p.m.; Friday, April 3, from 8:00 a.m. to 4:30 p.m.; and Saturday, April 4, from 8:00 a.m. to 1:00 p.m.

Program Highlights

KEYNOTE ADDRESSES

Thursday, 4:30-6:00 p.m., Keynote Address (Th29), Ballroom South

If not buzzing confusion, then what?

Speaker: *Jerome S. Bruner*, Chair: *Sue Savage-Rumbaugh*

Friday, 4:30-6:00 p.m., Keynote Address (Fr53), Ballroom South

Ontogeny and phylogeny revisited, or why the child is not the evolutionary father to the man

Speaker: *Stephen Jay Gould*, Chairs: *Esther Thelen*, *Roger Bakeman*

Johnson & Johnson
CONSUMER COMPANIES, INC.

We are pleased to acknowledge the generous support of Johnson & Johnson for these addresses.

INVITED ADDRESSES and DEBATES

Thursday, 2:30-4:20 p.m., Debate (Th15), Ballroom South

Emotions: Intrapsychic phenomena or social signals?

Participants: *Joseph J. Campos vs. Carroll Izard & Brian Ackerman*, Moderator: *Lois Bloom*

Friday, 8:30-10:20 a.m., Invited Address (Fr01), Ballroom South

Touch and touch therapies

Speaker: *Tiffany M. Field*, Chair: *Lewis A. Leavitt*

Friday, 10:30-12:20 a.m., Debate (Fr16), Ballroom South

Lexical principles meet social-pragmatic factors: Is a marriage possible?

Participants: *Roberta M. Golinkoff & Kathryn Hirsh-Pasek vs. Michael Tomasello & Nameera Akhtar*,
Moderator: *Patricia J. Bauer*

Friday, 12:30-2:20 p.m., Invited Address (Fr32), Ballroom South

The once and future infant

Speaker: *Jean Mandler*, Chair: *Rochel Gelman*

Saturday, 8:30-10:20 a.m., Invited Address (Sa01), Ballroom South

Mothers and infants: Suckling, opioids, analgesia, and the origins of mother love

Speaker: *Elliott Blass*, Chair: *Rachel K. Clifton*

Saturday, 10:30-12:20 a.m., Debate (Sa15), Ballroom South

Do infants possess innate knowledge structures?

Participants: *Renée Baillargeon vs. Linda B. Smith*, Moderator: *Roberta M. Golinkoff*

PRESIDENTIAL SYMPOSIUM

Friday, 2:30-4:20 p.m., Presidential policy symposium (Fr46), Ballroom South

Infant research, public policy, and the media

Participants: *Mark I. Applebaum*, *Sandra Blakeslee*, *Robert N. Emde*, *Megan R. Gunnar*, *Deborah Phillips*,
Esther Thelen, *Barry Zuckerman*, Chair: *Esther Thelen*

BUSINESS MEETING and PRESIDENTIAL ADDRESS

Saturday, 3:00-4:20 p.m., **ISIS Awards and Business Meeting** (Sa44), Ballroom South, including the 1998 ISIS Dissertation Award and Young Investigator's Award as well as special recognition to Carolyn Rovee-Collier for her contributions as editor of *Infant Behavior and Development*.

Saturday, 4:30-6:00 p.m., Presidential Address (Sa45), Ballroom South

Grounded in the world: Developmental origins of the embodied mind

Speaker: *Esther Thelen*, **Chair:** *Carolyn Rovee-Collier*

SUNDAY BREAKFAST DISCUSSIONS

Sunday, 8:30-9:50 a.m., **Sunday Morning Breakfast Discussions** (Su01), Ballroom South

Hosts: *Ronald G. Barr, Gavin Bremner, Claire D. Coles, Carol O. Eckerman, Peter Hobson, Susan H. Landry & Karen E. Smith, Charles A. Nelson, J. Steven Reznick, Scania de Schoen, Sandra E. Trehub, Claes von Hofsten & Rachel K. Clifton, Tedra A. Walden*. Limited space available. Signup at the ICIS registration desk in the Sheraton Colony Square Hotel.

SOCIAL EVENTS

Thursday, 6:00-9:00 p.m., **Opening Reception**

Crown Room, Sheraton Colony Square Hotel. The Crown Room is on the top floor of the Sheraton Colony Square hotel with views of Atlanta, including Piedmont Park and surrounding areas. A cash bar will be available. *Hors d'oeuvres will be provided, compliments of Johnson & Johnson Consumer Companies, Inc.*

Friday, 6:30-10:00 p.m., **Garden Party and Dinner Buffet**

Atlanta Botanical Garden. Tickets are limited and must be purchased in advance. Buses to and from the garden will be provided, although the athletically inclined may prefer to walk the 5 or so blocks. *We thank Georgia State University for supporting the planning for this event.*

Saturday, 6:00-8:00 p.m., **Presidential Reception**

Upper Lobby, Sheraton Colony Square Hotel. Light snacks will be provided. A cash bar will be available. *We thank Indiana University for their contribution to this event.*

Friday and Saturday mid-morning, **Coffee**

We thank Lawrence Erlbaum Publishers for supporting the Friday Coffee.



Notes

Qual survey

- Jan 98 p. 75-77

ward and street

International Society on Infant Studies

Program

11th Biennial International Conference on Infant Studies
Atlanta, Georgia, April 2-5, 1998

Thursday, April 2

12:30-2:20 p.m.
Habersham

Discussion Session (Th01)

Shedding further light on the NICHD study of early child care: The Israeli case

Chair: *Abraham Sagi*

Participants: *Motti Gini, Tirtsa Joels, Nina Koren-Karie, Abraham Sagi, Yair Ziv*

12:30-2:20 p.m.
Atlanta

Symposium (Th02)

Micro premies: What we know today

Chair: *Molly Nozyce*

Survival of infants with birth weight less than 501 grams, *Charles E. Mercier*

Neurofunctional development of the micro premie, *Bernard Z. Karmel, Judith M. Gardner, Anantham Harin, Anthony Barone*

Pain responses of <1000 gram newborn infants and their relationship to temperament at six months, *Fran L. Porter, Joan Luby, Cynthia Wolf, Rhonda Ferrett, Justine A. Wayne, J. Philip Miller*

The neurodevelopmental course of micro premies during the first two years, *Debra Fagan, Molly Nozyce, Mara J. Hoberman, Lawrence M. Noble, Ivan L. Hand*

Discussant: *Cecilia McCarton*

12:30-2:20 p.m.
Sherwood

Symposium (Th03)

Gestures, communication and early language

Chair: *Ross A. Flom*

Perceiving eye-to-eye: Caregiver gestures cultivate the lexical development of Latino and Euro-American infants, *Patricia R. Zukow-Goldring*

An ecological approach to joint attention and early language, *Ross A. Flom, Rachel C. Burmeister, Anne D. Pick*

Symbolic gestures in the service of infant-initiated "joint attention", *Linda Acredolo, Susan Goodwyn*

The gestural communication of apes and human infants, *Michael Tomasello*

Discussant: *Susan Goldin-Meadow*

12:30-2:20 p.m.

Ansley

Symposium (Th04)

Perception-action coupling in infancy: What is the information used?

Chair: *Geert J. P. Savelsbergh*

What information drives smooth pursuit in young infants, *Claes von Hofsten*

Information for infant catching, *Geert J. P. Savelsbergh, J. van der Kamp*

Strategies in the visual control of posture by infants, *James L. Rose, Bennett I. Bertenthal*

Perception-action coupling and the development of walking, *Jane E. Clark, J. A. Barela, F. Jeka*

Discussant: *Jeffrey J. Lockman*

12:30-2:20 p.m.

Marietta

Symposium (Th05)

Biological and maternal influences on infant development in primates

Chair: *Dario Maestripieri*

Sexual differentiation in Rhesus monkey infants: The role of prenatal androgen exposure and postnatal experience, *Kim Wallen*

The ontogeny of pigtail monkey (*Macaca nemestrina*) recruitment screams, *Harold Gouzoules, Sally Gouzoules*

Determinants of infant abuse and neglect in monkeys, *Dario Maestripieri*

Maternal influences on the development of hand preference in infant chimpanzees, *William D. Hopkins*

Discussant: *Kelly A. Carroll*

12:30-2:20 p.m.

Roswell

Symposium (Th06)

The nature of reinforcement in infant learning

Chair: *Jacob L. Gewirtz*

Theory building, hypothesis testing, and the nature of reinforcement in newborn learning, *T. G. R. Bower*

Assessing social and nonsocial reinforcers: Contributions of contemporary conditioning studies with infants, *Martha Peláez-Nogueras*

The efficacy of contingent attention and of other social stimuli as reinforcers of diverse infant responses in operant learning, *Jacob L. Gewirtz*

Discussant: *Carolyn Rovee-Collier*

12:30-2:20 p.m.

Ballroom North

Poster Session

Reactions to a Still Face (Th07)

B01 Still-face phenomenon as social cognition by 7 and 10-month-olds, *Tricia Striano, Philippe Rochat*

B02 Infant affective responses in the still-face at 6 months predict maternal ratings of 18 month behaviors, *Ginger Moore, Jeffrey F. Cohn, Susan B. Campbell*

B03 Infant response to parental gaze direction during face-to-face/ still-face paradigms, *Christine E. Fullmer, Daniel S. Messinger*

- B04 **Face-to-face interaction between preterm infants and mothers: Use of the still-face procedure,** *Regina M. Cusson, Tao Yin*
- B05 **Determinants of the still-face phenomenon by 2- to 6-month-olds,** *Lynda Reyes, Tricia Striano, Philippe Rochat*

The Emerging Self (Th08)

- B06 **Exploration of self-agency by newborns and 2-month-olds,** *Tricia Striano, Philippe Rochat*
- B07 **Early grammatical development and the emergence of self,** *Jessica A. Seiden, Moshe Anisfeld*
- B08 **Intermodal self-perception: Infants match their voices with their faces,** *Natasha del Pino, Lakshmi J. Gogate, Lorraine E. Bahrick*
- B09 **The onset of self-recognition and the emergence of self-awareness,** *Douglas S. Ramsay, Michael Lewis*

Gender Differences (Th09)

- B11 **Gender differences in neonatal temperament,** *Judith J. Lillie, Moshe Anisfeld*
- B12 **The relationship between testosterone and visual attention in infancy: Gender differences in novelty discrimination,** *David P. Laplante, Daniel Pérusse, Richard E. Tremblay*
- B13 **Gender and emotion in infancy: Direct observations and parental perceptions,** *Rosemarie DiBiase, Courtney Vareschi, Jennifer Brunell*
- B14 **"Boys don't make breakfast!": Toddler's differential memory for same-sex events,** *Maya G. Sen*
- B16 **Gender-specific implications of shyness for development,** *Heather A. Henderson, Genevieve E. Erb, Nathan A. Fox*
- B17 **Metaphorical gender knowledge in the second year of life,** *Julie A. Eichstedt, Lisa A. Serbin, Diane Poulin-Dubois*
- B18 **Paternal sex-typing of newborns: Standardization of a rating scale,** *Rebecca T. Leeb, F. Gillian Rejskind*
- B19 **Gender differences in synchrony, matching, and rate of repair in mother-infant interactions,** *M. Katherine Weinberg, Edward Z. Tronick, Jeffrey F. Cohn, Karen L. Olson*

Maternal Depression (Th10)

- B20 **Microanalysis of mother-infant gaze and infant self-comforting behavior in dyads reporting high, mid-range, and low maternal depressive symptoms,** *Lisa D. Marquette, Elizabeth Helbraun, Beatrice Beebe, Joseph Jaffe*
- B22 **Conflict and depression predict maternal sensitivity to infant cries,** *Wilberta L. Donovan, Lewis A. Leavitt, Reghan O. Walsh*
- B23 **Severity and chronicity of maternal depressive symptoms during the first postpartum year,** *Marjorie M. Beeghly, M. Katherine Weinberg, Karen L. Olson, Henrietta Kernan, Edward Z. Tronick*
- B24 **Maternal depression and anxiety: The relation between maternal self-reports of functioning and mother-infant interaction,** *M. Katherine Weinberg, Edward Z. Tronick, Lee S. Cohen, Karen L. Olson*
- B25 **Depressive symptoms and parenting in foster, kin, and biological mothers caring for infants sero-positive for HIV,** *Margaret S. Miles, Diane H. Holditch-Davis*
- B26 **Infant-directed speech, maternal depression, and infant learning,** *Ahna L. Hoff, Peter Kaplan, Patricia J. Zarlengo-Strouse, Jo-Anne Bachorowski*
- B27 **Maternal depression and cognitive and behavioral development over the first 9 years of life,** *Dieter Wolke, Sophie Kuertjens*
- B28 **Postnatal maternal depression and patterns of infant attachment,** *Ouriel Rosenblum, Gisele Danon, P. Mazet*
- B29 **Process underlying cognitive and emotional development in infants of depressed mothers,** *Charlie Stanley, Lynne Murray*
- B30 **The effect of maternal depression in the context of risk in a poor urban sample of mothers and their toddlers,** *Martina B. Albright, Mary C. O'Hearn, Odelia Bawnik, Catherine S. Tamis-LeMonda, Benard P. Dreyer, Alan Mendelsohn*
- B31 **The relationship of maternal post partum depression to child outcomes in preterm and term infants,** *Lynn T. Singer, Marilyn R. Davillier, Suzanne Hawkins, Ann E. Salvator, Adela F. Kuc, Martin Manuel, Lois Klaus, Sarah E. Fulton*

- B32 Depressed mothers' interaction styles influence infants' toy exploration and affect in a teaching situation, *Sybil Hart, Tiffany M. Field, Nancy Aaron Jones, Brenda L. Lundy*
- B33 EEG patterns and inhibition in infants of depressed mothers, *Nancy Aaron Jones, Tiffany M. Field, Marisabel Davalos, Sybil Hart, Brenda L. Lundy*

Cocaine-Exposed Infants (Th11)

- B34 Modeling neonatal head circumference percentile: Results from a prospective study examining effects of prenatal cocaine use, *Cynthia W. Garvan, Fonda Davis Eyler, Marylou Behnke, Mike Conlon, Kathleen Wobie, John Marron*
- B35 Neuropsychological functioning, psychological distress, and maternal infant interaction in cocaine using women, *Sonia Minnes, Lynn T. Singer, Kathleen J. Farkas, Adela F. Kuc, Martin Manuel, Joanne Robinson, Kristen Weigand, Robert Arendt*
- B36 Visual recognition memory and developmental outcomes of cocaine-exposed and non-exposed infants, *Lynn T. Singer, Robert Arendt, Sonia Minnes, Ann E. Salvator, Joanne Robinson, Kristen Weigand*
- B37 "Cocaine-exposed" children: Is the label itself a risk factor?, *Lisa Maag, Fonda Davis Eyler, Nanci Stewart Woods, Marylou Behnke, Bridget Franks, Cynthia W. Garvan, Mike Conlon*
- B38 Temperament and exploration in eight-month-old cocaine-exposed infants, *Marla S. Zucker, Linda L. Lagasse, Rebecca VanVorst, Susan Brunner, Barry M. Lester*
- B39 Posture and fine motor assessment of substance exposed infants at eight months, *Rosemarie Bigsby, Jane Case-Smith, Barry M. Lester*
- B40 Maternal cocaine and maternal sensitivity: 6-month outcome, *Neena Roumell, Diane E. Wille*
- B41 Longitudinal investigation of motor skills in infants and toddlers prenatally exposed to cocaine, *Rebecca R. Fewell, Angelika Hartl Claussen, Keith G. Scott*
- B42 Self-recognition at 18 months as a function of prenatal cocaine exposure, *Margaret I. Bendersky, Michael Lewis*

12:30-2:20 p.m.
Georgia

Poster Session

Learning and Reinforcement (Th12)

- G01 Effects of demonstrations of continuous or partial reinforcement on performance of 6- and 12-month olds, *Catherine G. Weir, Rose Ann King, Cynthia Toland*
- G02 Contingency learning and heart rate changes in well and risk infants, *W. Stuart Millar, Catherine G. Weir*
- G03 Infant learning and generalized expectancies, *Margaret W. Sullivan, Michael Lewis*
- G04 Infant learning, emotion, and memory, *Daniel F. A. Hitchcock, Michael Lewis*
- G05 Delay classical eyeblink conditioning in 4- and 5-month-old infants, *Dragana Ivkovich, Kimberly L. Collins, Norman A. Krasnegor, Mark E. Stanton, Carol O. Eckerman*
- G06 The nature of attention and its reinforcer efficacy for infant behavior, *Hiselgis Perez*
- G07 Three-month-old infants can learn constrained motor solutions elicited by changes in environmental information, *Rosa M. Angulo-Kinzler*
- G08 Early experience and auditory learning: The role of sensory stimulation in bobwhite quail chicks' preferences for maternal cues, *Rebecca F. Columbus, Robert E. Lickliter*

Studying Play (Th13)

- G09 Is there an optimal duration for observation of play?, *Philip Roman Zelazo, Brian R. Rotsztein, Caroline A. Reid, Pal E. Carlin*
- G10 Mother-infant social play related to infant language and play behaviors at 11 and 14 months, *Lisa A. Newland, Lori A. Roggman, Lisa K. Boyce, Gina A. Cook*
- G11 The relationship between choice co-construction and symbolic play in mother-child dyads, *Lisa M. Noll, Carol G. Harding, Stephanie R. Stilson, Lenore R. Weissmann*
- G12 Mothers' and infants' solicitations of imitation during play, *Elise Frank Masur*

Crying: Pacifiers, Parents, and Excess (Th14)

- G13 State organization in excessively crying infants, *Amy L. Salisbury, Melissa Hunsley, Evelyn B. Thoman*
- G14 Temporal patterning and individual differences in excessively crying infants throughout the 24-hour day, *Melissa Hunsley, Amy L. Salisbury, Evelyn B. Thoman*
- G15 Diary indices of pacifier use: Convergence with interview measures, *Nicole Calinoiu, Ronald G. Barr, Liisa Lehtonen, Lea Wertheim, Fabien W. Barr, Simon N. Young*
- G16 Pacifier use in infants with and without colic: Is it really effective?, *Liisa Lehtonen, Ronald G. Barr, Nicole Calinoiu, Lea Wertheim, Fabien W. Barr, Simon N. Young*
- G17 Maternal caregiving style and infant fussing and crying in a Danish community sample: Preliminary findings, *Marissa Alvarez*
- G18 Parental ideas about infant crying: A grounded theory study, *Ann D. Murray*
- G19 Effect of selected soothing techniques on parent-infant interaction and on infant crying, *M. Ruth Elliott, Sandra M. Reilly*
- G20 The differential impact of infant cry and fuss behaviors on parental involvement and perceptions, *Michael A. Bono, Cynthia A. Stifter*
- ✱ G21 Parent concerns about infant regulatory problems: Excessive crying, sleep problems, and feeding difficulties, *Susan C. McDonough, Katherine Rosenblum, Ellen Devoe, Sheila Gahagan, Arnold Sameroff*

2:30-4:20 p.m.
Ballroom South

Debate (Th15)

Emotions: Intrapsychic phenomena or social signals?

Moderator: *Lois Bloom*

Participants: *Joseph J. Campos vs. Carroll Izard & Brian Ackerman*

2:30-4:20 p.m.
Habersham

Symposium (Th16)

Domains of change or continuity: Why is infancy so important?

Chair: *Nathan A. Fox*

→ Attachment and emotion, *Michael Lewis*

Stability and instability of infant temperament, *Nathan A. Fox, Heather A. Henderson*

Change and continuity in neurobiological development, *Charles A. Nelson*

Defining a "radical middle" in the study of cognitive development, *Nora S. Newcombe*

Discussant: *Michael Tomasello*

2:30-4:20 p.m.
Atlanta

Symposium (Th17)

Is infant numerical competence real or in the eye of the beholder?

Chair: *Tony J. Simon*

Further evidence for infants' numerical competence, *Gavin N. Huntley-Fenner, Fei Xu*

Representation of number: How do data bear on the debate?, *Susan Carey*

Arguments against non-numerical accounts of infants' numerical competence, *Karen Wynn*

A fully operationalized, demonstrably sufficient, non-numerical account of infant "numerical competence", *Tony J. Simon*

Discussants: *Rochel Gelman, Annette D. Karmiloff-Smith*

2:30-4:20 p.m.
Sherwood

Symposium (Th18)

Narrative analysis of early developmental processes

Chairs: *Andrea P. F. Pantoja, G. Christina Nelson-Goens*

Narrative analysis and the development of representational thought in toddlers, *Linda L. Sperry, Douglas E. Sperry*

Getting in touch with oneself: Narratives of infant self-reference in the first half year, *Alan Fogel*

The process of construction of narratives in mother-infant communication, *Maria Lyra, Micheline Souza, Pompeia V. Lyra*

Narratives and the development of early emotional life, *Andrea P. F. Pantoja, G. Christina Nelson-Goens*

Discussant: *Andrew Lock*

2:30-4:20 p.m.
Ansley

Symposium (Th19)

Progress in understanding the nature and outcome of persistent infant crying

Chairs: *Ian St James-Roberts, Cynthia A. Stifter*

Perceiving the causes of infant crying, *Gwen E. Gustafson, James A. Green*

What's distinct about infants' colic cries?, *Ian St James-Roberts*

The short and long term consequences of infant excessive crying: A case for differentiating perceptions of "colic" from more objectively-based assessments, *Cynthia A. Stifter*

Excessive crying in early infancy: Challenges and risks for the developing parent-infant relationships, *Mechthild Papoušek, Nikolaus von Hofacker*

Pathways to and from colic: Three complementary hypotheses, *Ronald G. Barr, Liisa Lehtonen*

2:30-4:20 p.m.
Marietta

Symposium (Th20)

Perceptually based approaches to understanding early categorization

Chair: *Paul C. Quinn*

Global before basic perceptual category representations in connectionist networks and 2-month-old infants, *Paul C. Quinn, Mark H. Johnson*

Formation of global versus differentiated categories by infants: Effects of between category contrast and age, *Barbara A. Younger-Rossman, Dru D. Fearing*

A connectionist model of early infant memory and categorization, *Denis Mareschal, Robert M. French, Paul C. Quinn*

Infants' categorization at the superordinate and basic level: The taxonomic fallacy, *David H. Rakison*

Discussant: *Linda B. Smith*

2:30-4:20 p.m.
Ballroom North

Poster Session

Adults' Perception of Infants (Th21)

- B01 Perception of infant expression in women with schizophrenia, *Paula J. Pitterle, Joyce Hopkins, Jennifer S. Schneps*
- B02 Maternal recognition of newborn features, *Aine de Róiste, Gwyneth Bonnet*
- B03 Predictors of maternal perceptions of infant behavior among mothers in poverty, *Hannah W. Moore, Jenifer Goldman-Fraser, Beth Kurtz-Costes*
- B04 Mothers' views about children's play and language activities: Relations to parenting behavior, *Catherine S. Tamis-LeMonda, Mark Spellmann, Jacqueline Shannon*
- B05 Effects of eye size on adults' aesthetic ratings of faces and 5-month-olds' looking times, *Sybil S. Geldart, Daphne Maurer*
- B06 The effects of adoption at infancy versus childhood on teachers' perceptions of children and their mothers, *Sonya Organ Slater, Cynthia L. Crown, W. Michael Nelson III*
- B07 Maternal social cognition and object relations: Connection with perceptions of self and relationships with one's child and family, *Zeynep Biringen, Aaron Matheny, Inge Bretherton*

Attachment Relationships (Th22)

- B08 Attachment to mothers and fathers: Effects on infant-sibling relationships, *Michelle P. Poris, Brenda L. Volling, Carla Herrera*
- B09 Attachment and sleep patterns in the first two years of life, *Abraham Sagi, Emanuel Tirosh, Yair Ziv, Sarit Guttman, Peretz Lavie*
- B10 Mother-infant attachment security, mothers' interactive style, and infants' communicative, symbolic, and social-affective function, *Melanie A. Barwick, Nancy J. Cohen*
- B11 Four-month mother-infant gaze contingencies predict one-year infant attachment, *Limor Kaufman-Balarnuth, Beatrice Beebe, Joseph Jaffe, Stanley Feldstein, Cynthia L. Crown*
- B12 Attachment and maternal responsivity: The context of infant affect and temperament, *Lori A. Roggman, Vonda K. Jump, Lisa K. Boyce, Gina A. Cook*
- B13 Maternal responses to infant emotional expressions relate to infant attachment, *Mirek Lojkasek, Nancy J. Cohen, Diana Durek, Hema Zbogor*
- B14 Interactional origins of attachment: The role of context and frequency of observation in measuring maternal behavior, *Russell A. Isabella*

The Development of Infants with Medical Problems (Th23)

- B15 Mastery motivation and functional abilities of infants and toddlers with myelomeningocele, *Judy D. Morrow, Ruth Humphry, Rebecca E. Edmondson*
- B16 Plasticity in the development of ex-SCBU graduates: The Bavarian longitudinal study, *Dieter Wolke, Renate Meyer, Joerg Schulz*
- B17 Attachment and maternal reaction to child diagnosis among toddlers with birth defects, *Douglas Barnett, Christine M. Butler, John McCaskill, Kelli Hill Hunt, Melissa Kaplan-Estrin*
- B18 The development of lateralized functions in a sample of high-risk infants, *Pamela Schuetze, Stacy MacKenzie, Rina D. Eiden*
- B19 Risk factors and otitis media in children: Results from the Third National Health and Nutrition Survey (NHANES III), *Robert H. MacTurk, Howard J. Hoffman*
- B20 The cognitive development of full-term small-for-gestational-age (SGA) infants at 12 and 18 months of age, *Leslie F. Halpern, Cynthia T. Garcia Coll, Karen Bendersky, Elaine C. Meyer*
- B21 Developmental outcomes in infants who have undergone surgery for their congenital heart defect, *Cheryl L. Mroz, Rabi F. Sulayman, Alex J. Jaivois, Katie Tubeszewski, Jennifer M. Rosinia*
- B22 Behavioral, affective, and attentional responses of developmentally delayed and nondelayed preschoolers to task difficulty, *Cheryl-lynn Rogers, Philip Roman Zelazo, Morton J. Mendelson, Brian R. Rotsztein*

Social cognition (Th24)

- B23 **The perception of social causality in 3- to 9-month-old infants**, *Rachel E. Morgan, Philippe Rochat*
- B24 **Infants' use of emotional expressions to predict adults' actions**, *Heather L. Birks, Andrea S. Heberlein, Anne Fernald*
- B25 **Do one-year-old infants represent human action as guided by perception?**, *Beate Sodian, Claudia Thoermer*
- B26 **6-month-old infants dishabituate to a change in an object's actual position and not to a change in an object's egocentric position**, *Jordy Kaufman, Amy Needham*
- B28 **Two-year-olds' sensitivity to the knowledge of others in interaction with naïve and knowledgeable adults**, *Deanne W. Swan*
- B29 **Two-year-olds' understanding of attentional focus and seeing=knowing**, *Paula Bennett, Diane Poulin-Dubois*
- B30 **Relations between self regulation and social cognition in at-risk preschool children**, *Stephen J. Sheinkopf, Peter C. Mundy, Jessica Markus, Joycelyn Lee*

Learning Words (Th25)

- B31 **Infant gaze direction during a novel labeling task**, *Marygrace E. Yale, Peter C. Mundy*
- B32 **Word learning in the context of referential and salience cues**, *Christopher L. Moore*
- B34 **Lexical acquisition: The role of cross-situational learning**, *Nameera Akhtar, Lisa Montague*
- B35 **Learning words through eavesdropping**, *Nameera Akhtar, Jennifer L. Jipson, Maureen A. Callanan*
- B36 **Breaking the word barrier: How infants learn their first words**, *George Hollich, Kathryn Hirsh-Pasek, Roberta M. Golinkoff, Rebecca Brand, Cindy Hankey, Camille Rocroi, Elizabeth Hennon*
- B37 **Naming and exclaiming: 17-month-olds' sensitivity to the pragmatics of naming contexts**, *Laura L. Namy*
- B38 **Pragmatic contributions to lexical development**, *Pamela R. Rollins, Virginia A. Marchman*
- B41 **Three-year-olds' acquisition of novel adjectives: Support from the basic-level kind**, *Raquel Stote Klibanoff, Sandra R. Waxman*
- B42 **A longitudinal analysis of the role of stress and position in determining first words**, *Lawrence B. Lewis, Carol Antone, Jacqueline S. Johnson*

2:30-4:20 p.m.

Georgia

Poster Session

Book Reading (Th26)

- G01 **Gestures and words in book reading situation: Conventionalization of referents and gesture-word combination**, *Toshiki Murase*
- G02 **Maternal responses to children's labeling in joint picture-book reading situation**, *Toshiki Murase, Aki Mahieu, Tamiko Ogura, Yukie Yamashita, Philip S. Dale*
- G03 **The development of narrative skills: The contributions of toddler and maternal language and symbolic play**, *Carol J. Andreassen, Linda R. Cote, Charles W. Rahn*
- G04 **Question-response structure in parent-toddler book-reading interactions**, *Patricia A. Mills, Cecilia M. Shore, Wallace E. Dixon, Jr., Ling-yi Zhou, James H. Bodle*

Activity Level (Th27)

- G05 **Early behaviors in children later diagnosed with Attention Deficit Hyperactivity Disorder**, *Phyllis S. Ohr, Giovanna Pasquariello*
- G06 **An individual growth curve analysis of activity level from infancy to 6 years**, *Darren W. Campbell, Kimberly J. Saudino, Warren O. Eaton, Nancy A. McKeen*
- G07 **Maternal speech to toddlers as a function of the child's activity level**, *Danuta Bukatko, Joann P. Benigno*
- G08 **Feeding method and motor activity in early infancy**, *John Worobey*

Early Expectations (Th28)

- G09 Predictive head movements in 6-month old infants, *Bert Jonsson, Claes von Hofsten*
G10 Two-month-olds make predictive saccades: Evidence for early frontal lobe function, *Elliott G. Smith, Richard L. Canfield*
G11 Follow your head (and your heart?): Cardiac and motor indices of anticipation in 15-month-old infants in a two-alternative, cued location memory task, *Elizabeth E. Garner, W. Keith Berg*
G12 Stability and prediction of childhood RT and IQ from infancy, *Nancy A. Raitano, Richard L. Canfield, Mandi Burnette, Elliott G. Smith*
G13 Cross-sectional study on the development of reactive and anticipatory saccadic eye-movements, *Tara S. Wass, Joan T. Bihun, Lisa D. Hager, Marshall M. Haith*
G14 Infants' sensitivity to temporal parameters of the Visual Expectation Paradigm, *Tara S. Wass, April A. Lewis, Marshall M. Haith*
G15 Infants form temporal visual expectations based on the average rate of information flow, *Scott A. Adler, Marshall M. Haith*
G16 Infant visual expectations for events' color content, *Scott A. Adler*
G17 Behavioral and cortical measures of infants' visual expectations, *Naomi Wentworth, Marshall M. Haith, Rathe S. Karrer*
G18 Infants predicting location of visual events: Rules or transitional probabilities, *Katarzyna H. Chawarska, J. Steven Reznick*

4:30-6:00 p.m.
Ballroom South

Keynote Address (Th29)

If not buzzing confusion, then what?

Chair: *Sue Savage-Rumbaugh*

Speaker: *Jerome S. Bruner*

6:00-9:00 p.m.
Crown Room

Opening Reception

The Crown Room is on the top floor of the Sheraton Colony Square hotel with views of Atlanta, including Piedmont Park and surrounding areas. A cash bar will be available. *Hors d'oeuvres will be provided, compliments of Johnson & Johnson Consumer Companies, Inc.*

Friday, April 3

8:30-10:20 a.m.
Ballroom South

Invited Address (Fr01)
Touch and touch therapies
Chair: *Lewis A. Leavitt*
Speaker: *Tiffany M. Field*

8:30-10:20 a.m.
Habersham

Discussion Session (Fr02)
Studying the role of fathers in the lives of low-income infants and toddlers

Chair: *Kimberly Boller*

Participants: *Kimberly Boller, Natasha Cabrera, Martha Cox, Hiram E. Fitzgerald, Michael E. Lamb, Martha Moorehouse, Helen Raikes, Lori A. Roggman, Paul Spicer, Jean Ann Summers, Catherine S. Tamis-LeMonda, Melvin N. Wilson*

8:30-10:20 a.m.
Roswell

Discussion Session (Fr03)
Social and ecological validity: Conceptual and methodological issues in infant research

Chair: *Wendy E. Roth*

Participants: *T. G. R. Bower, Jacob L. Gewirtz, Sybil Hart, Wendy E. Roth*

8:30-10:20 a.m.
Atlanta

Symposium (Fr04)
Infants' object manipulations: What do they tell us about infants' object knowledge?

Chair: *Susan J. Hespos*

Infants incorporate their knowledge about support relationships when retrieving objects: On versus against, *Susan J. Hespos*

Using young infants' tendency to reach for object boundaries to explore perception of connectedness: Rectangles, ovals, and faces, *Peter M. Vishton, Sara N. Stulac, Eliza K. Calhoun*

Effects of perceived display composition on infants' actions on objects, *Amy Needham*

Why babies don't reach the way they look, *Neil E. Berthier, Rachel K. Clifton, Bennett I. Bertenthal*

Discussant: *Jeffrey J. Lockman*

8:30-10:20 a.m.
Sherwood

Symposium (Fr05)

Re-searching infant perseveration: Brains, dynamics, problems, and simulations

Chairs: *Yuko Munakata, Andrea Aguiar*

Perseverative errors in action and non-action tasks: Implications for a model of problem solving in infancy, *Andrea Aguiar*

A dynamic theory of perseverative errors: Distinctive targets, *Frederick J. Diedrich, Tonia M. Highlands*

Infant perseveration and implications for cognitive development: A neural network model of the A-not-B task, *Yuko Munakata*

A cognitive neuroscience perspective on children's perseverative errors, *Adele Diamond*

Discussant: *J. Steven Reznick*

8:30-10:20 a.m.
Ansley

Symposium (Fr06)

New insights from twin studies on cognitive and emotional development

Chair: *Claude L. Normand*

Similarities and dissimilarities in the temperament of 5-month-old twins, *Claude L. Normand, Daniel Pérusse, Richard E. Tremblay*

Attention regulation and physiological arousability: Interindividual differences at 5-months, *Anna Pecchinenda, David P. LaPlante, Michel Boivin, Daniel Pérusse*

The growth of mental attentional capacity in infancy: Evaluating the genetic contribution, *Raymond H. Baillargeon, Richard E. Tremblay, Daniel Pérusse*

Infant visual habituation and parental psychopathology, *David P. Laplante, Daniel Pérusse*

Discussants: *Lisabeth F. DiLalla, H. Hill Goldsmith*

8:30-10:20 a.m.
Marietta

Symposium (Fr07)

The use of eye gaze and referential gestures by chimpanzees: The phylogeny of intentional communication

Chairs: *Connie L. Russell, David A. Leavens*

Joint attention in young chimpanzees: Foundations of intentional communication, *Connie L. Russell*

Integration of gesture and gaze orienting behavior throughout the lifespan of laboratory chimpanzees, *David A. Leavens, William D. Hopkins*

Indexical pointing in language-trained chimpanzees: Methodological issues and a comparison of rearing histories, *Mark A. Krause*

Discussants: *Kim A. Bard, George Butterworth*

9:00-10:50 a.m.
Ballroom North

Poster Session

Speech Perception (Fr08)

- B01 **Matching phonetic information in lips and voice by 4-month-old infants**, *Michelle L. Patterson, Janet F. Werker*
- B02 **Young infants' perception of lexical and functional categories**, *Rushen Shi, Janet F. Werker, James L. Morgan*
- B03 **Statistical learning of non-linguistic stimuli by 8-month-olds**, *Elizabeth K. Johnson, Jenny R. Saffran, Richard N. Aslin, Elissa L. Newport*
- B04 **7.5-month-olds' segmentation of three-syllable words from fluent speech**, *Derek M. Houston, Lynn Santelmann, Peter Jusczyk*
- B05 **Six-month-olds' memory for clausal units**, *Thierry Nazzi, Deborah G. Kemler Nelson, Peter Jusczyk, Ann Marie Jusczyk*
- B06 **Infants can recognize words using partial phonetic information**, *Anne Fernald, John P. Pinto, Daniel Swingle, Amy Perfors, Kalee Magnani, Andrew Bradley*
- B07 **What acoustic information supports infant perception of vowels in natural coarticulated syllables?**, *Ocke-Schwen Bohn, Linda Polka*
- B08 **Long term auditory non-word priming in 2.5-year-old children**, *Caroline M. Hunt, Cynthia L. Fisher, Barbara Ann Church*
- B10 **Effects of task difficulty on infants normalization of naturalistic speech**, *C. Nathan Marti*
- B11 **The role of final position in infants' identification of words in speech**, *Marlena A. Creusere, Jane B. Childers, Catharine H. Echols*
- B12 **Stimulus-alternation preference procedure to test infant speech discrimination**, *Catherine T. Best, Cathleen Jones*

Language Comprehension (Fr09)

- B13 **Maternal bimodal communication style matches the infant's level of lexical comprehension**, *Lakshmi J. Gogate, Lorraine E. Bahrick, Jilayne Watson*
- B14 **The effect of a supportive context on 15-month-old word comprehension: A partial knowledge perspective**, *Brenda K. Davidson, Chris W. Robinson, Wendelyn J. Shore, Peg Hull Smith*
- B16 **Infants' responses to named and unnamed familiar objects**, *Ruth Tincoff, Peter Jusczyk*
- B17 **Some child-directed verbs are more equal than others in accounting for 13-month linguistic comprehension**, *Jennifer L. Myers, Wallace E. Dixon, Jr., Peg Hull Smith, Laura Hayden*
- B18 **The interaction of animacy and syntax in sentences comprehension**, *Jane B. Childers*

Attachment in Context (Fr10)

- B19 **The context of attachment security in family child care**, *James G. Elicker, Cheryl A. Fortner-Wood, Illene C. Noppe*
- B20 **Predicting infant-father attachment: Families in context**, *Suzanne A. Courtney, Julia M. Braungart-Rieker, Molly M. Garwood*
- B21 **Stability, concordance, and correlations of attachment security for infants in child care centers**, *Illene C. Noppe, James G. Elicker, Cheryl A. Fortner-Wood*
- B22 **Social support of infants' parents and child care providers: Does it influence attachment security or adult involvement?**, *Cheryl A. Fortner-Wood, James G. Elicker, Illene C. Noppe*
- B23 **The relation between infant attachment quality and social competence at age three: Validation of the California Attachment Procedure**, *Virginia D. Allhusen, K. Alison Clarke-Stewart*
- B24 **Mother-infant and father-infant attachment in dual-earner and single-earner families**, *Benjamin J. Gorvine, Brenda L. Volling*
- B25 **Security of attachment, family-level dynamics, and toddler adaptation**, *James P. McHale, Allison Lauretti, Jean Talbot*
- B26 **Examining teacher-child relationships: Children in foster care compared to children from similar economic backgrounds**, *Holli A. Tonyan, Carollee Howes*

High Risk Infants (Fr11)

- B27 **Reflexes and motor functions in high risk infants at six months**, *Joan E. Beard, Irving J. Goodman, Michael J. Painter*
- B28 **Prediction of reflex and motor functioning at six months from perinatal complications**, *Joan E. Beard, Irving J. Goodman, Michael J. Painter*
- B29 **Behavioral and EEG measures of sleeping and waking in preterm infants**, *Diane H. Holditch-Davis, Mark Scher, Lloyd J. Edwards, Randall Rieger*
- B30 **Theophylline and caffeine alter movement patterning and behavioral state in premature infants**, *Marie J. Hayes, Brian J. Piper, Jamie L. Cronin, Frederick Wirth*
- B31 **Sex differences in asymmetries of high-risk premature infants**, *Mary P. Grattan, Michael N. Nelson, Rosemary C. White-Traut, Guoguang Gu, Susan Latteau*
- B32 **Minor cranial ultrasound abnormalities at birth and their relationship to neurobehavioral outcome: A prospective, longitudinal study of high-risk newborns**, *Marylou Behnke, Fonda Davis Eyler, Cynthia W. Garvan, Kathleen Wobie, Mike Conlon, Nanci Stewart Woods, William Cumming*
- B33 **Thyroid hormone deficiency in pregnancy and early life: Effects on attention, learning, and memory in infancy**, *Giuseppe Mirabella, Nancy J. Lobaugh, Sandra C. Newton, Denice S. Feig, Joanne Rovet*

Fetal Responses (Fr12)

- B35 **Development of synchronous limb activity and motor set organization in the fetal rat**, *Maura H. Stansfield, Scott R. Robinson*
- B36 **Maternal smoking during pregnancy disrupts rhythmic organization of fetal heart rate**, *Philip Sanford Zeskind, Jeannine L. Gingras*
- B37 **A comparison of heart periods obtained by electrocardiogram and ultrasound for application in the 28-34 week old fetus**, *Charlene A. Krueger, Keita Ikeda, Diane H. Holditch-Davis, Stephen R. Quint*
- B38 **The effects of maternal depression on fetal heart rate and fetal heart rate response to vibroacoustic stimulation**, *Lauren Allister, Yvonne Masakowski, Steve Carr, Lynne M. Andreozzi, Barry M. Lester*
- B40 **Differential maturation of responses to airborne sound in high-risk human fetuses**, *Michelle L. Butt, Li-Hui Pang, Barbara S. Kisilevsky*
- B41 **Vibroacoustic elicited fetal heart rate patterns in fetuses of diabetic women**, *Cynthia L. Allen, Barbara S. Kisilevsky*
- B42 **Effect of vibroacoustic stimulation and airborne sound on fetal breathing from 32 weeks to term**, *Li-hui Pang, Fen Xu, Michelle L. Butt, Barbara S. Kisilevsky*

9:00-10:50 a.m.

Georgia

Poster Session

Effects of Prenatal Drug Exposure (Fr13)

- G01 **Responsiveness to the audible and visible components of the human face in high-risk and cocaine exposed infants**, *David Lewkowicz, Judith M. Gardner, Bernard Z. Karmel*
- G02 **Prenatal cocaine exposure, neonatal CNS injury, and pattern complexity: Effects at 4 and 7 months**, *Robert L. Freedland, Bernard Z. Karmel, Judith M. Gardner*
- G03 **Effects of intrauterine cocaine exposure on mastery motivation**, *Peter M. Vietze, Ewa Kozlowski, Bernard Z. Karmel, Judith M. Gardner*
- G04 **Inhibitory control at 34 months of cocaine-exposed neonates**, *Ronny Geva, Judith M. Gardner, Bernard Z. Karmel*
- G05 **Social development of children prenatally drug-exposed**, *Kristi Carter Guest, Rhonda C. Conerly, Fred J. Biasini*
- G06 **Longitudinal cognitive development of children prenatally drug-exposed**, *Rhonda C. Conerly, Kristi Carter Guest, Fred J. Biasini*
- G07 **Physical growth and neurobehavior in at-risk preterm neonates**, *Kimberly Andrews Espy, David J. Francis, Marilyn L. Riese*

- G08 **Rearing environment and attention regulation in prenatally drug exposed infants**, Valerie A. Ahl, Jennifer J. Omdoll

Culture and Ethnicity (Fr14)

- G09 **Play in two cultures: Universality of process, specificity of structure**, Marc H. Bornstein, Oswald Maurice Haynes, Liliana Pascual, Kathleen M. Painter, Celia Galperin
- G10 **Infant's attention and maternal activities: Changes over the first year in three dyadic contexts**, Birgit Leyendecker
- G11 **Modeling the development of Kenyan infants**, Alok Bhargava
- G12 **Infant irritability and maternal responsiveness in two low-income samplings**, Elizabeth B. Owens, Daniel S. Shaw
- G13 **Emotional availability in 3 ethnic groups**, Marcela C. Acevedo, JoAnn Robinson
- G14 **Cross-ethnic equivalence of maternal functioning**, Ayelet Talmi, Marcela C. Acevedo, Lisa M. Pettitt, David L. Olds
- G15 **The socialization of emotion by middle-class Anglo-Saxon mothers**, Marcia Zumbahlen, Angela Koch, Caroline Pyevich
- G16 **Differences in spontaneous affective control among Chinese-American and Caucasian-American preschoolers**, Patricia T. Garrett-Peters

Perceiving Objects (Fr15)

- G17 **Perceiving objects while on the move**, Martha E. Arterberry
- G18 **Infants' perception of solid objects**, Kathryn S. Marks, Jeffrey T. Coldren
- G19 **Mechanisms of development in the perception of object unity**, Denis Mareschal, Scott P. Johnson
- G20 **The role of good form in infants' perception of object unity**, Scott P. Johnson
- G21 **Perceptual completion and object segregation in infancy**, Lincoln G. Craton, Christopher R. Poirier, Cristin A. Heagney

10:30-12:20 a.m.

Ballroom South

Debate (Fr16)

Lexical principles meet social-pragmatic factors: Is a marriage possible?

Moderator: Patricia J. Bauer

Participants: Roberta M. Golinkoff & Kathryn Hirsh-Pasek vs. Michael Tomasello & Nameera Akhtar

10:30-12:20 a.m.

Habersham

Discussion Session (Fr17)

Japanese psychology of socioemotional development: Search for uniquely Japanese roots

Chair: Joseph J. Campos

Participants: Joseph J. Campos, Linda Camras, Kazuo Miyake, Chen Shing-jen, Tatsuo Ujiie

10:30-12:20 a.m.

Atlanta

Symposium (Fr18)

Looking where and looking when: What visual measures can (and cannot) tell us about infant perception and cognition

Chair: Martha Ann Bell

Looking as a measure of perceptual preference in infants, Robin Panneton Cooper

Individual differences in infant looking: Old questions and new directions, *Janet E. Frick*

Do young infants represent occluded objects?, *Richard S. Bogartz, Jeanne L. Shinsky*

A looking version of the A-not-B task: Frontal EEG and infant cognitive functioning, *Martha Ann Bell*

Discussant: *Susan A. Rose*

10:30-12:20 a.m.

Sherwood

Symposium (Fr19)

Fathers, psychopathology, and environmental risk: Implications for infant development

Chair: *Rina D. Eiden*

What dads know about babies: Relations with attitudes, well-being, and social support, *Lori A. Roggman, Lisa K. Boyce, Brad Benson*

Father contributions to infant and family risk, *Ronald Seifer, Susan Dickstein, Arnold Sameroff*

Fathers and sons: Structuring autobiographical memory of alcohol careers during infancy and early childhood, *Hiram E. Fitzgerald, Robert A. Zucker*

Paternal alcoholism: Impact on family functioning and parent-infant interactions, *Rina D. Eiden, Felipa Chavez, Kenneth Leonard*

Discussant: *Marguerite Stevenson Barratt*

10:30-12:20 a.m.

Ansley

Symposium (Fr20)

Perspectives on adult-infant social engagements: Is social contingency really important to young infants?

Chair: *Darwin W. Muir*

Early development of social monitoring, *Philippe Rochat, Tricia Striano*

Social contingency and optimal social structures, *Kyle L. Snow*

Which components of adult stimulation drive young infants' social responses?, *Barbara A. D'Entremont, Sylvia M. J. Hains, Lawrence A. Symons, Darwin W. Muir*

On relationships and relatedness: Wincott's Set Situation, *Peter Hobson*

Discussants: *Darwin W. Muir, Jacqueline Nadel*

10:30-12:20 a.m.

Marietta

Symposium (Fr21)

Fetal and neonatal mother-baby interactions

Chair: *Vivette Glover*

Depressed mothers and their newborns, *Tiffany M. Field*

Links between antenatal maternal anxiety and the fetus, *Vivette Glover, Jeronima Teixeira, Rachel Gitau, Nicholas Fisk*

Non-pharmacological reduction of hypercortisolaemia in preterm infants, *Neena Modi, Vivette Glover*

Disorders of mother-to-infant bonding, *Channi Kumar, Emily Hughes, Maureen Mark*

10:30-12:20 a.m.
Roswell

Symposium (Fr22)

Emotional development: Perspectives on the role of maternal perceptions of emotions and internal working models of attachment

Chair: *Judy A. Ungerer*

Attachment and expectant mothers' responses to infant emotion, *Kirsten Blokland, Susan Goldberg*

Adult attachment and maternal perceptions of toddler temperament and emotion, *Emma K. Adam, Akiko Tanaka, Laurie Brodersen, Megan R. Gunnar*

A longitudinal study of maternal perceptions of emotions and the development of attachment relationships in the first year, *Judy A. Ungerer, Nicky Sygall*

Discussants: *Robert S. Marvin, Charles Zeanah*

11:00-12:50 a.m.
Ballroom North

Poster Session

Long-Term Memory (Fr23)

B01 Young children's use of photographs as reminders, *Joanne L. Agayoff, Judith A. Hudson*

B02 Infants' attentional preferences: Evidence of a long-term recognition memory, *Mary L. Courage, Mark L. Howe, Leanne Fitzgerald*

B03 Infants' long-term memory for arbitrary sight-sound pairings, *Barbara Morrongiello, Naomi Lee*

B04 An examination of child and parent individual differences as predictors of long-term memory in 2-year-olds, *Michelle E. Boyer-Pennington*

B05 Infant long-term retention of a visual discrimination, *Marjorie Carroll, Jeffrey Fagen, Adriana Franco, Jennifer Byrnes*

Parental Reports of Infants' Language (Fr24)

B06 Use of the short form of the Communicative Development Inventory with African American infants and families, *Joanne E. Roberts, Margaret R. Burchinal, Susan Zeisel*

B07 Assessing infant vocabulary development using a British CDI, *Antonia F. Hamilton, Kim Plunkett, Graham Schafer*

B08 Normative data for the short form versions of the MacArthur Communicative Development Inventories, *Larry Fenson, Steve Pethick, Connie Renda, Philip S. Dale, J. Steven Reznick*

B09 Language and gesture in lower income and middle class Spanish-speaking children: Can parental report be used?, *Rosa Patricia Bárcenas, Donna Jackson-Maldonado, Donna J. Thal*

B10 Validity of a parent report instrument of language development for Spanish-speaking toddlers from two social classes, *Donna J. Thal, Donna Jackson-Maldonado, Dora Acosta*

B11 Prediction of language delay at 16 months of age using parent report, *Donna J. Thal, Karen Swaine, Daniel Harrison, Georg Matt*

B12 A parent report measure of language development for three-year-olds, *Philip S. Dale, J. Steven Reznick, Donna J. Thal*

Language Development (Fr25)

B13 Early language development and the emergence of phonemic awareness, *M. Jeffrey Farrar, Lisa Maag*

B14 Determining the basis of abstraction in artificial language acquisition, *Rebecca L. Gomez, LouAnn Gerken*

B15 Pragmatically natural assessment of novel and familiar nouns, *Alison Hauser, Rosa I. Arriaga, Susan Carey*

B16 Effects of practice on the naming errors children produce, *Lisa Gershkoff-Stowe*

- B17 Mothers' labeling of novel and familiar objects during play: Implications for infants' development of lexical constraints, *Elise Frank Masur*
- B18 What does that robot want from me? Young children's abilities to repair contingent queries, *Suzanne N. Ferrier, Philip Dunham*
- B19 Relations between parental conversational intent and toddlers' linguistic style and conversational sophistication, *Sarah B. P. Blackmore, Janet Strayer, Susan A. Graham*
- B20 The transition from affective to linguistic meaning, *Margaret Friend, Lotte Korsholm, Helen Heyming*
- B21 Infant babbling in relation to ambient language, *Daisy Edmondson*
- B22 Gestures, grunts, and other preliminaries in the transition to language, *Lorraine McCune, Ann Greenwood, Wendy Jankowski*
- B23 The interplay of lexical, facial, and vocal affect during early language development, *Julia M. Lacks, Ina C. Uzgiris*

Emotion Regulation (Fr26)

- B24 Talking about emotions during the toddler years and beyond: Mothers' and fathers' coaching of children's emotion understanding, *Regina Kuersten-Hogan, James P. McHale*
- B25 Emotion expression and regulation of pleasure and fear in earlier- and later-talking toddlers, *Lorraine F. Kubicek, Robert N. Emde*
- B26 Parent-child talk about fearful events in the past: Possible links to early emotion regulation, *Lorraine F. Kubicek, Barbara A. Danis, Robert N. Emde*
- B27 Relations between language competence and emotion regulation in toddlers, *Carolyn O. Kurowski, Jannette M. McMenemy, Wendy S. Grolnick, Lisa J. Bridges*
- B28 Parents, infants and siblings: Emotion regulation in a triadic context, *Alison L. Miller, Nancy L. McElwain, Brenda L. Volling*
- B29 Emotion regulatory processes during the first year of life, *Jody M. Ganiban*
- B30 The family context of toddler emotional regulation, *M. Ann Easterbrooks, Jana H. Chaudhuri, Melissa J. Slaboda, Jasanna S. Poodiack, Kristen Roberto, Carrie Morgan*
- B31 The socialization of toddler emotion regulation: Contributions of parents and day care teachers, *Robin Hornick Parritz, Andrea M. Jara*

Effects of Early Child Care (Fr27)

- B32 Relating quality of center care to early cognitive and language development longitudinally, *Margaret R. Burchinal, Joanne E. Roberts, Donna M. Bryant*
- B33 The association between time spent in daycare and infants' exploratory behaviors, *Pamela Schuetze, Deborah DiMartino, Audra Lewis*
- B34 Quality of care and infants' records of their experience in child-care, *Miriam K. Rosenthal, Anat Geller*
- B35 Supporting the development of sensitive caregiving relationships for toddlers in child care, *Susan L. Recchia, Yumiko Sekino*
- B36 Prediction of behavior problems in early adolescence from early experiences in child care, *Carolee Howes*

Problematic Attachments (Fr28)

- B37 Interaffectivity, attachment, and perinatal vulnerability, *Lenore R. Weissmann, Susan Kromelow, Carol G. Harding, Kerry Brown*
- B38 Relation between birth status and attachment security, *Josée Laganière, Réjean Tessier, Line Nadeau, Christiane Piché*
- B39 Temperament, attachment, and heart rate variability: Comparisons of secure, avoidant, and disorganized infants, *Margaret Fish, Stephen E. Fish*
- B40 Coercive attachment, marital distress, and ineffective parenting as predictors of disruptive behavior in preschool children, *Crystal DeVito, Joyce Hopkins*
- B41 Outcomes of two infant-mother therapies: Association between attachment security and mother-infant play, *Nancy J. Cohen, Mirek Lojkasek, Elisabeth Muir*
- B42 Attachment and feeding problems: Reexamination of non-organic failure to thrive and attachment security, *Irene Chatoor, Jody M. Ganiban*

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11:00-12:50 a.m.
Georgia

Poster Session

Issues in Temperament (Fr29)

- G01 Prenatal stress and infant temperament: A preliminary study, Nancy C. Snidman, Pathik D. Wadhwa, Kimberly Herbel, Christine Dunkel-Schetter, Jerome Kagan, Curt A. Sandman
- G02 A comparison of child temperament as a mediator in mother-toddler problem solving in a high-risk vs. community sample, Beverly I. Fagot, Katherine C. Pears
- G03 Normative changes in mothers' ratings of infant temperament, Melinda B. Maher, Katherine H. Karraker
- G04 The relation between developmental achievements and mothers' perceptions of infant temperament, Melinda B. Maher, Katherine H. Karraker
- G05 The development of temperament in infancy: Continuity and change, Carmen Gonzalez, Jose A. Carranza, Manuel Ato
- G06 Sociability and vocabulary size: A true relationship or an assessment issue?, Heidi K. Schwartz
- G07 Temperament over time and tests: A case for continuity, Claire Novosad, Alissa Drasch, Evelyn B. Thoman
- G08 Relationship between infant temperament characteristics and children's adaptation to formal schooling, Ramie Robeson Cooney, Deborah L. Holmes
- G20 A multiple method approach to temperament from infancy to early childhood: Associations with parental involvement and marital quality, Jean L. McHale, Cynthia A. Frosch, Sarah C. Mangelsdorf

Listening to Music (Fr30)

- G09 Infants prefer higher-pitched singing, Laurel J. Trainor, Christine A. Zacharias
- G10 Changes between 6 and 8 months in the segmentation of tone patterns, Erika Nurmsoo, Laurel J. Trainor
- G11 Mothers' singing to infants and preschool children, Tonya R. Bergeson, Sandra E. Trehub
- G12 Developmental issues in melody discrimination, E. Glenn Schellenberg, Sandra E. Trehub
- G18 The perception of emotion in music by eight-month-old infants, Suzanne E. Sullivan, Douglas A. Gentile, Anne D. Pick

Sleeping and Waking (Fr31)

- G13 Development of behaviors on preterm infants: Relation to sleep-wake states, Debra H. Brandon, Diane H. Holditch-Davis, Michael Belyea
- G14 Sleep-wake behavior and temperament as predictors of performance during a paired-comparison task, Donna Fisher-Thompson, Diane K. Rieger, Melissa R. Kreiger, Patricia A. Lynch, Gina Aguayo
- G15 Maternal perception of night awakenings and infant self-soothing behavior during the first year of life, Erika E. Gaylor, Beth L. Goodlin-Jones, Melissa M. Burnham, Thomas F. Anders
- G16 Night-to-night consistency of sleep variables over the first year: A preliminary analysis, Melissa M. Burnham, Thomas F. Anders, Erika E. Gaylor, Beth L. Goodlin-Jones
- G17 Relation of infant waking behavior and mother-infant free play, Amy K. Morgan, Karen Throckmorton, Debra A. Harkins

12:30-2:20 p.m.
Ballroom South

Invited Address (Fr32)

The once and future infant

Chair: Rochel Gelman

Speaker: Jean Mandler

12:30-2:20 p.m.

Sherwood

Discussion Session (Fr33)

Integration of grant review from NIMH, NIAAA, and NIDA into the Center for Scientific Review (formerly, Div. of Research Grants) at NIH

Chair: *Anita Sostek*

12:30-2:20 p.m.

Ansley

Discussion Session (Fr34)

Fetal behavior: Time to reflect and refocus for a challenging future

Chair: *Jean-Pierre Lecanuet*

Participants: *Anthony J. DeCasper, Lawrence Devoe, William P. Fifer, Lynn Groome, Barbara S. Kisilevsky, Jean-Pierre Lecanuet, Robert E. Lickliter*

12:30-2:20 p.m.

Habersham

Symposium (Fr35)

Effects of experience on perception

Chair: *Amy Needham*

Increasing specificity in the development of intermodal perception, *Lorraine E. Bahrick*

Infants' use of experience in object segregation, *Amy Needham*

Representation expressed by action on unseen objects, *Rachel K. Clifton*

Infants' perception and representation of biological objects, *Bennett I. Bertenthal, Xinzi Wu, Jeannine Pinto*

Discussant: *Albert Jonas*

12:30-2:20 p.m.

Atlanta

Symposium (Fr36)

Joint attention: New research on social, cognitive, and neurological processes in typical and atypical development

Chair: *Peter C. Mundy*

The relation of joint attention at 13 months to subsequent language, verbal IQ, and nonverbal IQ measures through middle childhood, *Lars Smith, Stein Ulvund*

Brain development and joint attention in 14- to 18-month-olds, *Judith Card, Peter C. Mundy, Nathan A. Fox*

Joint attention as a predictor of language skills and peer engagement in children with autism, *Marian D. Sigman*

Joint attention and behavioral outcome in cocaine exposed infants, *Jennifer C. Willoughby, Peter C. Mundy*

Discussant: *Lauren B. Adamson*

12:30-2:20 p.m.
Marietta

Symposium (Fr37)

One language theory or two? Toward a unified theory of language development

Chair: *Elena M. Nicoladis*

Prosodic phonology in bilingual two year olds: One system or two?, *Johanne Paradis*

The interplay between language specific development and cross-linguistic influences: Evidence from the simultaneous acquisition of German and French, *Susanne Döpke*

Evidence for transfer in a French-Dutch bilingual child, *Aafke Hulk, Elisabeth van der Linden*

The development of word meaning: From monolingual to bilingual acquisition, *Suzanne Quay*

Discussants: *Elizabeth Lanza, Rosemarie Tracy*

1:00-2:50 p.m.
Ballroom North

before 2

Poster Session

Auditory Perception (Fr38)

B01 Perception of the pitch of the missing fundamental by 4-month-old infants, *Marsha G. Clarkson, Christie R. Montgomery, Sheridan G. Miciek, Meredith E. Larson*

B02 The effects of prior experience on auditory localization in infants, *Amy L. Brown, Linda L. LaGasse, Lauren Schwartz, Rebecca VanVorst*

B04 Mismatch negativity (MMN) as a measure of gap detection in 8-month-old infants and adults, *Renée N. Desjardins, Laurel J. Trainor, Cindy Polak*

B05 The psychometric function of infants detecting broadband noise, *Lynne A. Werner, Julianne M. Siebens*

B06 A longitudinal investigation of infant auditory sensitivity, *Daniel H. Ashmead, Anne Marie Tharpe*

Compliance and Negativity (Fr39)

B07 The relation between infants' capacity to regulate negative reactivity and later noncompliance, *Tracy L. Spinrad*

B08 Predicting early self-regulation from maternal and child characteristics, *Anne E. Hungerford, Celia A. Brownell*

B09 Negativism and ego-related behaviors among Japanese children, *Tatsuo Ujiie*

B10 Children's responsiveness to mother in imitation and compliance tasks: A link between two arenas of socialization, *David R. Forman*

B11 Transgression behavior and heart rate by temperament and birth order, *Doreen Arcus, Christine Aftuck, Gail Agronick, Gail Andrick, Susannah Beals, Ruth Bell, Sherry Gardner, C. Edward Shackelford*

Parental Practice and Policy (Fr40)

B12 When is maternal SES not really maternal SES?, *Doreen Arcus*

B13 Parental leave in the United States: Behavior and satisfaction of new parents, *Amy L. Sussman, Ruth Feldman*

B14 Mothers' re-adjustment to work following the birth of a first child, *Ruth Feldman, Roni Nadam*

B15 Predictors of intervention success and failure in a preventive home visiting program, *Jon Korfmacher*

B16 Parental stress, psychosocial problems, and responsiveness in help-seeking parents with small (2-45 months old) children, *Monica Ostberg*

B17 The influence of child-centered perspectives with sensitive parenting and children's social responsiveness, *Cynthia L. Miller-Loncar, Susan H. Landry, Karen E. Smith, Paul R. Swank*

- B18 **Community-based family resource program model: A state-wide evaluation**, Anne McDonald Culp, Rex E. Culp, Pam Marr, Tara S. Wells, Christina S. Howell
- B19 **The relationship between parents' expectations, beliefs, and behavior from pregnancy to four-months post-partum**, Patricia Hrusa Williams
- B20 **Parents' explanations of their children's behaviors and their relation to parenting behaviors**, Catherine Burns, Lynne Bond
- B21 **Parent-infant interaction and triadic family relationship**, Kai von Klitzing, Heidi Simoni, Dieter Bürgin

Caring for High Risk Newborns (Fr41)

- B22 **Premature infant responses to taped maternal voice**, Maryann Bozzette
- B23 **A comparison of maternal verbal interaction with premature and term infants from birth to two months**, Nadja Reissland
- B24 **The effect of premature infants' speech preferences on mother-preterm interaction**, Alisa Nowik-Stern, Marsha G. Clarkson, Mary K. Morris, Roger Bakeman
- B25 **Self-regulatory mothering vs. nursery routine care postbirth: Effect on salivary cortisol and interactions with gender, feeding, and smoking**, Gene Cranston Anderson, Charles E. Wood, Hui-Ping Chang
- B26 **Environmental intensity of the NICU based upon NIDCAP ratings**, Jana L. Pressler, Joseph T. Hepworth, Nancy L. Wells, James M. Helm, William F. Walsh
- B27 **Psychosocial factors during late gestation and the early neonatal period predict child growth at 18 and 36 months**, Cynthia Larkby, Nancy L. Day, Gale A. Richardson
- B28 **Perinatal factors associated with the need for assisted ventilation in neonates**, Shyang-Yun Pamela K. Shiao
- B29 **Factors associated with frozen pulse oximeter readings**, Shyang-Yun Pamela K. Shiao
- B30 **Kangaroo-mother care during phototherapy: Effect on bilirubin profile**, Joan Swinith, Susan M. Ludington-Hoe
- B31 **Predictiveness of early patterns of maternal interactive behaviors on preschool outcomes**, Karen E. Smith, Susan H. Landry, Cynthia L. Miller-Loncar, Paul R. Swank
- B32 **"Co-Naitre": A home based intervention program for extremely premature infants and their mothers**, Pascale Mercier, Stéphanie Larin, Réjean Tessier

Very Low Birth Weight Babies (Fr42)

- B33 **What matters most - born underweight or born too early?**, Tina Gutbrod, Dieter Wolke
- B34 **Characterization of habituation in very low birth weight and full term infants**, Jennifer J. Thomas, Hilary J. Leovers, Priya Khanna, April Ann Benasich
- B35 **The social behavior of extremely premature and VLBW children at 7 years old: A transactional model**, Line Nadeau, Réjean Tessier, Josée Laganière, Francine Lefebvre, Philippe Robaey
- B36 **Supportive parenting strategies for facilitating the development of VLBW infants: A parenting intervention**, Susan H. Landry, Karen E. Smith, Cynthia L. Miller-Loncar, Paul R. Swank
- B37 **VLBW infants, co-managed health care, and sampling procedures**, C. J. R. Simons, M. Mandich, S. Ritchie, M. Mullett, M. Polak, S. Lynch
- B38 **Development at 8-12 months of an Alberta sample of preterm VLBW versus full term infants**, Deborah Dewey, Dianne E. Creighton, Reg S. Sauve
- B39 **Follow-up of extremely low birthweight (ELBW) infants: Outcome at 8 to 12 Years**, Catherine A. Vander Haar, Joseph A. Holahan, Lois J. Hochberg
- B40 **Self-regulatory behaviors and cardiorespiratory reactivity of very low birthweight preterm infants in the NICU**, Rosemarie Bigsby, Barry M. Lester
- B41 **Vagal regulation in the prediction of outcome in low birthweight infants**, Bonita D. McClenny, Jane A. Doussard-Roosevelt, Stephen W. Porges
- B42 **Neurophysiologic assessment of auditory brain maturation in extremely premature infants**, Frank R. Mattia, Raye-Ann O. deRegnier

1:00-2:50 p.m.
Georgia

Poster Session

Toddler Topics (Fr43)

- G01 Observations of conscience development in young children, *Lisa R. Grinde, Barbara J. Myers*
- + G02 Toddlers' and mothers' behaviors in an injury risk situation: Implications for sex differences in childhood injuries, *Barbara Morrongiello, Dawn Guthrie, Tess Dawber*
- G03 Laboratory-based assessments of ego control during the toddler period, *Aaron D. Krasnow, Regina Kuersten-Hogan, Allison Lauretti, James P. McHale*
- G04 Mothers of toddlers: Annoyances and difficulties, *Claire B. Kopp, Donna Bean*
- G05 Influence of social interaction and duplicate objects on toddler conflict from ten to twenty-four months, *Jeanne T. Karns*
- G06 Toddler play activities during small and large group play, *Jeanne T. Karns*
- G07 Motor imitation in the second year of life, *Cynthia D. Littleford, Wendy L. Stone*

Stepping and Walking (Fr44)

- G09 Development of the vestibulo-ocular responses in toddlers learning to walk, *Annick Ledebt, Sylvette R. Wiener-Vacher*
- G10 Supported walking of children with periventricular leucomalacia, *Magdalen S. M. Waardenburg, Renate Albers, Beatrix Vereijken, Geert J. P. Savelsbergh*
- G11 The effect of mass perturbation on infant kicking during early development, *Juliette Vaal, Knoek van Soest, Brian Hopkins*
- G121 Infant learning about balance control across changes in body posture, *Karen E. Adolph, Anthony M. Avolio, Katherine E. Melton, Heather S. Arnet, Marion A. Eppler*
- G13 The nature of support in supported walking, *Beatrix Vereijken, Renate Albers*
- G14 Treadmill stepping in preterm infants, *Deborah Winders Davis, Beverly D. Ulrich, Shirley A. Wilkerson*
- G15 Qualitative description of changes in stepping patterns in infants born preterm, *Carolyn B. Heriza, Ronda S. Baxter*
- G26 A longitudinal study of interlimb and intralimb coordination in fullterm and preterm infants, *Jan P. Piek*

Taste and Smell (Fr45)

- + G19 Responses of neonates to the odors of their mother's breast and amniotic fluid, *Richard H. Porter, Heili Varendi, Jan Winberg*
- + G20 Infant facial expression in response to gustatory stimuli of different qualities and intensities, *Rebecca Johnson, Gillian Harris*
- + G21 Effects of exposure on taste preference development in infancy, *Rebecca Johnson, Gillian Harris*

2:30-4:20 p.m.
Ballroom South

Presidential policy symposium (Fr46)

Infant research, public policy, and the media

Chair: *Esther Thelen*

Participants: *Mark I. Applebaum, Sandra Blakeslee, Robert N. Emde, Megan R. Gunnar, Deborah Phillips, Esther Thelen, Barry Zuckerman*

2:30-4:20 p.m.
Habersham

Discussion Session (Fr47)
Talk with Journal Editors

Chair: *John Worobey*

Participants: *Marc H. Bornstein, James L. Dannemiller, Carol O. Eckerman, Hiram E. Fitzgerald, Carolyn Rovee-Collier, M. Suzanne Zeedyk, Philip D. Zelazo*

2:30-4:20 p.m.
Atlanta

Symposium (Fr48)
Cognitive approaches to the role of parental sensitivity in the development of attachment security

Chair: *Peter Fonagy*

Deciphering sensitive care: Mother-infant interactions across contexts, *Judit Gervai, Júlia Frigyes, Krisztina Lakatos, Krisztina Ney, Ildikó Tóth*

Mentalization as a core component of parental sensitivity, *Peter Fonagy, Pasco Fearon, Miriam Steele, Howard Steele*

Affect-mirroring as a mechanism of parental sensitivity, *György Gergely, Orsolya Koós, Júlia Frigyes, Krisztina Lakatos, Krisztina Ney, Ildikó Tóth*

Describing mother-infant interaction in the home: The Pederson-Moran Maternal Behavior Q-sort, *David R. Pederson, Greg Moran, Sandi Bento*

Discussant: *Edward Z. Tronick*

2:30-4:20 p.m.
Sherwood

Symposium (Fr49)
Thinking beyond the first step: Infants' and toddlers' problem solving strategy and choice

Chair: *Robert Siegler*

Infants' and toddlers' strategies for grasping and using tools, *Michael McCarty, Rachel K. Clifton*

Ready, set, goal: The effect of cues on generalization and problem solving in young children, *Jennifer A. Schwade, Patricia J. Bauer*

Development of means-end planning in the second year of life, *Peter Willatts*

Not beyond their grasp: Microgenetic analyses of infants' strategy discovery and generalization, *Zhe Chen, Robert Siegler*

Discussant: *Judy S. DeLoache*

2:30-4:20 p.m.
Ansley

Symposium (Fr50)
The role of fathers in early affective development

Chair: *Brenda L. Volling*

Infant affect and affect-regulation during still-face with mothers and fathers: The role of infant characteristics and parental sensitivity, *Julia M. Braungart-Rieker, Molly M. Garwood, Bruce P. Powers, Paul C. Notaro*

Differences and similarities in maternal and paternal emotion socialization: Effects on infant affect and attention, *Brenda L. Volling, Carla Herrera, Paul C. Notaro, Nancy L. McElwain*

A longitudinal investigation of infant emotion regulation with mothers and fathers, *Lisa J. Bridges, Wendy S. Grolnick*
Fathers' and mothers' parenting during the first three years: Predictors and correlates, *Sarah C. Mangelsdorf, Cynthia A. Frosch, Jean L. McHale*
Discussant: *Michael E. Lamb*

2:30-4:20 p.m.

Marietta

Symposium (Fr51)

Infants and other "animals": The problematic study of subjectivity

Chair: *Paul H. Morris*

The importance of emotions and intersubjectivity in the development of communication in chimpanzees, *Kim A. Bard*

An intersubjective psychology for infancy?, *Vasudevi Reddy*

What is it like to be a pig in a small barren pen? The scientific study of subjective experience in farm animals, *Françoise Wemelsfelder*

Drawing the line: The differentiation of "human" and the "subhuman" in developmental and comparative psychology, *Paul H. Morris, Alan Costall*

Discussant: *Alan Fogel*

2:30-4:20 p.m.

Roswell

Symposium (Fr52)

Feeding disturbances in infancy: Physiology, parent-child relationships and diagnostic classification

Chair: *Martin Maldonado-Durán*

Diagnosis and treatment of infantile anorexia, *Irene Chatoor*

The physiology of feeding and its implication in the treatment of infant feeding disorders, *Maria Ramsay, Vicki Veroff*

A proposed diagnostic classification of feeding difficulties: How diagnosis informs treatment recommendations, *Martin Maldonado-Durán, Richard Holigrocki, Christine Moody*

4:30-6:00 p.m.

Ballroom South

Keynote Address (Fr53)

Ontogeny and phylogeny revisited, or why the child is not the evolutionary father to the man

Chairs: *Esther Thelen, Roger Bakeman*

Speaker: *Stephen Jay Gould*

6:30-10:00 p.m.

Atlanta Botanical Garden.

Garden Party and Dinner Buffet

Tickets are limited and must be purchased in advance. Buses to and from the garden will be provided, although the athletically inclined may prefer to walk the 5 or so blocks. *We thank Georgia State University for supporting the planning for this event.*

Saturday, April 4

8:30-10:20 a.m.
Ballroom South

Invited Address (Sa01)

Mothers and infants: Suckling, opioids, analgesia, and the origins of mother love

Chair: *Rachel K. Clifton*

Speaker: *Elliott Blass*

8:30-10:20 a.m.
Habersham

Symposium (Sa02)

Emotional availability, attachment, and risk

Chair: *Zeynep Biringen*

Adapting the emotional availability scales for 4-month old infant-mother dyads: Associations with molecular coding and maternal psychopathology, *Alice Carter, Christina B. Little, Frances Beth Garrity-Rokous*

Infant-caregiver interactions in developing attachment relationships: Emotional availability in foster care dyads, *Kathleen E. Albus, Mary Dozier*

Atypical maternal behavior and infant attachment as predictors of emotional availability in middle school, *M. Ann Easterbrooks, Gretchen Biesecker, Karlen Lyons-Ruth*

"Apparent sensitivity": A methodological note and a proposed link with the C-attachment classification, *Zeynep Biringen*

Discussant: *Robert N. Emde*

8:30-10:20 a.m.
Atlanta

Symposium (Sa03)

Process and outcome of preterm baby care

Chair: *Elvidina Nabuco Adamson-Macedo*

Attitudes of the medical and nursing professions towards psychological interventions in the neonatal unit, *Aine de Róiste*

Sensitivity and susceptibility to deep or light touch?, *Elvidina Nabuco Adamson-Macedo, Julie A. Hayes*

Assessment of spontaneous general movements as a measure for brain maturation in preterm infants, *Janet C. Constantinou, Elvidina Nabuco Adamson-Macedo, Majid Mirmiran, B. E. Pleisher*

Coactions between the physiological, behavioral, and immunologic systems of the ventilated preterm neonate, *Julie A. Hayes, Elvidina Nabuco Adamson-Macedo*

Discussants: *Fairo Werner Jnr., Peter Willatts*

8:30-10:20 a.m.
Sherwood

Symposium (Sa04)

Emergence of motor organization in the fetus and neonate: Congruent themes in human and animal models

Chair: *Marie J. Hayes*

Organizational principles in the prenatal development of motor behavior, *Scott R. Robinson*

Antenatal and neonatal development of motor organization, *C. Robert Almli*

The sleep/wake states as patterned motor behaviors, *Evelyn B. Thoman*

Noise in early behavioral organization, *Steven S. Robertson*

Discussants: *Marie J. Hayes, Mark S. Blumberg*

8:30-10:20 a.m.
Ansley

Symposium (Sa05)

Environmental influences on fearful behavior in infants

Chair: *Jacob L. Gewirtz*

Infants' approach and avoidance to strangers influenced by maternal contingencies, *Kerrie Lum Lock, Jacob L. Gewirtz, Martha Peláez-Nogueras*

Environmental influences on fearfulness in young children, *Patrice M. Miller*

Determinants of fear-denoting protests in darkness and in illuminated settings, *Aida I. Sanchez, Jacob L. Gewirtz, Martha Peláez-Nogueras*

Discussants: *Lewis P. Lipsitt, Martha Peláez-Nogueras*

8:30-10:20 a.m.
Marietta

Symposium (Sa06)

Emotion regulation in infants and young children: Contributions of parenting and temperament

Chairs: *Marissa Diener, Tracy L. Spinrad*

Reactions to frustration and novelty in infancy: Physiological and behavioral consistencies and inconsistencies, *Samuel P. Putnam, Norman Turk, Cynthia A. Stifter*

Mother-father differences and paternal correlates of infant emotion regulation, *Marissa Diener, Sarah C. Mangelsdorf, Jean L. McHale, Cynthia A. Frosch*

Predicting individual differences in toddlers' behavioral control: Contributions of maternal responsivity and emotion regulation in infancy, *Tracy L. Spinrad, Cynthia A. Stifter*

Patterns of mother-child interaction in two-year-old children with externalizing-type behavior problems, *Cynthia L. Smith, Laura E. Lomax, Susan D. Calkins*

Discussant: *Cynthia A. Stifter*

8:30-10:20 a.m.

Roswell

Symposium (Sa07)

Impact of parental drug use on behavioral regulation over the first 24 months of life

Chair: *Claire D. Coles*

Arousal and arousal modulation in 8-week-old infants as a function of gestational age and prenatal drug exposure, *Kim A. Bard, Claire D. Coles, Kathleen A. Platzman, Mary E. Lynch*

The behavioral regulation skills of 6- and 12-month-old infants exposed prenatally to cigarette smoke and/or alcohol, *Julie A. Kable, Claire D. Coles, Arthur Falek*

Attachment and empathy among infants of alcoholic parents, *Rina D. Eiden, Kenneth Leonard*

Regulatory dysfunction at 24 months in children of women using cocaine and other drugs, *Kathleen A. Platzman, Claire D. Coles, Josephine V. Brown, Mary E. Lynch*

Discussant: *Philip Sanford Zeskind*

9:00-10:50 a.m.

Ballroom North

Poster Session

Spatial Matters (Sa08)

- B01 Spatial memory in five-month-olds is more than categorical, *Nora S. Newcombe, Janellen Huttenlocher, Amy Learmonth*
- B02 The role of visual and movement information in infant search, *Mark A. Schmuckler, Hannah Y. Tsang*
- B03 The continuity as the basic infant representation space knowledge, *Elena A. Sergienko*
- B04 Global influences on the development of spatial relation and natural object categorization: Evidence from preterm infants, *Clay Mash, Paul C. Quinn, Velma Dobson, Dana B. Narter*
- B05 Relational use of landmarks by 9-month-old infants in a spatial orientation task, *Adina R. Lew, Gavin Bremner*
- B06 Detour behavior and side preferences at ages 9 and 12 months, *Marion A. Eppler, Nicole L. Norfleet, Kotoe Bruce, Jeff Wendt*
- B07 Categorical representation of specific versus abstract above and below spatial relations in 3- to 4-month-old infants, *Paul C. Quinn, Jennifer L. Polly, Velma Dobson, Dana B. Narter*

Speech to Infants (Sa09)

- B08 The impact of maternal speech on children's linguistic development, *Michelle Lee Morse, Deborah L. Holmes*
- B10 Analyzing adult time talk to infants and toddlers, *Janette B. Benson, Ayelet Talmi, Marshall M. Haith*
- B11 Infants' categorization of infant-directed utterances produced by a single speaker, *Ilse J. Wambacq, Melanie J. Spence, Virginia A. Marchman*
- B12 Acoustic differentiation of affective vocalizations to infants by mother and fathers, *Gerald W. McRoberts, Malcolm Slaney*
- B13 The role of rate in directing attention to infant-directed speech: A replication, *Jamie S. Cooper, Wendy L. Ostroff, Robin Panneton Cooper*
- B14 Maternal speech to 1- and 4-month-old infants: A content analysis, *Pia Christina Strunk, Carrie Green, Robin Panneton Cooper*
- B15 Six-month-olds' discrimination in infant-directed speech, *Heather M. Theaux, Jason S. McCartney, Kemie Alexander, Robin Panneton Cooper*
- B16 ID pitch contours are not sufficient to elicit preferences in 4-month-olds, *Jason S. McCartney, Heather M. Theaux, Kemie Alexander, Robin Panneton Cooper*

Expression of Emotion (Sa10)

- B17 EEG patterns during different emotions, *Nancy Aaron Jones, Tiffany M. Field, Marisabel Davalos, Carlos J. Gomez*
- B18 The development of negative emotions in early infancy, *Louise Cossette*
- B19 Neonatal smiles, *Daniel S. Messinger, Marco Dondi, G. Christina Nelson-Goens, Alessia Beghi, Alan Fogel, Francesca Simion*
- B20 Infant expressiveness: The influences of infant affective stability, maternal mood, and maternal affective behavior, *Erika E. Forbes, Adena J. Zlochower, Jeffrey F. Cohn*
- B22 Toddler smiling in the context of mother-child water play, *G. Christina Nelson-Goens, Karen DeBirk*
- B23 Characteristics of infant laughter during the first six months of life, *Hui-Chin Hsu, Evangeline E. Nwokah, Alan Fogel*
- B24 The development of positive affect from 8 to 23 months, *Katherine C. Coy*

Autism and Joint Attention (Sa11)

- B25 Effect of treatment on play in intact and impaired processors, *Philip Roman Zelazo, Richard B. Kearsley, Anna K. Kruzynski, Caroline A. Reid*
- B26 The relationship between joint attention and symbolic play in autism, *Mary M. Crowson, Peter C. Mundy, Joycelyn Lee, A. Rebecca Neal*
- B27 Early identification of autism in 8-10 month old infants using home video tapes, *Emily C. Brown, Geraldine Dawson, Julie Osterling, Nuhad Dinno*
- B28 Infant precursors of theory of mind abilities in autism and developmental disabilities, *Norman H. Kim, Marian D. Sigman*
- B29 Stability of joint attention skills in children with autism, *Cynthia D. Littleford, Marian D. Sigman, Donna W. Liau*
- B30 Autism and resisting joint attention, *Lauren B. Adamson, Duncan McArthur, Yana Markov, Barbara Dunbar*

Atypical Communication (Sa12)

- B31 Comprehension profiles of toddlers with severe spoken communication impairments, *Rose A. Sevcik, Mary Ann Ronski, Lauren B. Adamson*
- B32 Gestural imitation and contingent parent responses in nonspeaking children with physical impairments, *Cynthia J. Cress, Teresa A. Andrews, Collin D. Reynolds*
- B33 Communicative gesture use by preschoolers with Williams syndrome: A longitudinal analysis, *Jacquelyn Bertrand, Carolyn B. Mervis, Ivy Neustat*
- B34 The shape of expressive vocabulary growth in children with Williams syndrome, *Byron F. Robinson, Carolyn B. Mervis*
- B35 Attention to faces in infancy: Comparison of an infant with Williams syndrome to typically developing infants, *Carolyn B. Mervis, Bonita P. Klein, Jacquelyn Bertrand, Susanna Kwitny, L. Gregory Applebaum*
- B36 Maternal interpretation during social interaction with infants having Down syndrome, *Samira M. Baird, Rebecca Ingram, JoEllyn Peterson*
- B37 Effects of didactic strategies on symbolic behavior in infants with and without Down syndrome, *Maria Legerstee, Yolanda van Beek, Jean Varghese*
- B38 Conversational interactions between blind infants and mothers, *Gina Conti-Ramsden, Miguel Perez-Pereira*
- B41 Verbal and nonverbal communication skills in infants with late onset of canonical syllables, *A. Rebecca Neal, Peter C. Mundy, D. Kimbrough Oller, Rebecca E. Eilers*
- B42 Prelinguistics communication in congenitally blind infants, *Jana M. Iverson, Heather L. Tencer, Susan Goldin-Meadow*

9:00-10:50 a.m.

Georgia

Poster Session

Studies of Memory (Sa13)

- G01 Retention of specific motor solutions in three month-olds using a constrained contingent reinforcement procedure, *Christen L. Horn, Rosa M. Angulo-Kinzler, Esther Thelen*
- G02 Processing speed and working memory in infancy: Evidence from a dissociation in performance on the Visual Expectation Paradigm, *Thomas M. Dougherty*
- G03 Maternal stylistic differences and 24-month-olds' nonverbal memory performance: Effects at encoding, retrieval, or both?, *Patricia L. Dropik, Rebecca A. Niedfeldt, Christine R. Leehey, Patricia J. Bauer*
- G04 Recycling event knowledge: Facilitating generalization in 30-month-olds, *Patricia J. Bauer, Jennifer A. Schwade, Tara M. van Brederode*
- G05 Developmental changes in declarative memory, *Jane Herbert, Harlene Hayne*
- G06 Bridging the gap: Adults' language facilitates infants' memory, *Jane Herbert, Harlene Hayne*
- G07 The influence of amount of stimulus experience on event-related potential measures of memory in 3-month-old infants, *David G. Thomas, Margaret R. Letterman, Vickie M. Little, Rima G. Najm, Kyle Chambers*
- G08 Information overload: Effects of narration and temporal order on 20-month-olds' recall, *Elysia Poggi Davis, Tiffany A. West, Patricia J. Bauer*
- G09 Neurophysiologic assessment of auditory recognition memory in newborn infants of diabetic mothers, *Raye-Ann O. deRegnier, Michael K. Georgieff, Kathleen M. Thomas, Sandi M. Wewerka, Stephanie R. Tribby-Walbridge, Charles A. Nelson*
- G10 Electrophysiological assessment of pre-explicit memory in at-risk 6-and 8-month-old infants, *Sandi M. Wewerka, Kathleen M. Thomas, Stephanie R. Tribby-Walbridge, Michael K. Georgieff, Charles A. Nelson*
- G11 Easy does it? The role of task difficulty and age in infants' recall of events, *Leslie J. Carver*
- G12 As time goes by: Forgetting and remembering in 9- and 10-month-olds, *Leslie J. Carver*
- G20 Effects of visual and auditory distractors on infants' short term spatial memory, *Jana D. Axelrad, Elizabeth E. Garner, W. Keith Berg*

Understanding Numbers (Sa14)

- G13 Electrophysiological correlates of number discrimination in infants, *Rosa I. Arriaga, Kelly Snyder, Charles A. Nelson*
- G14 Infants' understanding of 1+1: New evidence, *Claudia Uller*
- G15 Large number discrimination in 6-month-old infants: Evidence for the accumulator model, *Fei Xu, Elizabeth Spelke*
- G16 Numerical knowledge in infancy: The number/mass distinction, *Lisa Feigenson, Elizabeth Spelke*
- G17 Infants' understanding of quantity: "More" versus "less", *Lynne S. C. Tan*

10:30-12:20 a.m.

Ballroom South

Debate (Sa15)

Do infants possess innate knowledge structures?

Moderator: *Roberta M. Golinkoff*

Participants: *Renee Baillargeon vs. Linda B. Smith*

10:30-12:20 a.m.
Habersham

Symposium (Sa16)

**Methodological questions and answers in prenatal cocaine exposure:
Turning "junk" science into genuine science**

Chair: *Robert Arendt*

Accuracy in detecting prenatal drug exposure, *Robert Arendt, Lynn T. Singer, Sonia Minnes, Joanne Robinson, Ann E. Salvator*

Examiner masking in research on the effects of prenatal cocaine exposure, *Fonda Davis Eyler, Marylou Behnke, Kathleen Wobie, Nanci Stewart Woods, Mike Conlon*

Prenatal cocaine exposure: Controlling for covariates of use, *Gale A. Richardson, Nancy L. Day*

Sampling in research on prenatal cocaine exposure: Vexing problems and practical solutions, *Heather Carmichael Olsen, Susan K. Toth*

Discussants: *Barry M. Lester, Lynn T. Singer*

10:30-12:20 a.m.
Atlanta

Symposium (Sa17)

**Development of perception of emotional expressions: The influence
of multimodal, familiar, and unfamiliar contexts**

Chair: *Arlene S. Walker-Andrews*

The role of facial and vocal information in the discrimination of affect by 5-month-olds, *Linnea Dickson, Marjorie A. Ryder*

The influence of facial, vocal, and multimodal emotional signals of infant behavior, *Donna L. Mumme, Anne Fernald*

The perception of emotional expressions by 4-month-old infants: Familiarity effects, *Ronit Kahana-Kalman, Diane Montague*

The specification of emotion in music and dance: Evidence for structural cues, *R. Thomas Boone, Joseph G. Cunningham*

Discussant: *Darwin W. Muir*

10:30-12:20 a.m.
Sherwood

Symposium (Sa18)

**Neural plasticity in infant cognitive, affective, and perceptual
development**

Chair: *Louis A. Schmidt*

**Frontal lobe function and the A-not-B task: Evidence for neural plasticity in cognitive
development during infancy,** *Martha Ann Bell*

Plasticity in language and music acquisition in infancy, *Laurel J. Trainor, Renée N. Desjardins*

Neural plasticity and affective development in human infants, *Louis A. Schmidt, Nathan A. Fox*

Cardiac vagal regulation and neural plasticity, *Jane A. Doussard-Roosevelt, Stephen W. Porges*

Discussant: *Daphne Maurer*

10:30-12:20 a.m.
Ansley

Symposium (Sa19)

Feeding of high risk infants: Physiological chances and parenting behaviors

Chair: *Margaret S. Miles*

+ Maternal perception of parenting an infant who cannot eat: Infants with severe gastrointestinal disorders, *Margaret S. Miles, Jennifer Daniels*

+ Interactions between mothers and their premature infants during feeding and non-feeding periods, *Diane H. Holditch-Davis, Michael Belyea*

Preterm infant physiological regulation during feeding: Dyad and feeding episode predictors of higher oxygen saturation, *Suzanne M. Thoyre*

Nutritive sucking and neurobehavioral development in VLBW infants from 34 weeks PCA to term, *Barbara S. Medoff-Cooper, Jacqueline M. McGrath*

Discussant: *Josephine V. Brown*

10:30-12:20 a.m.
Marietta

Symposium (Sa20)

Acquisition of early lexicon

Chair: *Kim Plunkett*

Learning prosody: Infants' learning of two word stress rhythms, *Todd M. Bailey, Kim Plunkett*

What's in a name? Preferential orienting by 17-month-olds to images whose names they comprehend, *Graham Schafer*

When does an ostrich become a bird? The role of typicality in early word comprehension, *Kerstin Meints, Paul L. Harris*

Speech processing in very young children, *Daniel Swingley*

Discussant: *Peter Jusczyk*

10:30-12:20 a.m.
Roswell

Symposium (Sa21)

Parent and child influences on the development of self-regulation: Multiple perspectives, multiple pathways

Chair: *Celia A. Brownell*

Early development of self-regulation: Maternal and child contributions, *Anne E. Hungerford, Celia A. Brownell*

Self-regulation in toddlers: Construct validity and the impact of maternal behavior, *Kristin N. Newby, Susan B. Campbell*

Predicting emotion regulation from infancy to preschool-age: The influence of negative emotionality, marital relations, and parenting, *Erin M. Ingoldsby, Daniel S. Shaw, Elizabeth B. Owens, Emily Winslow*

Predicting emotion regulation during sibling conflict in childhood from infant difficulty and early marital conflict, *Monica M. Garcia, Daniel S. Shaw, Elizabeth B. Owens, Kirsten Yaggi*

Discussant: *C. Cybele Raver*

11:00-12:50 a.m.
Ballroom North

Poster Session

The Emergence of Symbols (Sa22)

- B01 Toddlers' understanding of the correspondence between television and reality, *Kelly L. Schmitt*
- B02 The impact of iconicity on early understanding of graphic symbols, *Tara C. Callaghan*
- B03 The emergence of early graphic symbol production, *Tara C. Callaghan*
- B04 Infants' and toddlers' abilities to visually discriminate written words, *Robert C. Titzer*
- B05 Infants' manual investigation of pictures as a function of exposure to the objects depicted, *Sophia L. Pierroutsakos*
- B06 Young children's use of directly-experienced vs. symbol-mediated information, *Georgene L. Troseth, Judy S. DeLoache*

Infant Perception and Long-Term Memory (Sa23)

- B07 Memory load effects on retention of list information at 6 months, *Michelle Gulya, Becky Sweeney, Carolyn Rovee-Collier*
- B08 Reinstating infant memory using multiple reminders, *Kristen Hartshorn, Carolyn Rovee-Collier*
- B10 How and when postevent information impairs memory for a prior event, *Alba Rossi-George, Carolyn Rovee-Collier*
- B11 Priming memory at 9 months: The latency of retrieval, *Karen Hildreth, Kristen Hartshorn, Carolyn Rovee-Collier*
- B12 Repeated reminders facilitate memory retrieval, *Harlene Hayne, Karen Hildreth, Carolyn Rovee-Collier*

Emotional and Behavioral Reactivity (Sa24)

- B13 Effect of maternal soothing on infant stress reactivity, *Douglas S. Ramsay, Michael Lewis*
- B14 Infants' emotional reactivity and regulation in states of fatigue and wakefulness, *Christine Nelson Ross, Katherine H. Karraker*
- B15 Reactivity to a looming stimulus: A twin study, *Etienne Dubreuil, Bernard Boulerice, Daniel Pérusse, Robert O. Pihl*
- B16 Relationship between behavioral reactivity to novelty and cortisol activity in infancy, *Nathalie Tremblay, Anna Pecchinenda, Michel Boivin, Valérie Sayset, Daniel Pérusse, Richard E. Tremblay*

Developmental Risk (Sa25)

- B17 Using home environment variables as predictors of resiliency in a sample of low-birthweight, Hispanic infants, *Stacey I. Gould, Karen M. Finello*
- B18 Use of the performance qualifier scale with the Bayley Scales of Infant Development as outcome measures evaluating developmental risk factors, *Ruth Rose-Jacobs, Howard H. Cabral, Marjorie M. Beeghly, Deborah A. Frank*
- B19 Environmental risk and developmental outcome at 8 months of age, *Wanda F. Grant, Margaret I. Bendersky, Michael Lewis*
- B20 Validation of prenatal screening procedure for risk of child abuse, *Lara M. Cady, Catherine Crain-Thoreson, Deborah Kirby Forgays, Ira Hyman*
- B21 Maternal childhood risk status as a predictor of emotional availability in mother-child interactions: An intergenerational study, *Vivianne M. Bentley, Dale M. Stack, Lisa A. Serbin*
- B22 The relationship between determinations of clinical risk status and the quality of adolescent mother infant interactions, *Holly E. Brophy-Herb, Alice Sterling Honig*
- B23 The Vulnerable Child Syndrome and maternal adjustment among mothers of high risk infants, *Paula A. Scheye, Douglas M. Teti, Jeanne H. Laliberte, Christine D. Reiner, Walter Meyer, Lynda Evans, Melissa A. O'Connell, Rose M. Viscardi*
- B24 The relation of personal and professional supports to maternal well-being for mothers of infants hospitalized in a NICU, *Christine D. Reiner, Douglas M. Teti, Lynda Evans, Jeanne H. Laliberte, Walter Meyer, Melissa A. O'Connell, Paula A. Scheye, Rose M. Viscardi*

Mother-Infant Interaction (Sa26)

- B25 **Perspectives on the analysis of maternal vocal responsiveness**, *Marguerite Stevenson Barratt, Mary A. Roach*
- B26 **Co-occurrence and sequential analyses of non-structured mother-infant interaction in 2- to 6-month-old infants**, *Thomas E. Hannan, Adriana Molitor*
- B27 **Developmental changes in the configuration of infant communicative actions: Vocalization, gazing, and sucking**, *Hui-Chin Hsu, Alan Fogel, Daniel S. Messinger*
- B28 **Developmental changes in early mother-infant face-to-face communication**, *Manuela Lavelli, Alan Fogel*
- B29 **Frame analysis of real-time and developmental-time transitions in early mother-infant communication**, *Andrea P. F. Pantoja, Maria B. Cranor, Alan Fogel*
- B30 **When infants gaze and mothers smile: Competing agenda?**, *Daniel S. Messinger, Alan Fogel, K. Laurie Dickson*
- B31 **Rating interactional synchrony between seven month old infants and their mothers**, *Chinnon M. Jaquay, Chrysostomos A. Lazarou, Peg Hull Smith, Wallace E. Dixon, Jr., Frank J. Bernieri*
- B32 **Mothers' and infants' use of touch during face-to-face play with and without objects**, *Karen A. Colburne, Dale M. Stack, Vivianne M. Bentley, Marni C. Switkin*
- B34 **Doula support: A risk free alternative for pain relief during labor**, *Susan K. McGrath, John H. Kennell, Vijay S. Varadarajulu*
- B35 **The effect of doula support during labor on mother-infant interaction at 2 months**, *Scott Martin, Susan H. Landry, Laura M. Steelman, John H. Kennell, Susan K. McGrath*
- B36 **Touch during mother-infant interactions**, *Emily L. Fergus, Jeffrey Pickens, Jennifer Schmidt*

Habituation Tasks (Sa27)

- B37 **Do measures of infant habituation organization predict childhood vocabulary and IQ scores?**, *Peter Willatts, Stewart Forsyth, Mary Katherine DiModugno, Karen Rosie*
- B38 **Visual scanning during the peak habituation trial: A further look at individual differences**, *Sharon J. Krinsky-McHale, Louise Hainline*
- B41 **Measuring attention of 2-and 4-month-old infants during a habituation task**, *Donna Fisher-Thompson, Gina Aguayo, Patricia A. Lynch, Julie Peterson, Kelly Such*
- B42 **The biasing nature of subject loss in an infant habituation task**, *J. Clare Bell, Alan Slater, Karen J. Thorpe*

11:00-12:50 a.m.

Georgia

Poster Session

Deafness and Early Development (Sa28)

- G01 **Early sign language memories: The emergence of maternal style in a deaf dyad**, *Tiffany A. West, Patricia J. Bauer*
- G02 **Self-recognition responses among deaf and hearing 18-month-old infants**, *Lynne S. Koester, Debara Sue Forest*
- G03 **Word learning strategies of young deaf children**, *Amy R. Lederberg, Amy K. Prezbindowski, Patricia E. Spencer*
- G04 **Representational abilities in the second year of life and the hearing status of child/mother dyads**, *Marc H. Bornstein, Ann M. Selmi, Oswald Maurice Haynes, Kathleen M. Painter, Eric S. Marx*
- G05 **Emotional availability and language gain in deaf/hard-of-hearing and hearing toddlers with hearing mothers**, *Leah J. Pressman, Sandra L. Pipp-Siegel, Christina Yoshinago-Itano, Lorraine F. Kubicek, Robert N. Emde*
- G06 **Early language and academic development in deaf children: Families with and without fathers**, *Sabina M. Low, Rosemary Calderon*
- G07 **Characteristics of hearing families and their young hearing-impaired children: Early intervention through preschool**, *Rosemary Calderon, Jill Y. Barges, Susan Sidman*

- G08 **Outcomes of early intervention for children with moderately-severe to profound hearing loss: Family, child, and program factors**, Rosemary Calderon, Jill Y. Bargones, Susan Sidman
G20 **Motoric constraints link manual babbling and early signs**, Adrienne Cheek, Kearsy Cormier, Christian Rathmann, Ann Repp, Richard P. Meier

Understanding Objects (Sa29)

- G09 **The emergence of an ontological distinction in infancy**, Rosemary A. Rosser, Rebecca Hill, Dana B. Narter
G10 **The origins of an intuitive biology in infancy**, Rebecca Hill, Rosemary A. Rosser
G11 **Can 9-month-olds identify by shape?**, Patrice D. Tremoulet, Nancy Lee, Alan M. Leslie
G12 **Object identification by feature conjunction in 12-month-olds**, Alan M. Leslie, Patrice D. Tremoulet, Kathleen Krauss, Nitin Mathur
G13 **Infants' representation of collections: "Not an object" or "A non-object individual"?**, Wen-Chi Chiang, Karen Wynn
G14 **Limits to object knowledge in 8-month-olds**, Karen Wynn, Wen-Chi Chiang
G16 **Handedness and haptic memory in 2- and 4-month-old infants**, Myriam Lhote, Arlette Streri
G17 **Transfer of information about object shape between hands in 2- and 4-month-old infants**, Arlette Streri, Christelle Lemoine, Agnès Bontemps
G18 **Ten-month-old infants' recognition of objects in contexts**, Christopher S. Monk, Trent N. Toepper, Charles A. Nelson

12:30-2:20 p.m.
Habersham

Discussion Session (Sa30)

We have never funded those who did not apply: Some obvious and less obvious secrets of grantmanship

Chair: Sarah L. Friedman

Participants: Joseph J. Campos, Sarah L. Friedman, Betsy Lozoff, Marshall M. Haith, Anita Sostek

12:30-2:20 p.m.
Ballroom South

Symposium (Sa31)

Effortful control and the development of self-regulation

Chair: Mary K. Rothbart

Concept and method in the study of effortful control, Mary K. Rothbart, Laura B. Jones

Focused attention in infancy and the development of effortful control: A longitudinal study from 8 to 22 months, Grazyna Kochanska, Kathleen T. Murray

The development of sustained attention: A longitudinal study from infancy to childhood, Carmen Gonzalez, Jose A. Carranza

Cognitive processes and effortful control, Claire B. Kopp

Discussant: Megan R. Gunnar

12:30-2:20 p.m.
Atlanta

Symposium (Sa32)

The two month revolution

Chair: Philippe Rochat

The newly objectified world of 2 month-olds, Philippe Rochat

Moving into the two-month revolution: An action-based account, Brian Hopkins

Reflections on N-shaped curves in early infancy: Regulated or re-organized development?, *Ronald G. Barr*
Behavioral changes around two months of age in a population of African hunter-gatherers, *Melvin Konner*

12:30-2:20 p.m.
Sherwood

Symposium (Sa33)

Early lexical development: From form to meaning

Chair: *Catharine H. Echols*

Early recognition of morphophonological alterations, *James L. Morgan*

Auditory implicit memory as a mechanism for lexical-phonological acquisition, *Cynthia L. Fisher, Barbara Ann Church*

The identification of words and their meanings in the transition into language, *Catharine H. Echols*

Babies' learning about words and non-word signals in a communicative context, *Amanda L. Woodward*

Discussant: *William E. Merriman*

12:30-2:20 p.m.
Ansley

Symposium (Sa34)

Development of visual pathways: What and where and more

Chair: *Scott P. Johnson*

Visual processing and action control in 6-month-olds: An HD-ERP Study, *Gergely Csibra, Mark H. Johnson*

The development and neural basis of representations for action, *Rick O. Gilmore*

A competition model of early exogenous orienting, *James L. Dannemiller*

Contributions from motion discrimination mechanisms to two-month olds' perception of illusory contours, *Scott P. Johnson*

Discussant: *Bennett I. Bertenthal*

12:30-2:20 p.m.
Marietta

Symposium (Sa35)

Prematurity and motor behavior

Chair: *Eugene C. Goldfield*

Dynamic organization of leg movements in VLBW infants, *Linda Fetters, Johanna Jonsdottir, Edward Z. Tronick*

Emergence of alternation patterns during nutritive sucking by full term and preterm infants, *Eugene C. Goldfield*

Motor responses of VLBW infants to caregiving: Effects of stimulus context, *Patricia T. Becker, Jane E. Brazzy, Patricia C. Grunwald*

Discussant: *Evelyn B. Thoman*

1:00-2:50 p.m.
Ballroom North

Poster Session

Perceiving the World (Sa36)

- B01 **Eight-month-old infants' perception of possible and impossible events**, *Leslie B. Cohen, Cara H. Cashon*
- B02 **Infants' perception of causal chains**, *Leslie B. Cohen, Leslie J. Rundell, Cara H. Cashon, Barbara A. Spellman*
- B03 **Infants' perception of bouncing-ball collisions**, *Lisa M. Oakes, Kathleen N. Kannass*
- B04 **The perception of the spatial structure of a cylinder in 5- and 8-month old human infants**, *Michael J. Kovšec*
- B05 **Infants' perception of textural changes induced by features and feature conjunctions**, *Evelin Bertin, Ramesh S. Bhatt*
- B06 **Infants' perception of 3-D information in static images**, *Ramesh S. Bhatt, Jamie L. Gilbert, Laura L. Dutton, Susan E. Waters*
- B07 **The detection of intermodal rate synchrony relations in 6- and 8-month-old infants**, *David Lewkowicz, Robert E. Lickliter*
- B08 **Infants discriminate colors on the basis of perceptual distance, not category**, *Peter Gerhardstein, Peggy Renner, Carolyn Rovee-Collier*

Contingencies (Sa37)

- B09 **3- to 5-month-olds prefer social contingency over eye contact**, *Lawrence A. Symons, Sylvia M. J. Hains, Lyana Sisca, Darwin W. Muir*
- B10 **Perception of self-generated contingencies in normal and autistic children**, *Judit Magyar, György Gergely*
- B11 **The role of infant-generated stimulus-contingencies in affect regulation and the development of attachment security**, *Orsolya Koós, György Gergely, Judit Gervai, Krisztina Ney, Ildikó Tóth*
- B12 **Infants' sensitivity to familiar contingencies in social interaction**, *Ann E. Bigelow*
- B13 **Maternal contingency and the socialization of emotions in early infancy**, *Èlène Léveillé, Louise Cossette*

Joint Attention (Sa38)

- B14 **Scaffolding in low-income mother-child dyads: Relations with joint attention and reciprocity**, *Jason T. Hustedt, C. Cybele Raver*
- B15 **Infants gaze following, joint attention, and vocabulary development**, *Pamela R. Rollins, Virginia A. Marchman, Jyutika Mehta*
- B16 **Early gaze following, receptive language, and subsequent child-caregiver joint attention episodes**, *Jessica Markus, Michael Morales, Peter C. Mundy*
- B17 **Nonverbal communication, joint attention, and attachment in infants at risk**, *Angelika Hartl Claussen, Peter C. Mundy, Jennifer C. Willoughby*
- B18 **The strategic use of gaze to face in joint attention**, *Vasudevi Reddy*
- B19 **Joint attention and toddler characteristics: Race, sex, and socioeconomic status**, *Terrill F. Saxon, John T. Reilly*
- B20 **Gaze following to moving and stationary targets at 3 and 6 months of age**, *Barbara A. D'Entremont*

Early Attention (Sa39)

- B22 **Facilitation, interference and auditory context: Are six-month-olds breaking tradition?**, *Lisa Pescara-Kovach, Janice M. Vidic, Robert A. Haaf*
- B23 **The development of the ability to disengage gaze**, *Phillipa R. Butcher, Alex F. Kalverboer*
- B24 **Intersensory redundancy guides infant attention**, *Lorraine E. Bahrick, Robert E. Lickliter*
- B25 **Individual differences in look duration, choice trial length, and paired-comparison task performance**, *John Colombo, W. Allen Richman, Julie E. Harlan, Janet E. Frick*
- B26 **Individual differences in infants' recognition of briefly presented visual stimuli**, *Janet E. Frick, John E. Richards*

- B27 **Adult's eyes trigger shifts of visual attention in human infants**, Bruce M. Hood, J. Douglas Willen, Jon Driver
- B28 **Peripheral stimulus localization during visual attention in 5-, 8-, 11-, and 14-week-old infants**, Sharon K. Hunter, John E. Richards
- B29 **Theoretical implications of infant distractibility in selective attention**, Jeffrey M. Lansink, John E. Richards
- B30 **Localizing the development of covert attention in infants using scalp event-related-potentials**, John E. Richards

Infant Crying (Sa40)

- B31 **Physiologic regulatory problems during infancy**, Katherine Rosenblum, Susan C. McDonough, Ellen Devoe, Sheila Gahagan, Arnold Sameroff
- B32 **Methodological issues in the acoustic analysis of infant crying**, Michael P. Robb, Alexander M. Goberman, Anthony T. Cacace
- B33 **The infant cry: Facial, vocal, and body action in the perception of distress**, Julia R. Irwin
- B34 **Fetal movement frequencies predict the amounts infants will cry**, Ian St James-Roberts, Praveen Menon-Johansson
- B35 **"Newborns' attention hypothesis" concerning a stimulus presentation during a stress situation**, Kiyobumi Kawakami, Kiyoko Takai-Kawakami, Yukiko Shimizu, Takumi Yanaihara
- B36 **Effects of temporal variation in acoustics on adults' proposed responses to infant crying**, Rebecca M. Wood, Gwen E. Gustafson

Development of Reaching (Sa41)

- B37 **The effect of developing reaching skill on infant perseverative reaching errors**, Melissa Wechsler Clearfield, Esther Thelen
- B38 **Object retrieval and interlimb coordination in infancy**, Kathryn E. Gadacz, Daniela Corbetta
- B39 **The roles of recent reaching history and looking behavior in intercepting a moving object**, Daniel J. Robin
- B40 **Evidence for the anticipation of material kind in infants' reaching for objects and portions of sand**, Gavin N. Huntley-Fenner, Donna Hanson
- B41 **Arm weight as possible control parameter in the development of prehension**, Raymond H. Wimmers, Geert J. P. Savelsbergh
- B42 **Reaching in the dark: Role of vision in selection of power and precision grips**, George Butterworth, Lucy Farnworth, Layla Esposito

1:00-2:50 p.m.

Georgia

Poster Session

Biological Bases of Behavior (Sa42)

- G01 **Event-related brain potentials depict delayed development of cerebral inhibition processes among infants with Down Syndrome**, Jennifer Hill Karrer, Rathe S. Karrer
- G02 **The relationship of looking time and heart rate responses in four-month-olds**, Gregory J. Austin, W. Keith Berg
- G03 **Time course of adrenocortical activity in mothers and young children**, Mary J. Ward, Shelley Lee, Evelyn G. Lipper
- G04 **Physiological response to an emotional challenge is related to parental care received in juvenile Goeldi's monkeys (Callimico Goeldii)**, Andrea Dettling, Chris R. Pryce, Robert D. Martin
- G05 **Visual activity in relation to head movement in infants with leukomalacia**, Isabelle Carchon, Joëlle Provasi
- G06 **Rhythmical synchronisation between 2- and 4-year-old children**, Joëlle Provasi
- G07 **Visual evoked potential measure of texture discrimination in infants: A longitudinal study**, E. Eugenie Hartmann, Mary M. Conte, Keith P. Purpura
- G08 **Three- and six-month-old infants' haptic processing and discrimination of texture**, Mary Tsonis, Dale M. Stack

- G09 The relationship between cardiac vagal tone at two and six weeks and state behavior at six weeks, *Norman Turk*
- G10 EEG index of motor inhibition in 11-month-old infants, *Tatiana A. Stroganova, Elena V. Orekhova, Irina N. Posikera*
- G19 Essential fatty acid formula supplementation and neuromotor capabilities in nursery-reared rhesus monkey neonates, *Maribeth Champoux, Joseph R. Hibbeln, Courtney Shannon, J. Dee Higley, Norman Salem, Jr., Stephen Suomi*
- G20 Orthostatic tilt at 5 months: A twin study on autonomic control, *Etienne Dubreuil, Bernard Boulerice, Daniel Pérusse, Robert O. Pihl*

Topics in Temperament (Sa43)

- G11 Temperamental features of infants who suffered early visual deprivation, *Marina Tsetline, Tatiana A. Stroganova*
- G12 Relations between state at 6 weeks and frustration reactivity at 5 and 10 months, *Samuel P. Putnam, Norman Turk, Cynthia A. Stifter*
- G13 Mothers' and fathers' responsiveness to infant distress: Relations with perceived infant temperament and infant responsiveness, *Mari Anne Paraskevas, Patricia Hrusa Williams*
- G14 Mothers' reports of the salience of infant personality traits, *Katherine H. Karraker, Melinda B. Maher, Brady Reynolds*
- G15 Who's controlling whom?: Infant habituation rate and toddler temperament uniquely contribute to maternal play behavior, *Wallace E. Dixon, Jr., Peg Hull Smith, Laura Hayden, Jennifer L. Myers, Kristen M. Bell*
- G16 Sociability and cognitive processing: Linkages between temperament, habituation, and sequential memory, *Peg Hull Smith, Wallace E. Dixon, Jr., Chinnon M. Jaquay, Tim Loboschewski, Kristen M. Bell*
- G17 Differential maternal treatment of twins: Does temperament make a difference?, *Lisabeth F. DiLalla, Sylvia D. Jones, E.G. Bishop, Sefali Bhutwala*

3:00-4:20 p.m.
Ballroom South

ISIS Awards and Business Meeting (Sa44),

including the 1998 ISIS Dissertation Award and Young Investigator's Award as well as special recognition to Carolyn Rovee-Collier for her contributions as editor of *Infant Behavior and Development*.

4:30-6:00 p.m.
Ballroom South

Presidential Address (Sa45)

Grounded in the world: Developmental origins of the embodied mind

Chair: *Carolyn Rovee-Collier*

Speaker: *Esther Thelen*

6:00-8:00 p.m.
Upper Lobby

Presidential Reception

Upper Lobby, Sheraton Colony Square Hotel. Light snacks will be provided. A cash bar will be available. *We thank Indiana University for contributing to this event.*

Sunday, April 5

8:30-9:50 a.m.
Ballroom South

Discussion Session (Su01)

Sunday Morning Breakfast Discussion

Limited space available. Signup at the ICIS registration desk in the Sheraton Colony Square Hotel.

Ronald G. Barr, Crying and emotional development in infants: Is crying a sign, a signal, both or neither?

Gavin Bremner, Alternative conceptualisations of infant development: Direct realist, dynamical systems, and cognitivist approaches

Claire D. Coles, Primary versus secondary disabilities: Understanding development in infants of substance abusers

Carol O. Eckerman, Integrating human and non-human infancy research

Peter Hobson, Relationships in infancy: What are they?

Susan H. Landry & Karen E. Smith, Developmental frameworks for early parent-infant intervention research

Charles A. Nelson, Neuroimaging and electrophysiology in infant development

J. Steven Reznick, Sharing the fruits of our labors: How should we disseminate research findings to a broader audience?

Scania de Schoen, Functional cortical plasticity for cognitive competences in infancy: What do we hope, what do we believe, and what do we know?

Sandra E. Trehub, Songs as caregiving tools

Claes von Hofsten & Rachel K. Clifton, Aspects of infant reaching behavior

Tedra A. Walden, Daycare, Santa Claus, and grandma: Parents' strategies for controlling children's emotional reactions

10:00-11:50 a.m.
Habersham

Symposium (Su02)

Speech perception and word learning: New approaches

Chair: *Janet F. Werker*

Phonetic perception and word learning: Evidence for continuous and discontinuous changes, *Janet F. Werker, Christine Stager, Judith Pegg*

How infants begin to find and remember the sound patterns of words, *Peter Jusczyk*

Emerging understanding: Rapid gains in the speed and efficiency of word recognition by infants in the second year, *Anne Fernald, Daniel Swingley, John P. Pinto*

Discussant: *Richard N. Aslin*

10:00-11:50 a.m.
Atlanta

Symposium (Su03)

Adult-infant interaction: Observations of everyday behavior in diverse cultural settings

Chairs: Axel Schölmerich, Michael E. Lamb

Comparing contrasting developmental niches: The impact of context and age on similarities and differences, Birgit Leyendecker

Analyzing the co-occurrence of mother-infant interactive behaviors at 3 months of age in middle and lower class Quebecois families, Réjean Tessier

Culture and early infancy among central African farmers, foragers, and Euro-Americans, Barry Hewlett

Sequential analysis using hierarchical log-linear modeling: Caretaker response to infant distress in different ecological niches, Axel Schölmerich, Holger Wessels

Discussant: Gilda Morelli

10:00-11:50 a.m.
Sherwood

Symposium (Su04)

Developmental interplay between action and cognition in infancy

Chair: Daniela Corbetta

Moving thoughts: Theoretical considerations for action-cognition couplings during infancy, J. Paul Boudreau

Motor memory influences performance in the A-not-B task, Frederick J. Diedrich, Esther Thelen, Linda B. Smith

Why do infants regress to two-handed reaching at the end of the first year?, Daniela Corbetta

Step counter: Quantifying infants' everyday walking experience, Karen E. Adolph, Anthony M. Avolio, Tracy M. Barrett, Priyadarshree Mathur, Anne M. Murray

Discussant: Claes Von Hofsten

10:00-11:50 a.m.
Ansley

Symposium (Su05)

Behavioral dysregulation in infancy: Crying, feeding, sleeping difficulties and the caretaking environment

Chair: Martin Maldonado-Durán

Does maternal depression influence feeding, sleeping, and crying patterns in healthy 2 month-old infants, Maria Ramsay, Erika Gisel, Jane McCusker, Francois Bellavance

Excessive infant crying and later behavior problems: Findings of the Bavarian longitudinal study (BLS), Dieter Wolke, Renate Meyer

Excessive crying, feeding, and sleeping problems: Commonalities among preverbal syndromes of behavioral dysregulation, Mechthild Papoušek

Excessive and persistent crying: Correlation with infant psychopathology and the caretaking environment, Martin Maldonado-Durán, Christine Moody, Richard Holigrocki

10:00-11:50 a.m.

Marietta

Symposium (Su06)

New directions in the microanalysis of parent-infant interaction

Chair: *Marguerite Stevenson Barratt*

Early parent-infant interaction as a co-regulated process, *Marguerite Stevenson Barratt*

The historical character of the social communication systems, *Maria Lyra*

Automated face coding: A computer-vision based method of facial expression analysis in parent-infant interaction, *Adena J. Zlochower, Jeffrey F. Cohn, James Jenn-Jier Lien, Takeo Kanade*

Joint attention and attentional regulation at 6-months, *Kyle L. Snow*

Discussant: *Alan Fogel*

10:00-11:50 a.m.

Ballroom North

Poster Session

Understanding Intentions (Su07)

- B01 The development of intentions: Understanding people and their actions, *Maria Legerstee*
- B02 Twelve-month-olds can infer a goal for an incomplete action, *Gergely Csibra, György Gergely, Margaret Brockbanck, Szilvia Bíró, Orsolya Koós*
- B03 Inferring the unseen goals of a non-human agent, *Susan C. Johnson, Amy Booth, Kirsten O'Hearn*
- B04 Eye-gaze reveals another's attention and intention: A theoretical account of the ontogeny of eye-gaze use, *Kang Lee, Lawrence A. Symons, Sylvia M. J. Hains, Darwin W. Muir*
- B05 Sex differences in parent perception of infant intentionality, *Stephanie A. Aubry, Nicole E. Eldridge, J. Steven Reznick*
- B06 Parents can predict infant intentional behaviors, *J. Steven Reznick, J. Josephine Fueser, Christine Fingado, Nicole Straight*
- B07 Infant comprehension of looking as intentional behavior, *Rechele Brooks, Albert J. Caron, Samantha C. Butler*

Cognitive Development (Su08)

- B08 Infant behavior during impossible events without occlusion, *Eric Peterson, Bruce M. Hood*
- B10 Understanding physical causality in infants and chimpanzees, *Jennifer A. Warren, Michael Tomasello*
- B11 Infants' physical reasoning about containment and occlusion: A surprising decalage, *Susan J. Hespos*
- B12 Infants' encoding of grasping by humans versus machines, *Amanda L. Woodward*
- B13 Adaptability in infants' means/ends actions, *Daniel D. McCall*
- B14 A new meta-analysis of the A-not-B error, *Stuart Marcovitch, Philip D. Zelazo*
- B15 Gesture organization in an A-not-B situation with 6 to 11 month-old infants: Two pilot studies, *Roger Lécuyer, Pilar Rincom, James Rivière*
- B16 Infant displacement and table displacement object search skills in infants 8 and 10 months of age, *Jonathan E. Roberts, Martha Ann Bell, Sabrina Pope*

Categorization and Reasoning (Su09)

- B17 5-month-old infants distinguish between inert and self-moving inanimate objects, *Lisa E. Kaufman*
- B18 9-month-old infants' reasoning about collision events: Should all objects be displaced when hit?, *Lisa E. Kaufman*
- B19 Categorical explicitness in a sequential touching task, *Amy K. Crigger, Lisa M. Oakes, Peter Thompson*
- B20 TouchStat: A Monte Carlo program for calculating sequential touching probabilities, *Wallace E. Dixon, Jr., Mark L. Merry, Timothy Woodard*

- B21 **More than meets the eye: Infants' categorization skills go beyond an understanding of conceptual similarities between items**, Jeannette M. Whitmore, Wendelyn J. Shore, Peg Hull Smith, Kristin L. Jordan, Wallace E. Dixon, Jr.
- B23 **Infants' categorization of men and women from motion-carried information**, Ann E. Ellis
- B24 **You've got to roll with it, baby: The effect of functional parts on infants' categorization**, David H. Rakison, Leslie B. Cohen

Mother-Infant Dyads (Su10)

- B25 **Styles of interaction in low-income mother-infant dyads**, Catherine S. Tamis-LeMonda, Mark Spellmann, Joanne I. Roberts, Svetlana Ustinova, Poonam Ahuja
- B26 **Maternal stress and mother-child interactions**, Dayana P. Jimenez, Lisa Baumwell, Catherine S. Tamis-LeMonda
- B29 **Visual and vocal behaviors of incarcerated mothers and their infants: A comparison with two groups of non-incarcerated mothers and infants**, Esther M. Tesh, Diane H. Holditch-Davis, Catherine I. Fogel, Margaret S. Miles
- B30 **Emotional and linguistic features of parent-child interaction: Associations with risk status and developmental outcome at 2 years**, Ina F. Wallace, Lisa Seago
- B31 **Co-regulated patterns of communication in mother-infant dyads: Contributions of mothers' feelings of efficacy and infant temperament and vagal tone**, Christin L. Porter, Adrienne E. Porter, Todd E. Christensen, Tennille Morgan
- B32 **Her heart is in the right place: A mother with dextrocardia exhibits the left side cradling bias**, Brenda K. Todd, George Butterworth
- B34 **The role of maternal personality in the mother-infant teaching interaction**, Joan T. Bihun, Danielle R. Strawn, Marcie Pfeifer
- B35 **The story of neonatal imitation: New facts and old conclusions**, Mikael Heimann
- B36 **Maternal input: Its role in infant gesture communication**, Heather L. Tencer, Jana M. Iverson

Object Individuation (Su11)

- B37 **Object individuation and event mapping: Infants' use object features**, Teresa G. Wilcox, Amy M. Putthoff
- B38 **Object individuation and event mapping: Infants' use of object speed**, Amy M. Putthoff, Teresa G. Wilcox
- B39 **Object color, function, and individuation in infancy**, Catherine Chapa, Teresa G. Wilcox
- B40 **Object individuation: Evidence from a new reaching time method**, Meredith Prevor, Gretchen A. Van de Walle, Susan Carey
- B41 **Reaching for objects in a box: Object individuation by 12-month-old infants**, Claudia Uller, Alan M. Leslie, Susan Carey
- B42 **The violation of expectancy method: When adults fail to see the trick**, Susan Carey, Bryan Bergert

10:00-11:50 a.m.

Georgia

Poster Session

Words and Concepts (Su12)

- G01 **Does the availability of verbal labels facilitate sorting behavior in 16- and 22-month-olds?**, Henry N. Ricciuti, Anne E. Ricciuti, Marney Thomas
- G02 **When all's said and sorted: Vocabulary and categorization in 16- to 32-month-olds**, Jennifer A. Schwade
- G03 **New words for new things: The relationship between novel labels and twelve-month-olds' categorization of novel objects**, Anne L. Fulkerson, Robert A. Haaf
- G04 **Labeling may help infants construct kind concepts**, Fei Xu
- G20 **Novel nouns highlight basic over superordinate categories for 18-month-olds**, Rachel K. Baker, Diane Poulin-Dubois, Susan A. Graham
- G21 **Cognitive foundations of word learning**, Kim Plunkett, Antonia F. Hamilton, Graham Schafer

Social Referencing (Su13)

- G05 **"I don't care what you say, I am not touching that snake": Biologically relevant fear and infant social referencing,** *Tedra A. Walden, Christine Passaretti*
- G06 **Effect of contingent parental responsivity on infant behavior and affect,** *Kimberly L. Carpenter, Tedra A. Walden*
- G07 **Gazing as a determinant of early social referencing,** *Hildie Cohen, Jane Yang, Tricia Striano, Philippe Rochat*
- G08 **Infant social referencing: A meta-analytic review,** *Hilary B. Weinger, Moshe Anisfeld*
- G19 **Navigating the ground ahead: Changes in social referencing in relation to development of crawling,** *Susan Pfister, Marion A. Eppler*

Jealousy and Empathy (Su14)

- G09 **Is empathy an emotionally regulated response?,** *Kathryn L. Gill, Susan E. Dedmon, Amy L. Clark*
- G10 **Jealousy in the first year: Evidence of early interpersonal awareness,** *Riccardo Draghi-Lorenz*
- G11 **Mother-child relationship in infancy and children's response to maternal distress at 22 months,** *Nicole M. Schall, Grazyna Kochanska*
- G12 **Jealousy in infants: Measuring the social validity of laboratory research,** *Wendy E. Roth, Jacob L. Gewirtz, Christine Collado, Sandra Garcia*
- G18 **Infant jealousy is predicted by depressed mothers' interaction styles,** *Sybil Hart, Tiffany M. Field*

Processing Faces (Su15)

- G13 **Priming for faces in infants and adults: Electrophysiological evidence,** *Sara J. Webb, Charles A. Nelson, Bonny Donzella*
- G14 **Lack of preference for the paternal face in four-month-olds,** *Cynthia D. Ward, Paula M. Phillips, Robin Panneton Cooper*
- G15 **The effect of early visual deprivation on the development of face processing,** *Sybil S. Geldart, Catherine J. Mondloch, Daphne Maurer, Scania de Schonen, Terri L. Lewis, Henry P. Brent*
- G16 **Timing visual pursuit to investigate newborn interest in a face pattern,** *Megan A. Easterbrook, Diane Amendola*
- G17 **Face perception in young infants,** *Terri L. Lewis, Catherine J. Mondloch, D. Robert Budreau, Daphne Maurer, James L. Dannemiller, Benjamin R. Stephens, Kathleen A. Kleiner*

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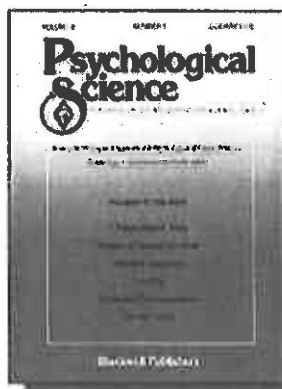
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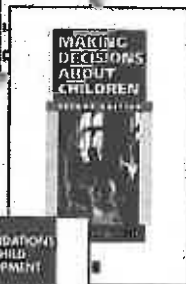
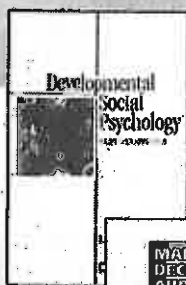
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