14th Biennial International Conference on Infant Studies

Chicago, Illinois
May 05-08, 2004

ORGANIZERS:
Dr. George F. Michel &
Dr. Linda Camras
The Foundations of Mind
The Origins of Conceptual Thought
JEAN MATTER MANDLER
This book offers a theory of how human conceptual life begins, and shows how perceptual information becomes transformed into concepts. Drawing on extensive research, Mandler describes the development of preverbal concept formation, inductive inference, and recall, and explains how these processes form the conceptual basis for language and adult thought. (Oxford Series in Cognitive Development) 2004 376 pp.; 5 halftones, 10 line illus. 0-19-517200-0 $49.95

Autism: Mind and Brain
Edited by UTA FRITH and EISABETH L. HILL
Autism: Mind and Brain provides a comprehensive overview of the latest research on autism and highlights new techniques that will progress future understanding. With contributions from leaders in autism research, this book describes the latest advances in research, discusses ways forward for future research, and presents new techniques for understanding this disorder. 2004 322 pp.; 41 halftones & line illus. 0-19-853292-4 paper $59.50 0-19-853293-2 cloth $139.50

The Cradle of Thought
Exploring the Origins of Thinking
PETER HOBSON
"There is much to admire in this impressively readable book, and Hobson is both an outstanding scholar and passionate about his subject. His human and clinical concern for people comes through clearly in his writing, and his book will be a welcome contribution to the debate in cognitive development." —Simon Baron-Cohen, Merton
"How does a child develop the capacity to think? In particular, how does it develop a sense of self, the existence of other persons with minds of their own, and of its relationship to these others? . . . For Hobson, the key lies in that one word, relationship. . . Any parent reading his account will recognize it makes sense." —Steven Rose, Sunday Times (London) 2004 304 pp. 0-19-521954-6 $35.00

What Is Language Development?
Rationalist, Empiricist, and Pragmatist Approaches to the Acquisition of Syntax
JAMES RUSSELL
This is the first balanced account of the key competing theories of language development, allowing students and researchers interested in language to evaluate the competing theories and form their own opinions. September 2004 384 pp.; 83 figures 0-19-263248-5 cloth $149.50 0-19-853086-2 paper $59.50

The Essential Child
Origins of Essentialism in Everyday Thought
SUSAN A. GELMAN
"Susan Gelman's The Essential Child is both deep and accessible. She does the field a great service by pulling together her truly remarkable research program into one integrated story. In doing so, she shows how the data that support the claim that young children have essentialist commitments challenge deeply held views about the nature of young children's thinking and about the nature of human concepts in general. Anybody concerned with understanding conceptual development and anybody concerned with understanding human concepts should read this book."
—Susan E. Carey, Professor of Psychology, Harvard University
"This is a path-breaking book on children's conceptual development with important implications for virtually all of cognitive science." —Douglas Medin, Professor of Psychology, Northwestern University (Oxford Series in Cognitive Development) 2003 392 pp.; 19 halftones & line illus. 0-19-515406-1 $49.95

Applied Longitudinal Data Analysis
Modeling Change and Event Occurrence
JUDITH D. SINGER and JOHN B. WILLET
2003 672 pp.; 81 line illus. 0-19-515296-4 $65.00

Early Category and Concept Development
Making Sense of the Blooming, Blossoming Confusion
Edited by DAVID H. RAKISON and LISA M. OAKES
"This is about as close as it gets to a perfect 'state of the art' volume, in which all of the leading researchers of infants' and young children's categorization skills summarize their most recent work and thoughts." —Michael Tomasello, Ph.D., Co-Director, Max-Planck Institute for Evolutionary Anthropology
"This collection is an illustration of cognitive science at its best." —Yale University 2003 464 pp.; 51 halftones & line illus. 0-19-514295-4 cloth $70.00 0-19-514294-2 paper $35.00

The World of Deaf Infants
A Longitudinal Study
KATHRYN P. MEADOW-ORLANS, PATRICIA E. SPENCER, DONALD F. MOORES, LYNNE SANFORD KOESTER, and ROBERT H. MAC TURK
May 2004 304 pp.; 21 line illus. 0-19-514790-1 $45.00

Revealing the Inner Worlds of Young Children
The MacArthur Story Stem Battery and Parent-Child Narratives
Edited by ROBERT N. EMDE, DENNIS P. WOLF, and DAVID OPPEMHEIM 2003 407 pp.; 10 line illus. 0-19-515404-5 $59.95

A Choice Outstanding Academic Title for 2004
The Cultural Nature of Human Development
BARBARA ROGOFF
2003 448 pp.; 73 b/w halftones & line illus. 0-19-513133-9 $25.00

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R2 eye-trac®
Theories of Infant Development
Edited by J. GAVIN BREMNER, ALAN SLATER
Lancaster University; Exeter University

"This excellent volume will be of interest not just to infancy researchers and their students, but to all scientists who adopt a developmental perspective to understand human psychological functioning."
Jeffrey J. Lockman, Professor of Psychology, Tulane University

This volume provides an authoritative, up-to-date survey of theories of infant development. The contributors, who are all leaders in their field, present a wide range of theoretical perspectives on development in infancy. Each one provides advanced treatment of the issues and addresses current theoretical controversies in their area of expertise.

The book is divided into three major sections, covering the development of perception and action, cognitive development, and social development and communication. Within these sections, each of the book’s twelve chapters presents a specific theoretical approach or reviews contrasting theories in a particular area. The editors provide a preface linking and contextualizing the material.

NEW IN PAPERBACK! The Perfect Books for Use in Your Course

THE BLACKWELL HANDBOOKS OF DEVELOPMENTAL PSYCHOLOGY
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Blackwell Handbook of Infant Development
Edited by J. GAVIN BREMNER, ALAN FOGEL
Lancaster University; University of Utah
FEBRUARY 2004 – 6.75 X 9.75 – 702 PAGES
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Blackwell Handbook of Childhood Social Development
Edited by PETER SMITH, CRAIG HART
Goldsmiths College, London; Brigham Young University
FEBRUARY 2004 – 6.75 X 9.75 – 688 PAGES
0-631-21753-3 – PAPERBACK

Blackwell Handbook of Childhood Cognitive Development
Edited by USHA GOSWAMI
University of Cambridge
FEBRUARY 2004 – 6.75 X 9.75 – 736 PAGES
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ICIS\textsuperscript{2004}
XIV Biennial

ISIS
International Society on Infant Studies

Past President: Arnold Sameroff
Incoming President: Joseph Campos
Conference Chairs: George F. Michel
Linda Camras
ICIS 2004

14th Biennial International Conference on Infant Studies

PROGRAM

Chicago, Illinois
May 05-08, 2004
Palmer House Hilton Hotel
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Message from ICIS 2004 Co-chairs

Welcome to each and every delegate at the XIV biennial conference of the International Society on Infant Studies. This year’s conference features a variety of presentation formats, including keynote addresses, dialogues, breakfast round-table discussions, symposia, and posters. We hope that the conference will provide the intellectual stimulation and collegial engagement needed to promote an understanding of infants appropriate for the 21st Century.

After Bennett Bertenthal’s keynote address on Wednesday, please join us for a welcoming reception (6:15 in the Red Lacquer Room) for hors d’oeuvres and drinks.

We are very grateful to many people who helped make ICIS 2004 Chicago happen.

- We benefited from the advice and wisdom of the chairs and co-chairs of ICIS 1998 (Atlanta), ICIS 2000 (Brighton), ICIS 2002 (Toronto).
- Members of the ISIS executive board (especially, Arnold Sameroff, Rachel Keen, and Joseph Campos) provided encouragement and advice.
- John Kozak, Executive Vice President of Academic Affairs, DePaul University provide logistical support.
- Johnson & Johnson Pediatric Institute provided a generous contribution to our educational program.
- Lawrence Erlbaum Associates contributed to the educational program.
- Gerber Foods sponsored a special invited symposium.
- Amber Tyler created the web-site for the conference, coordinated the volunteer help, supervised registration, exhibits, and advertisements.
- Ilona Chmiel, and Sarah Fatani created and managed the Access database and mass e-mails and Christiana Shafer provided extra “hands and feet”.
- Ian Hall created the program CD and web-page.
- Mindy Hall planned the gala reception at the Art Institute (although that had to be canceled) and arranged for the entertainment during the “Welcome” reception.
- Ken Schneider supervised our interaction with the Hotel to ensure that we obtained the very best service.
- A very dedicated volunteer group of DePaul University undergraduate students staffed the conference registration and help desks
- Panel chairs and reviewers (whose names are listed on page iii) helped us create an excellent program.
- Finally, we thank all of the presenters at ICIS 2004, who are the excellent program!

George F. Michel & Linda C. Camras, ICIS 2004 co-chairs
Review Panels

1. Motor and Sensorimotor Processes
   Chair: Beverly D. Ulrich
   Reviewers:
   David Anderson, Victoria Haehl, Annick Ledebt, Karl Rosengren, Geert Savelbergh, Mark Schmuckler

2. Biological Processes
   Chair: Susan L. Andersen
   Reviewers:
   Patricia Boksa, Miles C. Cunningham, Michael DeBellis, Anthony A. Grace, Jerome Kagan, David McKinzie

3. Perception and Attention
   Chair: Lorraine Bahrick
   Reviewers:
   Rick Gilmore, Roberta Golinkoff, David Lewkowicz, Robert Lickliter, Amy Needham, John Richards, Arlene Walker-Andrews

4. Communication and Language
   Chair: Kathy Hirsh-Pasek
   Reviewers:
   Lauren Adamson, Nameera Akhtar, Fred Genesee, LouAnn Gerken, Roberta M. Golinkoff, George Hollich, Mutsumi Imai, Jenny Saffran, Lynne Vernon-Feagans, Virginia Valian

5. Cognition, Memory, and Learning
   Chair: Harlene Hayne
   Reviewers:
   Lorraine Bahrick, Rachel Barr, Patricia Bauer, Judy DeLoache, Adele Diamond, William Fifer, William J Friedman, Scott Johnson, Andrew Meltzoff, Yuko Munakata, Lisa Oakes, Olivier Pascalis, Carolyn Rovee-Collier, Catherine Weir

6. Social Development
   Chair: Darwin Muir
   Reviewers:
   Alan Fogel, Maria Legerstee, Jacqueline Nadel, Philippe Rochat, Dale M. Stack, Tricia Striano, E. Z. Tronick, Arlene Walker-Andrews
7. Emotional Development  
*Chair:* Cynthia A. Stifter  
Reviewers:  
Julia M. Braungart-Reiker, Joseph Campos, Susan Crockenberg, Alan Fogel, Hill Goldsmith, Sarah Mangelsdorf, Daniel Messinger, Ginger Moore, Tedra Walden, M. Katherine Weinberg

8. High Risk and Pediatric Issues  
*Chair:* Ian St James-Roberts  
Reviewers:  
Ronald G. Barr, Janet Constantinou, Tiffany Field, Vivette Glover, Frank Oberklaid, Hellgard Rauh, Edward P. Riley, Mary L. Schneider, Dieter Wolke, Sandy Zeskind

9. Psychopathology & Developmental Delay  
*Chair:* Larry Gray  
Reviewers:  
Bennett Bertenthal, Barbara Danis, Carri Hill, Marisha Humphries, Kate Keenan, Tom Keller, Matt Longo, Kalina Michalska, Jeff Salt

10. Early Environments and Social Policy  
*Chair:* Janet DiPietro  
Reviewers:  
Margaret O'Brien Caughy, Deborah Perry, Marian Sigman

11. Undergraduate Research  
*Chair:* Wallace E. Dixon, Jr.  
Reviewers:  
Martha Arterberry, Christine Moon, Peg Hull Smith, Diane E. Wille

12. Other  
*Chair:* David Moore  
Reviewers:  
Gerald McRoberts, Wendy Ostroff, Melanie Spence, Michael Weiss
General Information

ICIS\textsuperscript{2004} XIV BIENNIAL

Registration Hours

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Wednesday</td>
<td>9:00am - 5:00pm</td>
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<td>Thursday</td>
<td>9:00am - 5:00pm</td>
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<tr>
<td>Friday</td>
<td>9:00am - 12:00pm</td>
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Conference Abstracts

Conference abstracts on CD-ROM can be found in your delegate bags. These CDs, which are self-running, should boot up immediately. All abstracts are in HTML format for ease of viewing. If the CD fails to open automatically, please navigate to your CD-ROM directory and open the file named “index.html” to view the CD-ROM content.

Exhibitors

The Exhibitors, located in the Empire Room, will be open:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Wednesday</td>
<td>11:00am – 5:30pm</td>
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<tr>
<td>Thursday</td>
<td>9:00am – 5:00pm</td>
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<td>Friday</td>
<td>9:00am – 5:00pm</td>
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<tr>
<td>Saturday</td>
<td>9:00am – 5:00pm</td>
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Messages

A message board for the use of delegates is located near the registration desk.

Photocopying, Faxing, and Web Access

The Palmer House Hilton Business Center, located on the 7th floor, provides secretarial, photocopying, word processing, document scanning, fax transmission, printing, courier service, etc. services and is open Monday-Friday, 6:00am – 10:00pm and Saturday & Sunday, 8:00am – 4:00pm.

Other Facilities

The Palmer House has a fitness club with a complete range of exercise equipment (including treadmill, lifecycle, and stairmaster machines), a heated, indoor recreational pool, sauna, whirlpool and steam bath. There are also four food and beverage dining outlets (French Quarter, Big Downtown, Trader Vic’s, Windsor’s Lobby Bar) and several coffee and fast-food outlets in the arcade. The Palmer House is located next to the city’s subway system and is walking distance from major shopping, recreation and entertainment venues.
Hotel Floor Plan
The Palmer House
Hilton

Lobby Level

<table>
<thead>
<tr>
<th>ROOM</th>
<th>DIMENSIONS LAW</th>
<th>SQUARE FEET*</th>
<th>CEILING HEIGHT</th>
<th>THEATRE</th>
<th>SCHOOLROOM (2/5)</th>
<th>SCHOOLROOM (3/5)</th>
<th>BANQUET</th>
<th>RECEPTION**</th>
<th>CONFERENCE</th>
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<tr>
<td>Empey Room</td>
<td>118x53</td>
<td>5,800</td>
<td>23</td>
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<td>350</td>
<td>509</td>
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*Usable square footage
**Capacities take into consideration placement of bars, cocktail rounds, food stations and experience of hotel
# Conference Schedule at a Glance

**Wednesday May 5, 2004**

<table>
<thead>
<tr>
<th>Time</th>
<th>Empire Room</th>
<th>Adams Room</th>
<th>Monroe Room</th>
<th>Parlor H Room</th>
<th>Crystal Room</th>
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<tbody>
<tr>
<td>9:00</td>
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<td></td>
<td></td>
<td></td>
<td>8:00-10:30 Touch Research Institute (PP, SP OP)</td>
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<td>10:00</td>
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<td></td>
<td>8:00-11:00 Les Cohen’s “Habit 2000” meeting (PP)</td>
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<tr>
<td>11:00</td>
<td>11:00-12:50 Symposium <em>Aslin</em> The Lexical/Phonetic Interface in Infancy: Coping With Multiple Sources Of Variability (PP)</td>
<td>11:00-12:50 Symposium <em>Messinger</em> Infant Smiles: Production, Perception, and Prediction (PP, OP)</td>
<td>11:00-12:50 Symposium <em>Waxman</em> The Conceptual Power of Naming: Categorization, Individuation and Inductive Inference (PP)</td>
<td>11:00-12:50 Dialogue Autism &amp; theory of mind, <em>Catherine Lord</em> and <em>Helen Tager-Flusberg</em></td>
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<tr>
<td>12:00</td>
<td>11:30-4:00 Posters and Exhibitors</td>
<td>1:00-2:50 WAIMH Symposium <em>Cabrera and Roggman</em> The ecology of father involvement: Families, parental involvement, programs and neighborhoods (PP, OP)</td>
<td>1:00-2:50 Symposium <em>Jones</em> Is my mommmy sad, nervous, or interested in another baby? What maternal mood and direction of attention mean to infants (PP)</td>
<td>1:00-2:50 Symposium <em>Zelazo</em> New Perspectives on Autism: The Role of Stress (PP, SP, OP, LCD Projector)</td>
<td>1:00-2:50 Symposium <em>Baillargeon Renee and Wang</em> Context-specificity effects in infants’ learning and reasoning about events (PP, OP)</td>
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<tr>
<td>2:00</td>
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<td>3:00-4:50 Symposium <em>Lumeng</em> Two Nutritive Sucking Systems in Human Infants (PP, OP)</td>
<td>3:00-4:50 Symposium <em>Bendersky</em> The Relation of Facial Expressions to Emotion Eliciting Situations (PP, SP, OP)</td>
<td>3:00-4:50 Symposium <em>Courage</em> Perspectives on Infants’ Visual Attention: Developmental Change and Individual Differences (PP)</td>
<td>3:00-4:50 Symposium <em>Dek</em> Embodied Modeling Approaches To Infant Social and Language Development (PP)</td>
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<td>4:00</td>
<td>Red Lacquer Room</td>
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<tr>
<td>5:00</td>
<td>5:00-6:00 Keynote address, <em>Bennett Bertenthal</em> Neurobiological perspective on the perception and understanding of actions. Chair: Linda Camras (PP)</td>
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<tr>
<td>7:00</td>
<td>6:15-9:00 Welcoming Reception (complimentary hors d’oeuvres and drinks)</td>
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<td>7:00-8:30 Exec. Com Dinner (Room to be announced)</td>
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<td>Registration area</td>
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<td>Parlor H Room</td>
<td>Crystal Room</td>
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<tr>
<td><strong>7:00</strong> Jumb-a-jee Breakfast (Complimentary)</td>
<td>7:20-8:50 Roundtable Breakfast discussion</td>
<td>7:20-8:50 Roundtable Breakfast discussion</td>
<td>7:20-8:50 Roundtable Breakfast discussion</td>
<td>7:20-8:50 Roundtable Breakfast discussion</td>
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<td><strong>8:00</strong> Lickliter, Patricia Integrating Research on unimodal and multimodal perception: status, and strategy</td>
<td>Hirsch-Pasek, Oulinkoff, Galinsky infant research and the public eye: Do we have a role in translating research for public consumption</td>
<td>Granier-Deferrre, Schaf, DeCasper Are There General Principles Regarding The Effects of Prenatal Sensory Experience?</td>
<td>7:30-8:50 Breakfast dialogue “Issues in Emotional Development” with Joseph Campos &amp; Alan Fogel</td>
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</tr>
<tr>
<td><strong>9:00</strong> Empire Room Adams Room</td>
<td>9:00-10:50 Symposium Best and Burnham Infants' Perception of Native and Non-native Vocalic Properties: Vowels and Tones (OP, PP)</td>
<td>9:00-10:50 Symposium Slaughter Young children's understanding of the symbolic nature of objects and pictures (FP, OP)</td>
<td>9:00-10:50 Invited Symposium Woodward and Needham What infants Learn by Doing (FP)</td>
<td>9:00-10:50 Symposium Hollich Do you see what I hear? Infants' use of audio-visual synchrony during language development (FP)</td>
<td>9:00-10:50 Symposium Doutts Cultural Contexts of Infant-Caregiver Interactions (FP, OP)</td>
</tr>
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<td><strong>10:00</strong></td>
<td>10:00-11:50 Symposium Liszkowski and Carpenter Exploring the Role of Infancy Functions, Motives, And Its Relationship To Development (OP, PP)</td>
<td>11:00-12:50 Symposium Lewkowicz Perception, Learning And Recall Of The Serial Organization Of Events (PP)</td>
<td>11:00-12:50 Symposium Onishi Exploring precursors to theory of mind in infancy with non-verbal tasks (FP)</td>
<td>11:00-12:50 Symposium Waxman Cross-linguistic perspectives on acquisition: Language-specific and language-general influences (FP)</td>
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<td><strong>1:00</strong></td>
<td>1:00-2:50 Invited Symposium St. James-Roberts Crying and Colic Among Infants Receiving Western, and Non-Western, Forms of Care: Comparative Studies from Five Countries (FP)</td>
<td>1:00-2:50 Invited Symposium Oller Infant vocal development and foundations for the linguistic capacity (FP, OTHER: Computer video clips and sound files will be played back through powerpoint)</td>
<td>1:00-2:50 Symposium von Hofsten The emergence of predictive visual tracking of temporarily occluded moving objects (FP)</td>
<td>1:00-2:50 Symposium Perez-Edgar Temporality and Self: Regulatory Processes in Cognitive and Social Behavior (FP)</td>
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<td>3:00-4:50 Symposium Johnson Susan The detection and elaboration of goal-directed actions and agents (FP)</td>
<td>3:00-4:50 Symposium Johnson Scott The Big Questions of Infant Cognition: Trenchant Debate, Tentative Answers (FP)</td>
<td>3:00-4:50 Symposium Maurer Critical Periods: Re-examined Evidence from Human Sensory Development (OP, PP)</td>
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<td>5:10-6:15 Keynote Address: Prof. Douglas Wahlsten “Biological Intelligence: An old theory now fresh and exciting” (Chair George F. Michen (PP)</td>
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**Friday, May 7, 2004**

**Registration Area**

**Adams Room**

**Monroe Room**

**Parlor H Room**

**Wabash Room**

**Empire Room**

**Adams Room**

**Monroe Room**

**Parlor H Room**

**Crystal Room**

**Empire Room**

**Adams Room**

**Monroe Room**

**Parlor H Room**

**Crescendo Room**

**Empire Room**

**Adams Room**

**Monroe Room**

**Parlor H Room**

**Undergrad Luncheon**

**Rab Lecture Room**

**5:00 - 6:00**

Business meeting and refreshments (complimentary pretzel snacks and soft drinks)

**6:00 - 7:30**

Presidential address by Prof. Arnold Samoff

**7:00**

## Saturday May 8, 2004

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<tr>
<th>Time</th>
<th>Adams Room</th>
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<td>(Complimentary coffee, tea, decaf coffee, juice, fruit, bagels, yogurt, bakery items, etc.)</td>
<td>Stifter: Measuring emotion regulation Assessing the present and planning the future</td>
<td>Camras: Mentoring Women in the Profession</td>
<td>Michel, Journal Editors</td>
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<td>10:00</td>
<td>9:00-10:50 Symposium Tamis-LeMonda: Developing Social Awareness in the Context of Action (FP, PP, SP)</td>
<td>9:00-10:50 Symposium Polak: Measurement Issues Related to Early Temperament Research (PP)</td>
<td>11:00-12:50 Symposium Munn: Developments in Infants’ Understanding of Emotions During the First Year (OP, PP)</td>
<td>9:00-10:50 Symposium Fragasy: Developmental origins of tool use in humans and nonhuman primates (PP)</td>
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<td>Field: Dynamics of Infant Learning (PP)</td>
<td>Chambers: Distributional learning in phonological development generalizations and constraints (PP)</td>
<td>Murn: Developments in Infants’ Understanding of Emotions During the First Year (OP, PP)</td>
<td>Field: Elevated Pregnancy Cortisol, Prematurity, and Interventions (PP)</td>
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<td>1:00-2:50 Symposium Goldfield: Dynamics of Infant Learning (PP)</td>
<td>1:00-2:50 Symposium Deacon: What do infants know about grammatical morphemes? (PP, PC, Dell Laptop)</td>
<td>1:00-2:50 Symposium Baillargeon Raymond: Disruptive Behavior Problems in the General Population of Very Young Children (FP, OP, SP)</td>
<td>1:00-2:50 Symposium Campos: The development of visual proprioception: Antecedents and Consequences (PP, OP)</td>
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<td>5:00-6:15 Public Keynote Address Dr. T. Berry Brazelton: &quot;Stressors and Supports for Families: the Touchpoints Program&quot; (PP)</td>
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Invited Program

Keynote Addresses

A Neurobiological Perspective on the Perception and Understanding of Actions
Bennett Bertenthal
Wednesday, 5:00 PM – 6:00 PM, Red Lacqure Room

Biological Intelligence: An Old Theory Now Frail and Failing
Douglas Wahlsten
Thursday, 5:10 PM – 6:15 PM, Red Lacqure Room

Stresses and Supports for Families: the Touchpoints Program
T. Berry Brazelton
Saturday, 5:00 PM – 6:15 PM, Grand Ballroom

Presidential Address

The Science of Infancy: Academic, Social and Political Agendas
Arnold Sameroff
Friday, 6:15 PM - 7:30 PM, Red Lacqure Room

Symposia

Update on Sudden Infant Death Syndrome (SIDS)
Chair: William P. Fifer
Wednesday, 11:00 AM - 12:50 PM, Wabash Room

What Infants Learn by Doing
Chair: Amanda Woodward
Thursday, 9:00 AM - 10:50 AM, Parlor Room

Perception, Learning and Recall of the Serial Organization of Events
Chair: David J. Lewkowicz
Thursday, 11:00 AM - 12:50 PM, Monroe Room

Crying and Colic Among Infants Receiving Western and Non-Western, Forms of Care: Comparative Studies from Five Countries
Chair: Ian St. James-Roberts
Thursday, 1:00 PM - 2:50 PM, Adams Room

Infant Vocal Development and Foundations for the Linguistic Capacity
Chair: Kimbrough D. Oller
Thursday, 1:00 PM - 2:50 PM, Monroe Room
Critical Periods Re-examined: Evidence from Human Sensory Development  
Chair: Daphne Maurer  
Thursday, 3:00 PM - 4:50 PM, Crystal Room

Development in the Active Voice: Relationships Between Social and Vocal Development in Infancy  
Chair: Michael H. Goldstein  
Friday, 11:00 AM - 12:50 PM, Monroe Room

Frontier of Infant Studies in Japan  
Chair: Ichiro Uchiyama  
Friday, 11:00 AM - 12:50 PM, Crystal Room

Gerber-Sponsored Symposium on Infant Taste and Smell Preferences  
Chair: Julie A. Mennella  
Friday, 1:00 PM - 2:50 PM, Monroe Room

Dialogue

Autism & Theory of Mind  
Chairs: Catherine Lord and Helen Tager-Flusberg  
Wednesday, 11:00 AM - 12:50 PM, Crystal Room

Issues in Emotional Development  
Discussants: Joseph Campos and Alan Fogel  
Thursday, 7:20 AM - 8:50 AM, Crystal Room

Roundtable Breakfast Discussions

Integrating Research on Unimodal and Multimodal Perception: Status and Strategy  
Chairs: Robert Lickliter and Lorraine Bahrick  
Thursday, 7:20 AM - 8:50 AM, Adams Room

Infant Research and the Public Eye: Do we have a Role in Translating Research for Public Consumption  
Chairs: Katherine Hirsch-Pasek, Roberta Golinkoff and Ellen Galinsky  
Thursday, 7:20 AM - 8:50 AM, Monroe Room

Are There General Principles Regarding The Effects of Prenatal Sensory Experience?  
Chairs: Carolyn Granier-Deferre, Benoist Schaal and Anthony DeCasper  
Thursday, 7:20 AM - 8:50 AM, Parlor H Room

The 4th Trimester and Calming Reflex - A New Framework for Understanding and Resolving Infant Crying  
Chair: Harvey Karp  
Thursday, 7:20 AM - 8:50 AM, Wabash Room
Progress, Puzzles and Prospects in Infant Crying Research
Chair: Ian St. James-Roberts
Friday, 7:20 AM - 8:50 AM, Adams Room

Cross-talk: Reconsidering Domain Specificity and Domain Generality in Infant Cognition
Chairs: Katherine Hirsch-Pasek, Nora Newcombe and Roberta Golinkoff
Friday, 7:20 AM - 8:50 AM, Monroe Room

Infancy Research and Critical Pedagogy: Toward a Scholarship of Teaching and Learning in Developmental
Chairs: Wendy L. Ostroff
Friday, 7:20 AM - 8:50 AM, Parlor H Room

Irreconcilable Differences? The Relationship of Development and Evolution
Chair: David S. Moore
Friday, 7:20 AM - 8:50 AM, Wabash Room

Measuring Emotion Regulation: Assessing the Present and Planning the Future
Chair: Cynthia Stifter
Saturday, 7:20 AM - 8:50 AM, Adams Room

Mentoring Women in the Profession
Chair: Linda Camras
Saturday, 7:20 AM - 8:50 AM, Monroe Room

Breakfast discussion between members of the Japan Society for Baby Science and members of ISIS
Chairs: Ichiro Uchiyama, Konishi Yukuo, Joseph J. Campos and Arnold Sameroff
Saturday, 7:20 AM - 8:50 AM, Parlor H Room

Journal Editors
Chair: George F. Michel
Saturday, 7:20 AM - 8:50 AM, Wabash Room
List of Exhibitors

Academia Book Exhibits
Allyn & Bacon
Blackwell Publishing
Brooks Publishing
Electrical Geodesics Inc.
Lawrence Erlbaum Associates, Inc., Publishers
Noldus
Oxford University Press
Qualisys Medical AB
Tobii Technology
University of Chicago Press
Conference Program

Wednesday, May 5, 2004

We01 Touch Research Institute
8:00 AM – 11:00 AM
Parlor H Room

We02 Les Cohen’s “Habit 2000” Meeting
9:30 AM – 11:00 AM
Crystal Room

We03 Dialogue

Autism & Theory of Mind
Chairs: Catherine Lord and Helen Tager-Flusberg
11:00 AM – 12:50 PM
Crystal Room

We04 Symposium

The Lexical/Phonetic Interface In Infancy: Coping With Multiple Sources of Variability
Chair: Richard N. Aslin
11:00 AM - 12:50 PM
Adams Room

Stop-Consonant Perception in 7.5-Month-Olds: Evidence for Gradient Categories
Bob McMurray and Richard Aslin

Distributional and Statistical Bases of Allophonic Groupings
James Morgan, Katherine White, Cecilia Kirk, Sharon Peperkamp and Emmanuel Dupoux

Phonological Encoding of Familiar Word-Forms at 11 Months. The Role of Word Knowledge
Daniel Swingley
Phonetic Perception in the Developing Lexicon: The Role of Word Knowledge  
*Christopher Fennell and Janet Werker*

Discussant: *Richard Asli*

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**We05 Symposium**

**Infant Smiles: Production, Perception and Prediction**

**Chair:** Daniel S. Messinger  
**11:00 AM - 12:50 PM**  
**Monroe Room**

How Infants Smile in the Face-to-Face/Still-Face  
*Susan Acosta, Tricia Cassell, Charles Bauer, Barry Lester and Edward Z. Tronick*

What Causes Some Infant Smiles to be Perceived as More Positive than Others?  
Contributions of Automated Measurement and Ratings  
*Cassel Tricia, Daniel S. Messinger, Jennifer Escobar, Zara Ambadar and Jeff Cohn*

How Some Infant Smiles get Made.  
*Susan S. Jones*

The Development of Anticipatory Smiling: Predicting Social Expressivity from Infant Affective Communication  
*Meaghan Venezia, Danielle Thorp and Peter Mundy*

Discussant: *Alan Fogel*

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**We06 Symposium**

**The Conceptual Power of Naming: Categorization, Individuation and Inductive Inference**

**Chair:** Sandra R. Waxman  
**11:00 AM - 12:50 PM**  
**Parlor H Room**

Auditory Source Influences the Effect of Object Naming on 9-Month-Olds' Object Categorization  
*Anne L. Fulkerson and Robert A. Haaf*

Words as Invitations to Form Categories: The Importance of Consistency  
*Sandra R. Waxman and Irena E. Braun*

Do Labels Help 12-Month-Old Infants Establish Object Representations?  
*Fei Xu*
The Role of Naming in Guiding Infants' Categorization of Novel Objects with Shared Internal Features
Susan A. Graham, Kristinn D. Meagher and Andrea N. Welder

Discussant: Susan Gelman

**We07 Symposium**

**Update on Sudden Infant Death Syndrome (SIDS)**

Chair: William P. Fifer  
11:00 AM - 12:50 PM  
Wabash Room

*Fern R. Hauck*

The Genetics of Sudden Infant Death Syndrome: 2004  
*Debra E. Weese-Mayer*

Serotonergic Receptor Binding Abnormalities In Infants Dying of the SIDS Among the Northern Plains Indians  
*Hannah C. Kinney*

Altered autonomic development in SIDS  
*William P. Fifer*

**Poster Session**

11:30 AM – 1:30 PM  
Empire Room

**We08 Motor and Sensorimotor Behavior**

1. Infant Manual Exploration Of Object-Surface Relations  
   *Alexa W. Khawar, Ashley S. Neal, Kristine S. Bourgeois and Jeffrey J. Lockman*

2. The Effects of Locomotor Posture on Infants’ Social and Exploratory Behaviors  
   *Melissa W. Clearfield, Molly Mullen and Nelson Naree*

**We09 Perception and Attention**

3. Processing and Developmental Factors in Infant Spatial Orienting  
   *Otilia Blaga and John Colombo*

4. The Reliability of Visual Habituation and Dishabituation: A Meta-Analysis  
   *Michael Kavsek*

5. Modal and Amodal Completion Processes in Infancy
Michael Kavsek and Laura Hemker
6. Spatial Representation in 36 Month-Olds; the Double-Step Saccade Paradigm.
Kate Wilmut, Janice H. Brown and John P. Wann
7. Multiple Object Tracking in Preschool Children
Kirsten O'Hearn Donny, Barbara Landau and James E. Hoffman
8. Cross-Modal Recognition of Shape and Handedness in Newborns
Arlette Sterri and Gentaz Edouard

We10 Cognition Memory and Learning
9. Discrimination of Large Numbers in Newborn Infants
Arlette Sterri, Kasia Cieplak-von Baldegg and Julie Féron
10. The Role of Context in Infant Object Categorization
Martha E. Arterberry, Clay Mash and Marc H. Bornstein,
11. Long-Term Memory for an Interpersonal Interaction Occurring at 5 Months of Age
Clay Mash, Martha E. Arterberry and Marc H. Bornstein
12. Sensory Preconditioning in 3-Month-Olds
Jennifer Campanella and Carolyn Rovee-Collier
13. Prior Reminding Reduces the Time Needed for Future Reminding at 3 Months
Karen Hildreth-Bearce and Carolyn Rovee-Collier
14. Newborns’ Performance in a Visual Recognition Task and in a Priming Task is
Differentially Affected by a Distractor Stimulus
Chiara Turati, Luisa Zulian, Beatrice Dalla Barba and Francesca Simion
15. Play Development Among Japanese American and South American Immigrant Toddlers
in the U.S.
Linda Cote
16. Age-Related Changes in the Effect of a Reminder Treatment in the Visual Recognition
Memory (vrm) Paradigm
Kirstie Morgan and Harlene Hayne
17. Statistical Learning in Infancy: Frequency and Conditional Probability Play Independent
Roles
Stuart Marcovitch and David J. Lewkowicz
18. How Do Young Children Learn About Tools? The Contribution of Physical and
Intentional Cues
Cara DiYanni and Deb Kelemen
19. Large Number Addition and Subtraction by Human Infants
Koleen McCrink and Karen Wynn
20. Short- and Long Term Memory in 20-Month-Old Children: Relations with Initial
Learning
Rebecca Starr, Evren Kavas, Melissa Burch and Patricia Bauer
21. A Discourse-Based Account of Young Children's Understanding of the Appearance-
Reality Problem
Mikkel B. Hansen and Ellen M. Markman
22. Rapid Learning About Objects in Infancy
Lori Markson, Stella Christie and Elizabeth S. Spelke
We11 Communication and Language
23. The Shape Bias in 12-, 18- and 24-Month-Olds Across Noun, Adjective and No Label Conditions
   Julie M. Hupp and Robert A. Haaf
24. Children’s Use of Comparison in Learning Action or Result Verbs
   Jane B. Childers
25. Is There a Dissociation Between Verbal and Environmental Sound Processing in Young Children?
   Alycia Cummings, Ayse Saygin, Frederick Dick and Elizabeth Bates
26. Four-Month-Old Infants Categorize Infant-Directed Speech When Viewing a Female Face
   Melanie J. Spence, Yao-chia Chuang and Julie Sokolsky
27. Baby Words by Japanese Children and Caregivers in Picture Book and Toy-Play Contexts
   Ogura Tamiko
28. Language Facilitates Symbolic Understanding of Pictures for 2-year-old Children
   Melissa Allen Preissler, Lucas Payne Butler and Susan Carey
29. Fourteen-Month-Old Infants Can Form Novel Word-Spatial Relation Associations
   Marianella Casasola and Makeba Wilbourn Parramore
30. No, Don't, Stop! Words Mothers Use When Their Children Are At Risk
    Elizabeth Zack, Katherine Dimitropoulou, Maria Acevedo, Catherine Tamis-LeMonda and Karen E. Adolph
31. The Reach of Speech in Early Mother-Child Conversations
    Lauren B. Adamson and Roger Bakeman

We12 Emotional Development
32. Infant Empathy: Timing of Occurrence and Expressive Pattern
    Korina Hatzinikolaou
33. A Happy Marriage and a Happy Active Baby: Examining Predictors of Infant Temperament from a Couples Marriage as Newlyweds
    Alyson F. Shapiro, Eun Young Nahm and John Gottman
34. Fear and Positive Affectivity in Infancy: Convergence/Discrepancy Between Parent-Report and Laboratory-based Indicators
    Julia Marmion, Maria Gartstein and Naomi Dockery
    Maria Gartstein, Heather Swanson and Julia Marmion
36. The Role of Infant and Maternal Behaviors in Regulating Infant Affect and One Another in a Novelty Context
    Esther M. Leerkes and Susan C. Crockenberg

We13 High Risk and Pediatric Issues
37. Interactions Between Premature Infants and Their Mothers at 6 and 18 Months After Term
    Diane Holditch-Davis, Todd A. Schwartz and Mark Scher
38. The Developmental Consequences of Prenatal Exposure to MDMA and ‘Recreational’ Drugs: Observations on Participant Recruitment
We14 Psychopathology and Developmental Delay

39. Causal Perception in Infants with and without Down Syndrome: A Longitudinal Study
   Derek Moore, John Oates, Julia Goodwin and Peter Hobson

40. Stability of Disorganized Attachment and Atypical Maternal Behavior from 12- to 24-months in a High-risk Sample
   Lindsey Forbes, Elspeth Evans, Greg Moran, David R. Pederson and Sheri Madigan

   Petra Warreyn, Herbert Roeyers and Isabel De Groote

42. Anomalous Mother-Infant Interactions, Disorganized Attachment and Behavioural Problems
   Sheri Madigan, Greg Moran, David R. Pederson, Carlo Schuengel and Carey Anne DeOliveira

We15 Social Development

43. Later Representations of Infant Disorganization in the Family Drawings of 7-Year Olds
   Sheri Madigan, Amy Oliphant and Susan Goldberg

44. Continuity, Stability and Concordance of Mother and Sibling Beliefs and Behaviors in the Second Year
   Marc H. Bornstein, Diane B. Leach and Kathleen M. Painter

45. Linking Type and Amount of Child Care to Aggressive Behavior at 2 1/2
   Susan Crockenberg and Esther Leerkes

46. Exploring Developmental Onset of Understanding of Pretense in Infant Responses to Maternal Non-Literal Actions to Make them Laugh
   Shigeru Nakano

47. Infants Take Longer to Process Male than Female Faces in Comparable Looking Time Tasks
   Jennifer L. Ramsey, Judith H. Langlois and Nathan C. Marti

48. Inferring the Goals of Robot: Reenactment of Goals Paradigm with Robot
   Shoji Itakura, Hiraku Ishida, Takayuki Kanda and Hiroshi Ishiguro

49. Continuities and Discontinuities in Mother-Infant Co-Regulation: Linkages with Maternal and Infant Characteristics
   Chris L. Porter and Melissa K. Wouden-Miller

50. Infant' Perception of Emotional Expressions of Their Parents and Unfamiliar Adults
   Sylvie Goldman, Ronit Kahana-Kalman, Diane Montague and Arlene Walker-Andrews

51. 12- and 18-Month-Old Infants Follow Gaze to Spaces behind Barriers
   Henrike Moll and Michael Tomasello

We16 Early Environments and Social Policy

52. Variations in Black Mothers' Living Arrangements: Demographic, Psychosocial and Child Developmental Correlates
   Marjorie Beeghly, Karen Olson, Edward Tronick, Katherine M. Weinberg, Martha DiMatteo, Pierre C. Snaltze and Lisa Fhagen
**We17 Undergraduate Research**

53. Infants' Knowledge of Rational Goal-Directed Action  
   *Jessica B. Cicchino and David H. Rakison*

54. New York Infant Walking Tours  
   *Rachel Sotsky, Jessie Garciaguirre and Karen Adolph*

55. Comparison of Affect Expression Between Romanian Children in Institutional Settings and Those in the Surrounding Communities  
   *Laura H. Driscoll, Peter J. Marshall and Nathan A. Fox*

**We18 Other**

56. Correlates of 9-Month-Old Infants' Night Awakening  
   *Cheryl Wiedman and Katherine Karraker*

57. A Method for Structural MRI Scanning of Non-Sedated Infants  
   *Sarah Paterson, Nino Badridze, Judy Flax, Wen-Ching Liu and April Benasich*

**We19 WAIMH Symposium**

The Ecology of Father Involvement: Families, Parental Involvement, Programs and Neighborhoods

**Chairs:** Natasha J. Cabrera and Lori Roggman

1:00 PM - 2:50 PM  
Adams Room

Low-Income Fathers' Involvement in Their Toddlers lives: Biological Fathers from the Early Head Start National Research and Evaluation Study  
*Natasha Cabrera, Rebecca Ryan, Jacqueline Shannon, Cheri Vogel, Helen Raikes and Jeanne Brooks-Gunn*

Playing with Daddy: Social Toy Play, Early Head Start and Developmental Outcomes  
*Lori Roggman, Lisa Boyce, Gina Cook, Katie Christiansen and DeAnn Jones*

Origins of Risk: Effects of Paternal Antisocial Behavior, Neighborhood Violence and Family Type on Child and Family Functioning  
*Hiram Fitzgerald, Lorraine McKelvey and Rachel Schiffman*

What About the Dads? The Evolution of Father Involvement in an Early Head Start Program  
*Carol McAllister, Patrick Wilson and Jeffreyck Burton*

Discussants: Lynda Clarke and Rob Palkovitz
We20 Symposium  1:00 PM - 2:50PM

Is My Mommy Sad, Nervous, or Interested in Another Baby? What Maternal Mood and Direction of Attention Mean to Infants

Chair: Nancy A. Jones
Monroe Room

Maternal Depression vs. Anxiety Effects on 4-Month Mother and Infant Self-and Interactive Regulation in Face-to-Face Play
Beatrice Beebe, J. Jaffe, S. Feldstein, H. Chen and H. Cohen

Exclusiveness in the Context of Multiple Caregivers
Sybil Hart, H.A Carrington, S.R Carroll and A.C. Roetzel

Are Depressed Mothers-Infants Dyads Benefited by Breastfeeding?
Nancy Aaron Jones, Barbara A. Mc Fall and Deborah McGee,

Discussant: Brenda Volling

We21 Symposium

New Perspectives on Autism: The Role of Stress

Chair: Philip R. Zelazo
1:00 PM - 2:50 PM
Parlor H Room

Prenatal Stress and Autism: Epidemiological Studies and Natural Experiments
Dennis K. Kinney and Sharon J. Tramer

The Polyvagal Theory: A New Approach to Autism Research
Stephen W. Porges and Olga V. Bazhenova

The Role of Stress Tolerance in the Etiology and Treatment of Autism
Philip R. Zelazo and Caroline Reid

Discussant: Michael J. Weiss

We22 Symposium

Context-Specificity Effects in Infants' Learning and Reasoning about Events

Chairs: Renée Baillargeon and Su-hua Wang
1:00 PM - 2:50 PM
Crystal Room
(Not) Learning by Doing: Garcia Effect in a Locomotor Discrimination Learning Task
*Amy Joh and Karen Adolph*

Is More Always Better? Infants’ Ability to Form an Abstract Categorical Representation of Support
*Marianella Casasola*

Change Blindness in Infancy: Can Infants Detect a Change in an Object’s Height?
*Su-hua Wang*

Exploring Common Ground: Infants’ Physical Knowledge and Precursors to Spatial Language
*Susan Hespos*

Infants’ Perception of Objects Depends on Whether they are Laterally or Vertically Adjacent
*Amy Needham*

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**Poster session**

2:00 PM – 3:30 PM
Empire Room

**We23 Motor and Sensorimotor Behavior**

1. Exploring Children's Body Knowledge via Imitation of Meaningless Gestures
   *Nadra Aouka, Georg Goldenberg and Jacqueline Nadel*

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**We24 Biological Processes**

2. Parent Reports of Infant Sleep Patterns: A Factor Analysis
   *Catherine Weir, Carol Headley Wetzig and Krista Duke*

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**We25 Communication and Language**

3. The Relationship Between Maternal Verbal Input and 13-Month-Olds' Vocabulary
   *Anne L. Fulkerson, Aren Murad, Jennifer Reams and Peg Hull Smith*

4. The Emergence of Absent Reference Comprehension in 12- to 16-Month-Old Infants
   *Megan Saylor*

5. Are Word Learning Biases Created In The Moment? Task And Stimulus Factors Affect The Shape And Material Biases
   *Larissa Samuelson and Jessica Horst*

   *Marc Bornstein and Linda Cote*

7. Word Learning in the Absence of Joint Attention
   *Jason Scafiefield and Douglas A. Behrend*

8. Can 18-Month-Olds Learn Words through Overhearing?
Penelope Floor and Nameera Akhtar

9. Conceptual Foundations of Spatial Language: The Importance of Goals in Motion Events
   Laura Lakusta, Laura Wagner, Kirsten O'Hearn Donny and Barbara Landau

10. Understanding False Belief in Infancy: Integrating Linguistic Information
    Kristine Onishi, Hyun-joo Song, Renée Baillargeon and Cynthia Fisher

11. How Preverbal Categorization Performance Relates to Early Word Acquisition
    Petra Schulz, Julia Waidhas and Sabina Pauen

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**We26 Cognition Memory and Learning**

12. Number of Trials or Number of Exemplars Presented during Familiarization – What Counts for Categorization Performance in Preverbal
    S. Pauen and J. Pahnke

13. The Effect of a Brief Reminder on Infant Retention
    Debra Hill, Jill Grodkiewicz and Carolyn Rovee-Collier

14. Glucose Feeding Enhances Visual Memory in Human Newborns
    Dawa Samdup, Adeline Khadoury, Ronald Barr, Simon Young and David Laplante

15. Development of Perceptually Based Subordinate-level Categorization in 3- to 7-Month-Old Infants
    Paul C. Quinn

16. Spatial Representation by Young Infants: Categorization of Spatial Relations or Sensitivity to a Crossing Primitive?
    Paul C. Quinn

17. The Impact of Background Television on Complexity of Play
    Marie K. Evans, Tiffany A. Pempek, Heather L. Kirkorian, Anne E. Frankenfield and Daniel R. Anderson

18. Beyond the Information given ii: Transfer of Causal Actions to Novel Objects after Observation without Motor Practice
    Dahe Yang and Emily W. Bushnell

19. Infants' Categorization of Typical and Scrambled Human Body Shapes in a Sequential Touching Task
    Michelle Heron, Virginia Slaughter

20. Maternal Education Moderates the Impact of Prior Experience on Complex Rule Learning
    Marsena Webb, Gretchen Herwig and Tara Wass

21. Characteristics of the Object-Labeling Context in Parents' Speech to Infants
    Gwenden L. Dueker

22. Is There a Visual A-not-B error? Information Provided by an Eye-Tracking System
    Lécuyer Roger and Kergoat Sophie

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**We27 Perception and Attention**

23. When Four-Month-Olds can Make the Difference Between 3+1=4 and 3+1=3.
    Roger Lécuyer, Sohie Berthereau, Amel Ben Taïeb and Nadia Tardif

24. The use of Perspective Cues in a 2D Display by 4-Month-Olds and Adults.
    Myriam Frichtel, Roger Lécuyer and Karine Durand

25. Infant Peripheral Stimulus Localization of Dynamic Stimuli
    Brittany A. McKinney and John E. Richards

26. The Influence of Body Movement on the Auditory Encoding of Rhythm Patterns
    Jessica Phillips-Silver and Laurel J. Trainor
27. Non-Nutritive Sucking in Neonates of Depressed vs Non-depressed Mothers  
*Maria Hernandez-Reif, Tiffany Field, and Miguel Diego*

28. Representation of the Object Motion at 4.5 Months of Age: A Study of Spatio-Temporal Parameters when an Object is Occluded.  
*Olga Kochukhova, Kerstin Rosander and Claes von Hofsten*

### We28 Early Environments and Social Policy

29. Infants Adopted From China: A Prospective Study of Their Development  
*Nancy Cohen, Mirella Pugliese, Mirek Lojkasek and Zohreh Zadeh*

30. Outcomes of a Canadian National Project to Enhance Language and Cognitive Development in Community Based Programs  
*Nancy Cohen and Laura Heinz*

### We29 Social Development

31. Maternal Social Contingency: Effect on Two-Month-Old Infants’ Responsiveness to Strangers  
*Ann Bigelow and Philippe Rochat*

32. Infants' Understanding of the Relation Between Seeing and Knowing - The Role of Surprise  
*Sarah Dunphy-Lelii and Henry Wellman*

33. The Many Different Faces of Parental Sensitivity: The Attachment Security Link  
*Diane Wille*

34. Coordinated Affect with Mothers and Strangers: A Longitudinal Analysis of Joint Engagement Between 5 and 9 Months  
*Tricia Striano and Evelin Bertin*

35. Prohibition and Protest: Changes in Mother-Infant Conflicts from 3- to 18-Months  
*Xin Chen and Gwen Gustafson*

### We30 Psychopathology and Developmental Delay

36. Teasing in Infancy: Comparing Mothers with and without Depressed Mood during Play with Their Babies  
*Nadja Reissland*

37. How Taiwanese Mothers of Babies With and Without Down Syndrome Perceive Their Roles in Supporting Development  
*Jeanette McCollum and Yu-Jun Chen*

### We31 High Risk and Pediatric Issues

38. Predicting Clinical Status with Discriminant Function Analysis on the NBAS  
*Dawn Ilardi, Eugene Emory and Katrina Cederberg*

39. Mother-Infant Relationship Across the First Year and the Development of Cognitive and Symbolic Competencies in Triplets  
*Ruth Feldman and Arthur I. Eidelman*

40. Developing a Sense of Motherhood: Pregnancy and Opiate Addiction  
*Suzanne Steinruuck and Sydney Hans*

41. Neurological Examination of Very Low Birth Weight Infants in Neonatal Intensive Care Units in Japan; A Questionnaire Analysis
Yayohi Nakajima, Kyoko Hirasawa and Yukuo Konishi
42. Clinical Significance of Mismatch Negativity in Healthy and High-risk Neonates
   Kyoko Hirasawa, Yayohi Nakajima, Masaharu Kato, Makiko Kurihara and Konishi Yukuo
43. Parental Competence in Adolescent Mothers
   Louise Cossette, Daniel Paquette, Jean-François Saucier and Céline Goulet

We32 Emotional Development
44. Infant's Gazing Behavior and Contingent Facial Responses to Their Mother's Facial Expressions of Emotion.
   Marie-Christine Lavallée and Louise Cossette
45. Cortisol and Emotional Responses to the Still Face Paradigm in 6-Month-Old Infants
   Douglas Ramsay
46. Impact of Psychosocial Distress of the Mother during Pregnancy on Self-Regulation in the Newborn Baby
   Harald Wurmser, Margarete Rieger, Mechthild Papoušek and Karl-Martin Pirke
47. Stability of Temperament Classification across Contexts: Maternal Report versus Laboratory Observation
   Jennifer N. Martin, Koraly Pérez-Edgar and Nathan A. Fox
48. A Meta-Analysis of Attachment among the Children of Adolescent Parents
   Brent Sylvester
49. Perceived Difficulty and Overfeeding in Low-Income Infants: A Risk Factor for Excessive Weight Gain?
   John Worobey and Maria Islas

We33 Other
50. Perceptions and Preferences for Infant Body-Size by Low-income Mothers
   John Worobey and Maria Islas
51. Continuous White Noise to Reduce Resistance going to Sleep and Night Wakings in Toddlers
   LeAnne Forquer and Carl Johnson
52. Tired Parents and Cranky Kids: Some Factors Predicting Infant Sleep Problems at 6 and 12 Months
   LeAnne Forquer, Jason Jent, Kathy Fall, Melissa Brown and Erin Barkow

We34 Undergraduate Research
53. Examining the Relationship Between Parenting Style and Child Novel Word Comprehension Skills
   Stacy L. Barner and Wallace E. Dixon Jr.
54. How Infants Adapt to Functional Changes in Body Dimensions
   Jessie Garciaquirre and Karen Adolph
55. Predicting Nonverbal Learning Disabilities in a Sample of Children Born Preterm
   Elizabeth Buvinger, Suzanne M. Cox and Sydney L. Hans
We35 Symposium

Two Nutritive Suckling Systems in Human Infants

Chair: Julie C. Lumeng
3:00 PM - 4:50 PM
Adams Room

Introduction to the Study of Human Infant Suckling
*Elliott Blass, Julie Lumeng and Namrata Patil*

The Necessity of Arousal Provided by Holding and Eye Contact For Normal Intake via Suckling
*Namrata Patil, Julie Lumeng and Elliott Blass*

Looking at the Feeder’s Face and Physiologic Regulation of Feeding
*Julie Lumeng, Namrata Patil and Elliott Blass*

Discussant: *Ron Barr and Darwin Muir*

We36 Symposium

The Relation of Facial Expressions to Emotion Eliciting Situations

Chair: Margaret I. Bendersky
3:00 PM - 4:50 PM
Monroe Room

Does the Organization of Emotional Behavior Change Over Time? Facial Expressivity from 4 to 12 Months
*David Bennett, Margaret Bendersky and Michael Lewis*

Emotion Expression and Regulation in the Strange Situation at 13 and 18 Months
*Carroll Izard, Jo Ann Abe and Christopher J. Trentacosta*

Cognition as Context for Infant Facial Expressions
*Margaret Sullivan and Michael Lewis*

Do Infants Show Distinct Negative Facial Expressions for Different Negative Emotions?
*Linda Camras, Harriet Oster, Roger Bakeman and Joseph Campos*

Discussant: *Michael Lewis*
We37 Symposium

Perspectives on Infants' Visual Attention: Developmental Change and Individual Differences

Chair: Mary L. Courage
3:00 PM - 4:50 PM
Parlor H Room

Longitudinal Trends in Infant Visual Attention: The Kansas Early Cognition Project
John Colombo et al

Infant Attention and Its Implications for Cognition
Susan Rose, Judith Feldman and Jeffrey Jankowski

Developmental and Individual Differences in Infants' Attention as a Function of Stimulus Characteristics
Mary Courage, Greg Reynolds and John Richards

Model-based Approaches to Habituation Measurement: Stability, Sensitivity and Individual Differences
Rick Gilmore, Michael Dahlin and Hoben Thomas

Discussant: John Richards

We38 Symposium

Embodied Modeling Approaches To Infant Social and Language Development

Chair: Gedeon O. Deák
3:00 PM - 4:50 PM
Crystal Room

How To Use Anthropomorphic Robots To Study Social Development
Brian Scassellatti

Towards a Theory of the Emergence of Gaze Following: Computational and Virtual Models of Infant Social Interaction
Jochen Triesch, Gedeon Deák, Eric Carlson and Hector Jasso

How Does an Infant Acquire the Ability of Joint Attention? A Constructive Approach
Yukie Nagai, Koh Hosada and Minoru Asada

Modeling the Effects of Social Interaction and Visual Attention in Early Lexical Learning
Chen Yu, Dana Ballard and Richard Aslin
Discussant: Denis Mareschal

**We39 Keynote Address** (Chair: Linda Camras)

A Neurobiological Perspective on the Perception and Understanding of Actions

Bennett Bertenthal

5:00 PM – 6:00 PM

Red Lacqure Room

**Welcoming Reception**

Opening remarks
6:15 PM – 8:00 PM
Red Lacqure Room (Complimentary hors d’oeuvres and drinks)

**Exec Com Dinner**

7:00-8:30
Room to be announced
Thursday, May 6, 2004

Th01 Roundtable Breakfast Discussion
Integrating Research on Unimodal and Multimodal Perception: Status and Strategy
Chairs: Robert Lickliter and Lorraine Bahrick
7:20 AM - 8:50 AM
Adams Room

Th02 Roundtable Breakfast Discussion
Infant Research and the Public Eye: Do we have a Role in Translating Research for Public Consumption
Chairs: Katherine Hirsch-Pasek, Roberta Golinkoff and Ellen Galinsky
7:20 AM - 8:50 AM
Monroe Room

Th03 Roundtable Breakfast Discussion
Are There General Principles Regarding The Effects of Prenatal Sensory Experience?
Chairs: Carolyn Granier-Deferre, Benoist Schaal and Anthony DeCasper
7:20 AM - 8:50 AM
Parlor H Room

Th04 Roundtable Breakfast Discussion
The 4th Trimester and Calming Reflex - A New Framework for Understanding and Resolving Infant Crying
Chair: Harvey Karp
7:20 AM - 8:50 AM
Wabash Room

Th05 Breakfast Dialogue
Issues in Emotional Development
Discussants: Joseph Campos and Alan Fogel
7:20 AM - 8:50 AM
Crystal Room
Th06 Symposium

Young Children's Understanding of the Symbolic Nature of Objects and Pictures

Chair: Virginia P. Slaughter
9:00 AM - 10:50 AM
Monroe Room

Representation-Reality Confusions by Infants and Young Children
Judy DeLoache

Do You See what I See? Infants’ Comprehension of Symbolic Connections Between Toy Models and Their Real-World Referents
Barbara Younger and Kathy Johnson

The Representation of Actions and Objects and the Acquisition of Concepts and Symbols
Laraine McDonough

Infants’ Responses to Real Humans and Representations of Humans
Michelle Heron and Virginia Slaughter

Discussant: Linda Smith

Th07 Symposium

Cultural Contexts of Infant-Caregiver Interactions

Chair: Hillary N. Fouts
9:00 AM - 10:50 AM
Wabash Room

Mother-Infant and Father-Infant Interactions In Low-, Middle and Upper-Income African American Families
Jaipaul Roopnarine, Hillary Fouts, Michael Lamb, Tracy Lewis

Parental Behavior Following Infant Cry Observed Among 3-Month-Olds from the US, Canada, Germany, Latin America and Central Africa
Axel Schölmerich, Birgit Leyendecker

Developmental and Cultural Differences in Breastfeeding among Four Small-Scale Societies in Central Africa
Hillary Fouts, Barry Hewlett, NICHD

Discussants: Paula Ivey Henry, Gilda Morelli
Th08 Symposium

**Infants’ Perception of Native and Non-native Vocalic Properties: Vowels and Tones**

*Chairs:* Catherine Best, Denis Burnham  
*9:00 AM - 10:50 AM*  
*Adams Room*

Asymmetries in vowel perception: Facts and interpretations  
*Ocke-Schwen Bohn and Linda Polka*

Asymmetries in vowel perception: Developmental patterns and implications  
*Linda Polka and Ocke-Schwen Bohn*

Developmental Changes in Perception of Non-Native Vowel Rounding Distinctions: Initial Asymmetries and Dialectal Influences  
*Catherine T. Best and Alice Faber*

The Development of Lexical Tone Perception: Adults, Children and Infants  
*Denis Burnham and Karen Mattock*

Discussants: *Janet F. Werker and Winifred Strange*

Th09 Symposium

**Do You See What I Hear? Infants’ Use of Audio-Visual Synchrony During Language Development**

*Chair:* George J. Hollich  
*9:00 AM - 10:50 AM*  
*Crystal Room*

Preverbal Infants’ Attention to and Learning of Words from Their Mothers’ Auditory-Visual Communication  
*Lakshmi Gogate*

The Roar of the Crowd: Infants’ Segmentation and Understanding of Words in Noise  
*George Hollich and Julia Wales*

Audiovisual Speech Perception in Normal-Hearing Infants and Hearing-Impaired Infants with Cochlear Implants  
*Tonya Bergeson, Derek Houston and David B. Pisoni*

Learning Associations Between Speech Sounds and Objects that Share Intersensory Redundancy in Deaf Infants with Cochlear Implants  
*Derek Houston, Elizabeth A. Ying, David B. Pisoni and Karen Iler Kirk*,
Th10 Invited Symposium

**What Infants Learn by Doing**

**Chair:** Amanda Woodward  
**9:00 AM - 10:50 AM**  
**Parlor Room**

- Infant Memory in Action  
  *Carolyn Rovee-Collier*

- Everyday Learning  
  *Karen E. Adolph*

- Learning By Exploring Objects  
  *Amy Needham*

- Learning About Action by Acting  
  *Amanda Woodward*

- Learning to Solve a Motor Problem in the Second Year of Life  
  *Rachel Keen and Michael McCarty,*

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**Poster session**

**9:30 AM – 11:30 AM**  
**Empire Room**

**Th11 Motor and Sensorimotor Behavior**

1. Lower-body Functional Asymmetries in the Newborn: Are There Lateral Biases in Terms of Kinematic Parameters?  
   *Erik Domellöf, Louise Rönnqvist and Brian Hopkins*

2. Adaptations in Infant Gait to Altered Balance Demands  
   *Ugo Buzzi and Beverly Ulrich*

3. Relative Kicking Frequency in Full-term and Preterm Infants in the Mobile Paradigm  
   *Jill Heathcock, Anjana Bhat, Michele Lobo and James (Cole) Galloway*

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**Th12 Biological Processes**

4. Absence of Nursing Mothers Changes the Circadian Rhythms of Clock Genes in the Neonatal Biological Clock  
   *Hidenobu Ohta, Sato Honma, Hiroshi Abe and Ken-ichi Honma*
**Th13 Perception and Attention**

5. The Emergence of Cognitive Specialization: The Case of Face Preference.  
   *Eloisa Valenza, Chiara Turati, Irene Leo and Francesca Simion*

6. Visual Short-Term Memory Capacity in Infancy: Short-Term Retention of Object Feature and Conjunction Information  
   *Evelin Bertin and Ramesh Bhatt*

7. Agents Motion and the Development of Object Individuation  
   *Luca Surian, Stefania Caldi and Eleonora Piredda*

8. Infant Discrimination of Faces in the Context of Dynamic Multimodal Events: Predictions from the Intersensory Redundancy Hypothesis  
   *Lorraine Bahrick, Robert Lickliter, Mariana Vaillant, Melissa Shuman and Irina Castellanos*

9. Infants' Listening Preferences for a Cappella and Accompanied Music  
   *Beatriz Ilari, Linda Polka and Megha Sundara*

10. Core Knowledge Hypothesis vs. Ecological Theory: Understanding Spatial Reasoning Development in 24-44-Month-Olds  
    *Sarah Cummins-Sebree*

11. Infant Stream Segregation: Recognizing One’s Name in the Context of Noise  
    *Rochelle Newman*

**Th14 Communication and Language**

12. Infant Attention to Prosodic vs. Phonetic Aspects of Language  
    *Rochelle Newman and Grace Yeni-Komshian*

13. Early Risk Factors for Preschool Speech and Language Impairments  
    *Christine Delgado and Sara J. Vagi*

14. The Pictorial Infant Communication Scale (PICS)  
    *Christine Delgado, Meg Venezia and Peter Mundy*

15. Using Name-Based Categorization to Explore Phonetic Specificity: Consonants are Easier than Vowels  
    *Nazzi Thierry*

16. A Comparison of the Intelligibility and Acoustics of Infant-Directed Speech and Adult-Directed Clear and Conversational Speech  
    *Jean Andruski*

17. 'That's not a Story!' Toddlers Co-Constructing Past Event Narratives with Mothers and Fathers  
    *Barbara Pan and Jennifer Kang*

18. Low-Income Mothers' Elicitation and Scaffolding of Toddlers' Past-Event Narratives  
    *Jennifer Kang and Barbara Pan*

19. Hispanic Mothers Warmth and Support: A Look at Stability  
    *Gina A. Cook, Lisa K. Boyce, Vonda K. Jump, Lori A. Roggman and Mark Innocenti*

20. Maternal Verbal Styles: Responsiveness, Supportive Directiveness and Intrusive Directiveness  
    *Elise Frank Masur and Valerie Flynn*

21. First Stages of Verb Inflections in Italian Children  
    *D’Odorico Laura, Salerni Nicoletta and Fasolo Mirco*
22. Synchronous and Asynchronous Feeding Interaction in American and Italian Mother-Infant Dyads
   Manuela Lavelli and Hui-Chin Hsu

Th15 Social Development
23. Mothers’ Separation Anxiety and Their Social-Interactive Behavior with Infants
   Hui-Chin Hsu and Ji Hyun Sung
24. The Impact of Maternal Depression on the Neonate’s Neurological and Behavioral Organization.
   Jaqueline Wendland, Armelle Galin, Stéphanie Bialobos, Philippe Mazet, Yves Darbois,
   Jacqueline Nadel and Priscille Gerardin
25. Conspecific Perception in Human Infants: Babies Prefer Fellow Human Beings
   Curtis Samuels
26. Encoding Action Roles in Meaningful Social Interaction in the First Year of Life
   Barbara Schöppner, Beate Sodian and Sabina Pauen
27. Young Children's Use of Gaze Cues for Inferring Mental States
   Shiri Einav and Bruce Hood
28. Social Looking During Expected and Unexpected Physical Events
   Tedra Walden, Susan Hespos, Geunyoung Kim, Carrie McCoy and Jan Karrass
29. Does Infant Perception of Causation-at-a-Distance Link to other Measures of Infant Social Cognition?
   Anne Schlottmann and Elizabeth Ray
30. Infants’ Emotional Responses to Loss of Exclusiveness: Anger Versus Sadness
   Sybil Hart, Heather A. Carrington, Sebrina R. Carroll and Amy C. Roetzel
31. Cross-Species Comparison of Newborn Neurobehavioral Integrity
   K.A. Bard

Th16 Emotional Development
32. Neonatal Imitation in Chimpanzees
   K.A. Bard
33. Genetic and Environmental Contribution to the Quality of Attachment in Infancy
   Ildiko Danis, Krisztina Lakatos, Zsofia Nemoda, Ildiko Toth and Judit Gervai
34. Maternal Characteristics and Children's Behavioral Inhibition
   Elizabeth J. Kiel and Kristin A. Buss
35. Emotional Expressivity and Self-regulation in Reunion Play in High Risk Six Month Old Infants
   Esther Cherland, Margaret McKim, Cheryl Sampson, Marnie Maroès and Joel Tourigny
36. Predictive and Contemporaneous Relations Between Infant Temperament and Observed Emotionality During Mother-Infant Interaction
   Melissa M. Ghera, Amie Ashley Hane, and Nathan A. Fox
37. The Origins of Concordance of Sibling Attachment Relationships
   Erinn Hawkins, Elspeth Evans, Greg Moran, Dave Pederson and Kirstie Knepers

Th17 Cognition Memory and Learning
38. The Role of Communicative-Referential Cues in Observational Learning During the Second Year
   Ildikó Király, Gergely Csibra and György Gergely
39. Reactivation and Reforgetting in the Second Year of Life  
   Vivian Hsu and Carolyn Rovee-Collier

40. Forming Associations Between Infants’ Co-active Memory Representations  
   Kimberly Cuevas, Amy Learmonth and Carolyn Rovee-Collier

41. Contingency Learning in Short- and Long-Looker Infants  
   Catherine Weir and Stuart W. Millar

42. Delineating the Roles of Body Movement Copying and Object Movement Re-Enactment in Infants’ Imitation of Acts on Objects  
   Chi-Tai Huang

43. Will Any Doll Do? 12-Month-Olds' Reasoning About Goal Objects  
   Elizabet Spaepen and Elizabeth Spelke

44. Clever Parents, Clever Infants?  
   Hedwig van Bakel and Marianne Riksen-Walraven

45. Poverty and Mother-Toddler Pretend Play: Do Mothers Make a Difference?  
   Lisa K. Boyce, Lori A. Roggman, Gina A. Cook and Katie Christiansen

46. Discrete Versus Continuous Quantity in Infants’ Judgments of Sets of Objects  
   Alan Leslie and Marian Chen

47. Developmental Differences in the Emergence of Mirror vs Live Video Self-Recognition  
   Gabrielle Simcock, Thomas Suddendorf and Mark Nielsen

48. Affordance Learning and Behavioural Re-Enactment in 12 Month Olds  
   Mark Nielsen

49. Object-Centered Versus Agent-Centered Interpretations of Referential Attitude Expressions in 14- Versus 18-Month-Olds  
   Katalin Egyed, Ildikó Király and György Gergely

50. The Facilitating Effect of a 1-Day Delay on Recall Memory in 9-Month-Olds: Evidence for Consolidation Processes  
   Angela Lukowski, Sandra Wiebe and Patricia Bauer

51. The Onset of the Executive Control of Action in Joint Attention by 15 to 32 Month-Olds  
   Maria Nunez and Jeanet Ingwersen

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**Th18 High Risk and Pediatric Issues**

52. Use of a Clinical Structured Interview to Delineate Proximal Aspects of the Infant Caregiving Environment in Two High-Risk Samples  
   Kathleen Platzman, Julie Kable and Claire Coles

53. Factors Predicting Behavior from 24 Months to 8 Years in Drug-Exposed Children  
   Claire Coles, Mary Ellen Lynch, Kathleen Platzman, Josephine Brown and Julie Kable

54. Factors Affecting Parents' Visitation in the Neonatal Intensive Care Unit  
   Reija Latva, Liisa Lehtonen, Raili Salmelin and Tuula Tamminen

55. Peripartum Epidural Anesthesia and Sucking Strength in Neonates: An Exploratory Study  
   Randall Zernzach, Lisa Jones, Gennah Stocks, R. Todd Davis and Christine Moon

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**Th19 Undergraduate Research**

56. Parental Warmth and Control as Contributors to Toddler's Shyness  
   Nathan A. Smith and Samuel P. Putnam

57. Young Infants’ Ability to Discriminate Disgust, Novel and Happy Expressions in a Peekaboo Paradigm  
   Donna Mumme and Jennifer DiCorcia
58. Examining the Importance of Parent Relationships on the Outcomes of Toddlers
   Shawna N. Bussey, Cheryl A. Fortner-Wood, James A. Elicker and Ilene C. Noppe

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**Th20 Invited Symposium**

**Perception, Learning and Recall of the Serial Organization of Events**

**Chair:** David J. Lewkowicz  
**11:00 AM - 12:50 PM**  
**Monroe Room**

Perception of Serial Order from Infancy to Early Childhood  
*David Lewkowicz*

From Reaction to Anticipation: Event Structure as an Organizing Influence on Infants' Eye Movements  
*Naomi Wentworth*

The Development of Infants' Perception of Causal Events  
*Leslie Cohen*

Recall of Temporal Order: Behavioral and ERP Indices of Developmental Change  
*Patricia Bauer*

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**Th21 Symposium**

**Pointing in Infancy: Functions, Motives and its Role in Development**

**Chairs:** Ulf Liszkowski and Malinda Carpenter  
**11:00 AM - 12:50 PM**  
**Adams Room**

The Function of Declarative Pointing  
*Ingar Brinck*

Motives and Social-Cognitive Abilities in Infant Pointing  
*Ulf Liszkowski*

Private Pointing and Own attention "In Babies and Children"  
*Begoña Delgado, Juan-Carlos Gómez and Encarnación Sarriá*

Pointing and Information Sharing in Infants  
*Fabia Franco*

Dyadic Social Sensitivity and the Acquisition of Signs and Symbols  
*Susan Leekam and Tracy Solomon*
Th22  Symposium

**Exploring Precursors to Theory of Mind in Infancy with Non-Verbal Tasks**

**Chair:** Kristine H. Onishi  
**11:00 AM - 12:50 PM**  
**Parlor H Room**

- Nonverbal Approaches to Testing False Belief in Comparative and Developmental Research  
  *Josep Call, Malinda Carpenter and Michael Tomasello*

- What Rhesus Monkeys Understand About the Knowledge of Others  
  *Jonathan I. Flombaum and Laurie R. Santos*

- False-Belief Understanding with Invisible Displacement in 15.5-Month-Old Infants  
  *Kristine H. Onishi and Renée Baillargeon*

- Are Early Theory of Mind Insights Based on Statistical Learning?  
  *Ted Ruffman and Mele Taumoepeau*

**Discussant:** *Alan Leslie*

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Th23  Symposium

**Cross-Linguistic Perspectives on Acquisition: Language-Specific and Language-General Influences**

**Chair:** Sandra R. Waxman  
**11:00 AM - 12:50 PM**  
**Crystal Room**

- Evidence for the Extension of Nouns and Adjectives in Italian: New Cross-Linguistic Evidence  
  *Sandra R. Waxman and Maria Teresa Guasti*

- Nouns and Verbs in Early Navajo Acquisition  
  *Dedre Gentner and Lera Boroditsky*

- A Confluence of Cues in Learning to Inflect Palestinian Arabic Adjectives in Plural Contexts  
  *Dorit Ravid and Hunaida Abu Nofal*

**Discussants:** *Susan Goldin-Meadow and Virginia C. Mueller Gathercole*
Th24 Motor and Sensorimotor Behavior
1. Social, Cognitive, Geographic and Biomechanical Factors Affect Infants' Learning to Ascend and Descend Stairs
   Sarah Berger, Carolin Theuring and Karen Adolph
2. The Influence of Mouthing on Infant Vocalization
   Mary Fagan and Jana Iverson
3. Novel Movement Training in Infants with Erb's Palsy
   Susan V. Duff, Anjana N. Bhat, Jill C. Heathcock, Scott H. Kozin and James C. Galloway

Th25 Biological Processes
4. A Quantitative Method to Use High-Density EEG Recording to Localize Cortical Sources of Infant Cognitive Activity
   John E. Richards
5. Human Contact, Pain Reactivity and Visual Attention in Newborns
   Arditi Hadar and Feldman Ruth

Th26 Perception and Attention
6. Maturation of Fetal Voice Processing in Normal and Hypertensive Pregnancies
   Charlotte T. Lee, Ann C. Brown and Barbara S. Kisilevsky
7. Quantitative Estimates of Pitch Strength in 7-Month-Old Infants and Adults Using an Iterated Rippled Noise Stimulus
   Cynthia Zettler, Margaret Faulk, Michelle Follmer, Michael Takagi and Marsha Clarkson
8. Looking at and Interacting with Comprehensible and Incomprehensible Teletubbies
   Anne E. Frankenfield, John R. Richards, Tiffany A. Pempek, Heather L. Kirkorian and Daniel R. Anderson
9. Infant's Facial Learning in Poor Visual Acuity
   Yamaguchi K Masami, Otsuka Yumiko, Shirai Nobu, Kanazawa So and Abdi Herve
    Shirai Nobu, Kanazawa So and Yamaguchi Masami
11. Perception of Depth from Shading in Chimpanzee (Pan troglodytes) and Human (Homo sapiens) Infants.
    Imura Tomoko, Tonomaga Masaki, Yamaguchi-Kanazawa Masami and Yagi Akihiro

Th27 Communication and Language
12. Do Children Use Verbal and Nonverbal Cues to Direct Their Attention to Properties of Objects and Actions?
    Julie Vaughan and Jane B. Childers
13. Relation of Maternal Linguistic Inputs to Lexical Development of Korean Infants
    You-Kyung Chang-Song, Keunyoung Lee, Keumjoo Kwak, Hyunran Sung and Hee-og Sim
14. Object-Label Covariation - A Cue for the Acquisition of Nouns?
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<td>17. One-Year-Olds’ Understanding of the Pointing Gesture as a Cue to Subsequent Action</td>
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<td>27. Infants’ Reasoning About Others’ Behavior: Using Level 1 Knowledge of Visual Perception</td>
<td>Yuyan Luo and Renée Baillargeon</td>
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<td>28. Chronometric Studies of Numerical Cognition in Five-Month-Old Infants</td>
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<td>29. Infants’ Ability to Associate Specific Causal Roles with Animate and Inanimate Objects</td>
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<td>30. Infant Generalization of Interaction Patterns from Mother to Stranger as a Function of</td>
<td>Danielle Kramer-Phelen, Alan Phelen, Beatrice Beebe, Joseph Jaffe and Patricia Cohen</td>
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<td>Maternal Depression and Anxiety</td>
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<td>31. Antecedents of the &quot;Beauty is Good&quot; Stereotype: Infants Associate Facial Attractiveness</td>
<td>Antecedents of the &quot;Beauty is Good&quot; Stereotype: Infants Associate Facial Attractiveness with Positive and Negative Valence</td>
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Angela Griffin, Rebecca Hoss, Jennifer Ramsey, Judith Langlois and Adam Rubenstein

32. The Effect of Group Size on Children’s Social Experience in Home-Based Childcare Settings
   Erin M. Kryzer, Deborah A. Phillips, Deborah Lowe Vandell, Meaghan D. Gustafson and Megan R. Gunnar

33. Does Mother Know Best? Infants’ Use of Mothers’ Unsolicited Advice in a Potentially Risky Motor Task
   Lana B. Karasik, Sharon A. Lobo, Katherine A. Dimitropoulou, Elizabeth A. Zack, Karen E. Adolph and Catherine S. Tamis-LeMonda

34. Relations Between Temperament and Early Peer Interaction in Toddlers’ Joint Play and Cooperative Problem Solving
   Geetha R. Balaraman, Celia A. Brownell, Stephanie Zerwas and Amanda Kimmel

35. The Effect of Contextual and Maternal Variables on Mothers’ Sensitivity to Infant Cries
   Wilberta Donovan, Nicole Taylor and Lewis Leavitt

36. Maternal Learned Helplessness and Sensitivity to Infant Cries: A Signal Detection Analysis
   Wilberta Donovan, Lewis Leavitt and Nicole Taylor

   Carol Harding and Arthur L. Safer

38. How Choice Co-Construction in Infancy Sets the Stage for Life-Long Decision-Making
   Carol Harding and Arthur L. Safer

39. My Size or the Doll’s Size? Doll Play and Scale Errors in Toddlers
   Stephanie Zerwas, Celia Brownell, Geetha Balaraman and Anita Adalja

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**Th30  Emotional Development**

40. Psychopathology in Parents Of Children With Reactive Attachment Disorder(RAD)
   Mukaddes Nahit Motavalli, Abali Osman, Eryonucu Buket and Gecici Omer

41. Individual and Developmental Differences in Attention Regulation During the Still-Face Procedure
   Melissa M. Whitehead and Janet Frick

42. Longitudinal Examination of Fine-Grained Aspects of Temperament During Infancy, Toddlerhood and Early Childhood
   Samuel P. Putnam, Maria A. Gartstein and Mary K. Rothbart

43. Psychological Factors Associated With Men's Reactions to Infant Crying During Videotaped Father-Infant Interactions
   Brenda Lundy, Kristine Jehle, Neil Herrberg and Christa Dillman

44. The Coping with Toddlers’ Negative Emotions Scale
   Tracy L. Spinrad, Nancy Eisenberg, Anne Kupfer, Bridget Gaertner and Nicole Michalik

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**Th31  High Risk and Pediatric Issues**

45. Maternal Stress During Pregnancy: The Relation Between Maternal Stress, Gestational Complications and Neonatal Health
   Minhnoi Wroble Biglan

46. Effects of Maternal Depression During Pregnancy on Maternal Health During Gestation and Labor and Neonatal Health
   Minhnoi Wroble Biglan and Kimberly Wilson

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47. Early Adversity/Institutional Care Influences on the Development of Explicit Memory  
   *Maria Kroupina and Rachel Dayton*
48. Induced Maternal Psychological Arousal Generates a Fetal Response  
   *Janet A. DiPietro, Melissa M. Ghera, Kathleen A. Costigan and Edith D. Gurewitsch*
49. Attention Networks and Related Factors in VLBW Preschool Children  
   *Deborah Winders Davis, Julia Robinson and Barbara Burns*
50. Binge-like Postnatal Alcohol Exposure Induces Alterations in Response Habituation: The  
    Duration & Modality Specificity of Effects  
   *Katherine C. Morasch and Pamela S. Hunt*
51. Social and Emotional Sequelae of Children Born Preterm: Neonatal Risk Status and  
    Infant-Mother Attachment  
   *Suzanne M. Cox, Sydney L. Hans and Elizabeth Buvinger*

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   *Gerald Mahoney and Frida Perales* |
| 53. | Maternal Obsessionality in a Non-Clinical Sample: Relations to Parenting Style and  
    Child Obsessionality  
   *Amanda Tarullo and Alice Carter* |

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   *Nancy Aaron Jones* |

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    Temperament and Quality of Maternal Interventions  
   *Elizabeth Malesa, Bella Guner, Amie Ashley Hane and Nathan A. Fox* |
| 56. | The Relation Between Maternal Report of Infant Temperament and Degree of Shared  
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   *Alison Schlenger, Melissa M. Ghera, Ian Hitchcock, Amie Ashley Hane and Nathan A.  
    Fox* |
| 57. | The Effects of Neonatal Intervention on Young Adult Learning and Memory in Long-  
    Evans Hooded Rats  
   *Erin R. Didion and Penny Seymoure* |

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| 58. | Volunteer Bias in Infancy Research: How Generalizable Are the Findings?  
   *Dana B. Narter, Shanti Pepper and Lauren N. Mathieu* |
**Th36 Invited Symposium**

Crying and Colic Among Infants Receiving Western and Non-Western, Forms of Care: Comparative Studies from Five Countries

**Chair:** Ian St. James-Roberts

1:00 PM - 2:50 PM

Adams Room

- Infant and Caregiver 'Demand': Crying and Contact in 5-Month Olds
  *Ronald G. Barr, Nicole Calinoiu and Mark Zocolillo*

- Infant Crying in the First Two Months: An Italian Diaries Study
  *Sabrina Bonichini, Giovanna Axia, Ian St James-Roberts and Samantha DeCian*

- Early Infant Crying and Caregiver Behavior in Denmark and England: Cross-cultural Findings from Behavior Diaries and Systematic Home Observations
  *Marissa Alvarez and Esther R. Sorgenfrei*

- Crying and Unsoothable Crying, Among London Infants Receiving Normal Community Versus ‘Proximal’ Care
  *Ian St James-Roberts, Jennifer Goodwin, Emese Cspike and Tanya Abramsky*

- Infant Distress and Sleeping Patterns and Tight Traditional Swaddling in Mongolia: A Randomised Controlled Trial
  *Semira Manaseki-Holland, Ian St James-Roberts, Tom Marshall, Anthony Costello and Tsogzolmaa Bayandorj*

**Th37 Invited Symposium**

Infant Vocal Development and Foundations for the Linguistic Capacity

**Chair:** Kimbrough D. Oller

1:00 PM - 2:50 PM

Monroe Room

- Vocal Contextual Freedom in the First Months of Life
  *Kimbrough D. Oller and Eugene H. Buder*

- Parametric Representations for the Acoustic Study of Infant Vocalization
  *Eugene H. Buder and Kimbrough D. Oller*

- Relationships Between Sound Forms and Functions in Infancy
  *Suneeti Nathani*

  Discussants: *William P. Fifer and John L. Locke*
Th38 Symposium

The Emergence of Predictive Visual Tracking of Temporarily Occluded Moving Objects.

Chair: Claes von Hofsten
1:00 PM - 2:50 PM
Parlor H Room

On the Emergence of Predictive Occluder Tracking in Young Infants
Claes von Hofsten, Olga Kochukhova and Kerstin Rosander

Development of Predictive Tracking: Perceptual vs Statistical Learning
Bennett I. Bertenthal and Matthew Longo

Moving Sounds and Moving Objects: The Role of Intermodal Perception in Solving the Problem of Occlusion
Natasha Kirkham and Scott P. Johnson

Evidence of Early Spatiotemporal Representations During Occlusion
Gustaf Gredebäck, Olga Kochukhova and Claes von Hofsten

A Neural Correlate of Object Representation During Occlusion in 6-Month-Old Infants.
Jordy Kaufman, Gergely Csibra and Mark H. Johnson

Discussant: Elizabeth Spelke

Th39 Symposium

Temperamental and Self-Regulatory Processes in Cognitive Performance and Social Behavior

Chair: Koraly E. Perez-Edgar
1:00 PM - 2:50 PM
Crystal Room

Electrophysiological and Temperamental Correlates of Cognitive Development in Infancy
Koraly Perez-Edgar and Nathan A. Fox

Attention and Self-Regulation in the A-not-B Task: Infants’ Regulatory Strategies
Thomas Keenan

Individual Differences in the Adaptiveness of Self-Control
Heather A. Henderson

Emotional Effects on Cortical Mechanisms of Self-Regulation in Preschool Children
Thursday, May 6
Marc D. Lewis and Rebecca Todd

Discussant: Susan D. Calkins

**Poster Session**
1:30 PM – 3:30 PM
Empire Room

**Th40 Motor and Sensorimotor Behavior**
1. Examining 3-Month-Old Infants Abilities to Learn to Produce Alternate Kicking
   *Chad Tiernan and Rosa Angulo-Barroso*
2. Whole Body Movements Converged on Upper Limb Movement in 1-to 6-Month-Old
   *Takaya Rieko, Midorikawa Akira and Saito Miki*
3. Effect of Positioning on Very-Low-Birth-Weight Infants Using the Dubowitz Assessment
   *Hideki Kihara, Hisae Nakai and Tomohiko Nakamura*
4. Shake, Babble and Bounce: Is Increased Motor Rhythmicity at Babble Onset Specific to the Manual System?
   *Jana M. Iverson, Robert H. Wozniak, Travis Thompson and Tracy Nyerges*

**Th41 Biological Processes**
5. Features of Spontaneous Eye Blinking in Young Infants
   *Leigh Bacher, Whitney Chase and William P. Smotherman*
6. Fetal Cerebral Blood Flow Velocity and Movement Across Late Gestation: Evidence for Early Lateralization
   *Katrina Cederberg, Eugene K. Emory, John N. I. Dieter, Dawn P. Iliardi and Denise B. Raynor*

**Th42 Perception and Attention**
7. Visual Search for Color in Four-Month Old Infants: The Effect of Linear Separability.
   *Anna Franklin, Christine Daoutis, Ally Clifford, Amy Riddett and Ian Davies*
8. Development of Modal and Amodal Completion in Infants.
   *Otsuka Yumiko, Kanazawa So and Masami K. Yamaguchi*
9. Feeding-Based Arousal Effects on Visual Recognition Memory in CNS-Compromised Neonates
   *Ronny Geva, Judith M. Gardner and Bernard Z. Karmel*
10. Attention to Fearful Stimuli: Even Children Can Detect the Snake in the Grass
    *Vanessa LoBue and Judy DeLoache*
11. Different Gestalt Processes for Reaching and Looking Behaviors?: Assessment of Motion and Separation Cues
    *Peter M. Vishton, Elizabeth A. Ware and Aimee A. Mayuga*
12. Attentional Deployment and Object Recognition in 4- and 8- Month Old Infants
    *Robert Haaf, Anne L. Fulkerson, Stacey S. Shull, James Todd, Julie Hupp and Brandon Jablonski*
Th43 Communication and Language

13. Verb Acquisition in French: Lexical Comprehension and Sensitivity to Subject-Verb Agreement at 18 and 24 Months
   *Nazzi Thierry, Barriere Isabelle, Legendre Geraldine, Nicol Tamara and Long Stephanie*

14. Transfer in Statistical Learning from More to Less Reliably Cued Structure
   *Jill Lany and Rebecca Gomez*

15. Twelve-Month-Olds Categorize Novel Words Using Distributional Information
   *Toben H. Mintz*

   *Assanelli Alessandra, D'Odorico Laura and Fabia Franco*

17. Infants’ Discrimination of Affect in Music and Speech
   *Katie Gordon, Seth Gunderson, Sarah Wood, Melinda Allen and Ross Flom*

18. Polly Want a Cracker? On Talking to Babies, Puppies and Parrots
   *Nan Xu, Denis Burnham, Christine Kitamura and Uté Vollmer-Conna*

19. Temporal Changes in Infant Crying and Adults' Judgments of Cry Distress
   *Rebecca Wood*

20. More isn’t Always Better: Three-Year-Olds Master Intransitive Verbs
   *Mandy J. Maguire, Shannon M. Pruden, Kathy Hirsh-Pasek, Natalie Hansell and Meredith A. Meyer*

Th44 Cognition Memory and Learning

21. Evidence for Correct Predictions in Infants Who Fail to Search Correctly
   *Victoria Southgate, Juan-Carlos Gomez and Kerstin Meints*

22. Newborns Recognize and Prefer Mother's Voice: Rich Prosody Not Required
   *Christine Moon, Jung Chong and Randall Zernzach*

23. Do Infants Control Their Actions by Anticipating Interesting Action Effects?
   *Gisa Aschersleben and Petra Hauf*

   *Petra Hauf, Annette Klein and Gisa Aschersleben*

25. Scaffolding and Modeling as Mechanisms of Infant Problem Solving Development
   *Katherine H. Grobman and Rick O. Gilmore*

26. Very Young Children's Insensitivity to Picture Book Orientation Extends to Face Pictures
   *Cynthia Chiong and Judy DeLoache*

27. Infants' Use of Color and Luminance Differences to Individuate Objects
   *Rebecca Woods and Teresa Wilcox*

28. The Role of Functional Knowledge for Infant Categorization of Artifacts
   *Birgit Traeuble and Sabina Pauen*

29. The Role of Working Memory in Infants' Expectations
   *Scott A. Adler, Krista Prising and Soohee Jung*

30. Children Form Concepts of Others’ Preferences
   *Christine Fawcett and Lori Markson*

Th45 Social Development

31. Fathering in Infancy: A Quantitative and Qualitative Examination of Past and Current Relationships
   *Jacqueline Shannon, Elizabeth Felleman, Karen McFadden and Ana-Maria Pinter*
32. Mother-Child Engagements: Behavioral and Psychological Influences
   Karen McFadden, Ana Maria Pinter, Elizabeth Felleman and Neda Bebiroglu,
33. A Longitudinal Examination of Inner-City Fathers at Play with Their 6 and 24-Month Olds
   Ana-Maria Pinter, Karen McFadden, Jacqueline Shannon, Elizabeth Felleman and
   Vanessa Rodriguez
34. Young Children's Prosocial Behavior to Peers in Constructivist Classrooms
   Elizabeth Vale, Cathleen Smith, Karen Bassett, Joni Jannsen and Thomas Kindermann
35. Maternal Sensitivity and Behavior Problems: The Moderating Effect of At-Risk Status
   Katherine E. Bono and Claire B. Kopp
36. Relations Among Contingent Social Experience, Joint Attention and Infant Behavior and
   Emotion at 9, 12, & 18 Months
   Kimberly Carpenter
37. Initiating Joint Attention and Self-Recognition in Infants
   Kate Nichols, Koraly Perez-Edgar, Nathan Fox and Peter Mundy

Th46 Emotional Development
38. Stress and Memory in Young Children: Attachment as Moderator
   Kate Nichols
39. Sensitivity and Attachment: A Second Perspective on De Woolf and van IJzendoorn’s
   Meta-Analysis
   M. Angela Nievar and Betsy Becker
40. Maternal Depressive Symptoms, Maternal Behavior and Social, Emotional and Cognitive
   Development in Toddlerhood
   Roli Mohan and Susan B. Campbell
41. Maternal and Paternal Sensitivity, Child Self-Control and Cognitive Functioning at 36
   Months
   Patricia Matestic
42. Associations Between Temperament and Coparenting Quality in Families with Infants
   Sarah J. Schoppe-Sullivan, Margaret Szewczyk Sokolowski, Geoffrey L. Brown, Kathryn
   D. Beggs and Sarah C. Mangelsdorf

Th47 Risk and Pediatric Issues
43. Looking Behavior in Infants Exposed to Insufficient Thyroid Hormone In Utero
   Joanne Rovet, Sarah Roberts, Giuseppe Mirabella and Denice Feig
44. Visual Attention in Infants Exposed to Insufficient Thyroid Hormone in Utero
   Joanne Rovet and Ted Balant
45. Preliminary Findings from an ERP Study of Memory Processing in Iron Deficient Infants
   Matthew J. Burden, Rinat Armony-Sivan, Alissa Westerlund, Sandra W. Jacobson, Betsy
   Lozoff, Charles Nelson and Joseph L. Jacobson
46. Prenatal Alcohol Exposure, Iron Deficiency Anemia and Postnatal Growth
   Rinat Armony-Sivan, Sandra W. Jacobson, Christopher D. Molteno, Colin R. Carter,
   Denis L. Viljoen and Joseph L. Jacobson
47. Maternal Substance Use, Maternal Behavior during Mother-Infant Feeding Interactions
   and Possible Meditors of Risk
   Kelli Houser, Rina Das Eiden and Pamela Schuetze
48. Maternal Depression During Pregnancy: Associations with Newborns’ Brazelton Scores and Stress-Related Cortisol Levels  
*Sherryl Goodman, Erin Tully, Christine Hall and Marisa Lascher*

49. Domestic Violence, ‘Super’ Security and Emergence of Self  
*Margaret McKim, Esther Cherland, Cheryl Sampson, Marnee Maroes and Joel Tourigny*

**Th48 Psychopathology and Developmental Delay**

*Amy Buchanan and Jeanne M. Wilcox*

51. Predictors of Effortful Control Among Children of Alcoholic and Non-Alcoholic Fathers  
*Rina Eiden, Ellen Edwards and Kenneth Leonard*

**Th49 Early Environments and Social Policy**

52. Mother-Father Conflict in Low-Income Populations: Parental Conflict in Relation to External Stressors and Child-Outcomes  
*Elizabeth Felleman, Neda Bebiroglu, Ana-Maria Pinter, Karen McFadden and Jacqueline Shannon*

53. Interruptions to the Breastfeeding Process During the First Postpartum Day  
*Barbara Morrison and Gene Anderson*

**Th50 Undergraduate Research**

54. Do Infants Really Understand Object Impermeability?  
*Shanna Irvin and Jana Iverson*

55. Infants’ Comprehension and Preference in Producing a Novel Word and Novel Gesture  
*Tara Kakty, Caryn Kerman, Erica Roizen, Geunwon Kim and Marianella Casasola*

56. Maternal Loss, Family History and Mother-Toddler Interaction as Predictors of Disorganized Attachment in Infants Born Preterm  
*Brooke Natchev, Suzanne Cox and Vesselin Natchev*

**Th51 Other**

57. Training Non-Psychologists from Diverse Cultures to Administer Standardized Developmental Tests to Infants for Large-Scale Studies  
*Elizabeth Spier, Amy Damast, Susan Sprachman, Semira Manaseki-Holland and Margo Salem*

58. The Developmental Changes of the Touch Patterns from Caregivers During Infancy in South Korea  
*Kim Suchung, Keumjoo Kwak, Hyunran Sung, You-Kyoung Chang-Song and Sim Hee-og*

**Th52 Symposium**

**New Perspectives on Infant Categorization**

*Chair: Teresa Wilcox*  
**3:00 PM - 4:50 PM**  
**Adams Room**
Infants Use Appearance and Function to Form Categories  
Lisa M. Oakes, Jessica S. Horst and Kelly L. Madole

Two Mechanisms by which Function Facilitates Early Categorization  
Amy Booth and Sandra Waxman

The Nature of Color-Function Categories that Support Color Priming in Individuation Tasks  
Teresa Wilcox and Catherine Chapa

A Non-Lexical Shape Bias in 14-Month-Old Infants  
Gil Diesendruck, Susan Graham and Susan Onysyk

Discussant: Paul Bloom

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**Th53 Symposium**

**The Big Questions of Infant Cognition: Trenchant Debate, Tentative Answers**

**Chair:** Scott P. Johnson  
**3:00 PM - 4:50 PM**  
**Parlor H Room**

Asking HOW not WHAT: The Role of Neural Computational Models in Cognitive Development Research  
*Denis Mareschal*

Why Did You Do That? Delineating the Bases for Categorization and Induction in Infancy  
*David Rakison*

Exploring Mechanisms of Change in Infants' Word Learning Abilities During the Second Year  
*Laura Namy*

Developmental Origins of Object Concepts  
*Scott Johnson*

Discussants: *Linda Smith*
**Th54 Symposium**

**The Detection and Elaboration of Goal-Directed Actions and Agents**

**Chair:** Susan C Johnson  
**3:00 PM - 4:50 PM**  
**Monroe Room**

Understanding Actions as Goal-Directed in Infancy  
*Szilvia Biro and Alan M. Leslie*

A Cue-Based Approach to the Early Origins of Goal Attribution in Infancy  
*Ildikó Király and György Gergely*

Reasoning About Present Dispositions Based on Past Interactions  
*Valerie Kuhlmeier, Karen Wynn and Paul Bloom*

Young Infants' Reasoning About a Novel Agent  
*Yuyan Luo and Renée Baillargeon*

The Attribution of Goals as a Possible Precursor to the Categorization of Tools in 12-Month-Olds  
*Susan Johnson and Alpha Y. Shimizu*

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**Th55 Invited Symposium**

**Critical Periods Re-examined: Evidence from Human Sensory Development**

**Chair:** Daphne Maurer  
**3:00 PM - 4:50 PM**  
**Crystal Room**

Development of Face Processing: Are There Critical Periods? Plasticity During Normal Development and After Early Brain Damage  
*Scania de Schonen and S. Sangrigoli*

Sensitive Periods for Visual Development: Lessons from Children Treated for Cataracts  
*Daphne Maurer and Terri L. Lewis*

Speech Perception as a Window for Understanding Plasticity and Commitment in Language Systems of the Brain  
*Janet F. Werker*

Are There Sensitive Periods for Musical Acquisition?  
*Laurel Trainor, Judy Plantinga and Larry E. Roberts*

Discussant: George Michel
Keynote Address (Chair: George F. Michel)

Biological Intelligence: An Old Theory Now Frail and Failing

Prof. Douglas Wahlsten
5:10 PM – 6:15 PM
Red Lacqure Room
Fr01  **Roundtable Breakfast Discussion**  
**Progress, Puzzles and Prospects in Infant Crying Research**  
*Chair:* Ian St. James-Roberts  
*7:20 AM - 8:50 AM*  
*Adams Room*

Fr02  **Roundtable Breakfast Discussion**  
**Cross-talk: Reconsidering Domain Specificity and Domain Generality in Infant Cognition**  
*Chairs:* Katherine Hirsch-Pasek, Nora Newcombe and Roberta Golinkoff  
*7:20 AM - 8:50 AM*  
*Monroe Room*

Fr03  **Roundtable Breakfast Discussion**  
**Infancy Research and Critical Pedagogy: Toward a Scholarship of Teaching and Learning in Developmental**  
*Chairs:* Wendy L. Ostroff  
*7:20 AM - 8:50 AM*  
*Parlor H Room*

Fr04  **Roundtable Breakfast Discussion**  
**Irreconcilable Differences? The Relationship of Development and Evolution**  
*Chair:* David S. Moore  
*7:20 AM - 8:50 AM*  
*Wabash Room*

Fr05  **Symposium**  
**Music and Mind: Perspectives from Infants**  
*Chair:* Sandra E. Trehub  
*9:00 AM - 10:50 AM*  
*Adams Room*  
*Long-term Memory Representations for Music: Encoding Tempo, Timbre and Pitch*  
*Laurel Trainor and Judy Plantinga*
Memory for Pitch Information in Songs
Anna Volkova, Sandra Trehub and Glenn Schellenberg

Metrical Categories in Infancy and Adulthood
Erin Hannon

Infants' Perception of Emotion in Music
Elizabeth Nawrot, Autumn Ascano and Douglas Gentile

Discussant: Sandra Trehub

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**Fr06 Symposium**

**Facilitating Infants’ Representations and Actions**

*Chair:* Su-hua Wang  
**9:00 AM - 10:50 AM**  
**Monroe Room**

- Multisensory Exploration Increases 10.5-Month-Olds’ Sensitivity to Color Information in an Individuation Task
  *Teresa Wilcox, Catherine Chapa and Rebecca Woods*

- From Observation to Action: Teaching 9.5-Month-Old Infants to Attend to Height Information  
  *Su-hua Wang*

- Necessity is the Mother of Invention: Infants’ Tool-Use Depends on Context-Specific Factors  
  *Sarah Berger and Karen E. Adolph*

- Prior Experience Influences Tool Use in 13- to 17-Month-Old Infants  
  *Tracy Barrett and Amy Needham*

  Discussant: Peter Willatts

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**Fr07 Symposium**

**Mothers and Their Toddlers in Social Context: Exploring Correlates and Outcomes of Maternal Behavior**

*Chair:* Hui-Chin Hsu  
**9:00 AM - 10:50 AM**  
**Parlor H Room**
Separation Anxiety in Mothers of One-Year-Olds: Its Association with Maternal Behavior
Hui-Chin Hsu

Gender, Maternal Attention Directing and Language at 12 and 18 Months of Age
Barbara D’Entremont, Sarah MacAulay and Rosyln Morgan

Laughter in Maternal Toddler-Directed Speech
Eva Nwokah

Discussants: Ilse De Koeyer

Fr08 Symposium

The Role of Infants in Family Relationships Across the Life-Span
Chair: Katherine Karraker
9:00 AM - 10:50 AM
Wabash Room

Infancy in Life-Span Perspective: Relationships Between Infants and Family Members
Katherine Karraker, Cheryl Wiedman and Priscilla Coleman

How an Infant Sibling Changes the Life of a Preschool Child
Laurie Kramer

Contextual Factors in the Development of Coparenting during the Transition to Parenthood
Laurie Van Egeren

Grandchild-Grandparent Relationships: Resources, Risks and Resilience
Julie Poehlmann, AJ Miller Schwichtenberg, Kristie Benton, Kristi Voegtline and Rebecca Seifert

Discussant: Toni Antonucci

Fr09 Symposium

Role of Maternal Mood & Personality Disorder in Mother-Infant Interactive and Regulatory Capacities: Implications for Intervention
Chair: Roseanne Clark
11:00 AM - 12:50 PM
Wabash Room

Effects of Maternal Panic Disorder and Maternal Depression on Mother-Infant Interaction in the Still-Face Paradigm
Katherine M. Weinberg, Majorie Beehly and Edward Z. Tronick
Is Postnatal Depression a Borderline Condition Impeaching Mother-Infant Interaction?
Gisèle Apter-Danon, R. Graignic-Philippe, E. Devouche, M. Valente-Gianoli and A. Le Nestour-Crevillé

Maternal Depression at 6 Weeks Postpartum and Mother-Infant Self- and Interactive Regulation: Research and Treatment
Beatrice Beebe, J. Chen, H. Jaffe, P.M. Cohen and K. Buck

Treatment of Postpartum Depression in Mothers: Secondary Benefits to the Infants
Sherryl Goodman, Michelle R. Broth, Christine M. Hall and Zachary N. Stowe

Interventions for Maternal Depression: Contributions of Comorbid Conditions to Mother-Infant Interaction and Regulatory Capacities
Roseanne Clark, Erri Hewitt and Kathleen Hipke

Discussant: Edward Z. Tronick

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**Poster Session**
9:30 AM – 11:30 AM
Empire Room

**Fr10 Motor and Sensorimotor Behavior**
1. Is Infants’ Catching Tuned to Physical or Biological Motion?
   *Pär Nyström, Hellena Grönqvist and Claes von Hofsten*

**Fr11 Biological Processes**
2. Does the Heart Rate Variability Relate with Infant’s Behavior? The Relationship Between Heart Rate Variability and Brazelton Scale
   *Akira Saito and Hiroshi Tada*
3. Non-Smoking Adults React Negatively to a Tobacco Smoke Odor but Newborns Do Not
   *Carolyn Granier-Deferre, Benoist Schaal, Anthony DeCasper, Sophie Bassereau and Anne-Yvonne Jacquet*

**Fr12 Perception and Attention**
4. Familiarization in Infants' Perception of Addition Problems
   *Melissa W. Clearfield and Shannon Westfahl*
5. Gestalt Processing and Object-Directed Reaching: Assessment of Shape and Color Cues to Object Separation
   *Elizabeth A. Ware, Iida K. Covington and Peter M. Vishton*
6. Recognition of the Mother’s Face in the First Year of Life as Measured with a VP Task: Just When You Thought You Knew it All…
   *Marianne Rotsaert, Astri Robinson, Alan Gibson, Mike Smith and Olivier Pascalis*
7. Small Ratio Number Discrimination in 10-Month-Old Infants  
Rosa Arriaga and Fei Xu

8. Auditory Stimulus can Modulate the Latency of Saccade to a Visual Target in Infants  
Masaharu Kato, Kazuo Hiraki, Kazunori Kamewari and Yukuo Konishi

9. Face Processing in Infancy: Developmental Changes in the Use of Different kinds of Relational Information  
Ramesh Bhatt, Evelin Bertin and Angela Hayden

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**Fr13 Communication and Language**

10. The Effect of Joint Attention Training for Child Care Providers on the Language Development of Young Children  
Loretta Cooper Rudd, David W. Cain and Terrill F. Saxon

Andrea S. McDuffie and Paul J. Yoder

12. Conjoint Influences of Emotional Valence and Speaking Rate on Preferences for Infant-Directed Speech Across Age  
Robin Cooper, Christine Kitamura, Karen Mattock and Denis Burnham

13. Infants’ Perception of Place of Articulation and Voicing in Word-Initial and Word-Final Position  
Tania S. Zamuner

14. Infants’ Ability to Distinguish Vowel Contrasts in a Word Learning Task  
Christopher Fennell and Suzanne Curtin

15. A New Motive of Infant Pointing: 12- and 18-Month Olds Point to Inform Others  
Ulf Liszkowski, Malinda Carpenter, Tricia Striano and Michael Tomasello

16. Scaffolding the Nonpresent: Mothers' Absent Object Reference from 14 to 22 Months  
Priya Shimpi and Janellen Huttenlocher

17. The Role of Labels in a Manual Search Object Individuation Task  
Melissa Cote, Allison Baker and Fei Xu

18. “Shhh! We’re Tryin’ to Concentrate”: Attention and Environmental Distraction in Novel Word Learning  
Wallace E. Dixon, Brenda J. Salley, Sara M. Loudermilk and Stacy Barner

19. Cross-Language Perception of Lexical Tone: Developmental Reorganisation for Lexical Tone but not 'Pitch'  
Karen Mattock and Denis Burnham

20. Maternal Bookreading to Low-Income Infants and Toddlers: Inputs and Effects on Language and Cognitive Development  
Helen Raikes, Louisa Tarullo, Barbara Pan and Gayle Luze

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**Fr14 Cognition Memory and Learning**

21. Phoneme Discrimination in Early Infancy: Comparison of Behavioral and Electrophysiological Results  
Stefanie Kruck, Barbara Höhle, Karsten Nubel, Jürgen Weissenborn and Manfred Gross

22. Intention to Represent in the Drawings of 2- to 5-Year-Olds  
Tara Callaghan and Philippe Rochat
23. TouchStat v. 3.00: A New and Improved Monte Carlo Method for Calculating Sequential Touching Probabilities
   Wallace E. Dixon Jr. and Michael Watkins
24. Early Word Learning from Picture Books
   Patricia Ganea and Judy DeLoache
25. Children Can Use the Solidity Principle If They Make The Choice
   Bruce Hood, Karen Hector and Ruth Kamrowski
26. Sandwich or Soap? Object Substitution during Pretend Play by Very Young Children
   Dawn K. Melzer and Marvin W. Daehler
27. The Role of Parallel Attention in Infants’ Ability to Sum Across Object Representations
   Lisa Feigenson and Amanda Brandone
28. The Acquisition of Conceptualization of Color, Form and Other Attributes in Korean Infants
   Hyunran Sung, Kijo Bae, Keumjoo Kwak, You-Kyung Chang Song and Hee-og Sim
29. Infants’ Use of Attentional Cues to Predict Another Person’s Search Behavior
   Diane Poulin-Dubois, Tamara L. Demke, Renee St. Pierre and Kara M. Olineck
30. Infants’ Developing Knowledge of a Causal Agent
   Leslie B. Cohen, Cara H. Cashon and Leslie J. Rundell
31. Face Perception by Young Infants: Effects of Geometric Variability and Orientation
   Scott Adler and Jazmine Orprecio

Fr15 Social Development
32. Perinatal Risk Factors for Emotional Problems in Preschool
   Sara Vagi, Christine Delgado and Keith Scott
33. Predictive Linkages Between Mother-Infant Co-Regulation, Developmental Status and Attachment Security
   Cortney A. Evans, Rebecca L. Farmer and Chris L. Porter
34. Fun or failure? Young Children Systematically Distinguish Serious from Non-Serious Actions
   Hannes Rakoczy
35. Nonverbal Social-Communicative Development in Institutionalized Children in Armenia
   Carol Weitzman, Lorky Libaridian, George Melikian, James Dziura and Andrew Geier
36. Parents’ Beliefs About Infants’ Crawling
   Shaziela Ishak-Mohammed
37. Effects of Children’s Age and Expertise on Mothers’ Verbal and Gestural Communications
   Katherine Dimitropoulou, Catherine Tamis-LeMonda, Karen Adolph and Martha Alibali
38. The Role of Infant Touching Behaviours During Social Interactions
   Robin Moszkowski and Dale Stack

Fr16 Emotional Development
   Rebecca L. Farmer, Chris L. Porter and Cortney Evans
40. Infant Temperament And Maternal Behavior As Predictors Of Object Mastery Motivation At 24 Months
   Nino Badridze, Naseem Choudhury and April A. Benasich

41. The Influence of Children's Temperament on Maternal Behavior During a Distressing Situation
   Nichole Christiansen, Liliya Endres, Jeanne Valerio, Michelle Hurley and Michael Morales

42. Children’s Nonverbal Communication Skills and Emotion Regulation
   Ruth Starke, Ferne Pinard, Rheta Vann, Michelle Hurley and Michael Morales

43. Relations Between Affect Expression and Language Use in Toddlers
   Rebecca Bolnick, Claire Champion, Jeffrey Liew, Tracy Spinrad and Nancy Eisenberg

44. Toddler Language Status and Emotional Quality of Mother-Child Interaction
   Pamela M. Cole, Keith A. Crnic, Keith Nelson, Kristy J. Finlon and Clancy B. Blair

45. Maternal Sensitivity to Infant Distress and Non-Distress at 6 Months as Predictors of Attachment Security at 15 Months
   Nancy McElwain and Cathryn Booth-LaForce

46. Associations Between Maternal Depression, Paternal Psychopathology and Toddler Behavior Problems
   Laura J. Dietz

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**Fr17 High Risk and Pediatric Issues**

47. Attention Problems in Preterm and Full Term 3-year-Olds as Assessed by the ANSER System
   Dianne Creighton, Deborah Dewey, Susan Crawford and Reg Sauve

48. Aggressive Behavior Problems at Age 3 in Preterm and Full Term Children
   Dianne Creighton, Deborah Dewey, Susan Crawford and Reg Sauve

49. Diurnal Salivary Cortisol Patterns of Mothers and Their Infants Born at Term and Prematurely
   Madalynn Neu and Mark Laudenslager

50. Early Detection of Cerebral Palsy in Preterm Infants: Quantification of Observed Motor Behavior Using the Nasa Postural Video Analysis Tool
   Eilish Byrne, Jessica Rose and Janet Constantinou

51. Predicting Behavior Problems at 3 Years in Children with Prenatal Cocaine Exposure: Structural Equation Modeling with a Prospectively Enrolled Sample
   Tamara Warner, Fonda Davis Eyler, Marylou Behnke, Cynthia Wilson Garvan and Wei Hou

52. Infant Massage: Effects on Infants in Ecuadorian and Haitian Orphanages
   Vonda Jump and Jeni Weston

53. Mother-Infant Interaction: Immature Style in Preterm Infants Born < 29 Weeks?
   Julianne Petrie-Thomas and Ruth Eckstein Grunau

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**Fr18 Psychopathology and Developmental Delay**

54. Consequences of Interpersonal Violence Exposure on Maternal Perception and Behavior with Young Children
   Daniel S. Schechter, Tammy Coots, Charles H. Zeanah, Tammy Kaminer, Mark Davies, Michael M. Myers and Michael R. Liebowitz
Fr19 Early Environments and Social Policy
54. The Development of Play in Young Toddlers Attending Early Head Start
   Elisa Vele, Samantha Berkule and Ronit Kahana-Kalman

Fr20 Undergraduate Research
55. Maternal Speech about Present and Absent Things
   Catherine Gallerani

Fr21 Other
56. Korean Mothers' Perception of Their Infants' Everyday Emotions
   Lee Jiyeon, Suchung Kim, Kim Wonkyung and Keumjoo Kwak
57. The Relationship among Mothers' Depression and Infants' Lexical Development
   Rho Younghee, Lee Jiyeon and You-Kyung Chang-Song
58. The Relations Among Play, Object Permanence and Vocabulary Development Across the Second Year
   Lee Jiyeon, Bae Kijo, Cho Yoonkyung, Kim Suchung and Kim Wonkyung

Fr22 Symposium
The Many Faces and Uses of Still-Face Paradigm
Chair: Nanmathi Manian
11:00 AM - 12:50 PM
Adams Room

The Still-Face: Historical Themes and Current Directions
Janet E. Frick, Lauren B. Adamson, Brooke P. Robertson and Melissa M. Whitehead

Maternal Depression and Mother-Infant Interactions: The Role of Still-Face Manipulation
Nanmathi Manian, Maurice O. Haynes and Marc H. Bornstein

Mothers’ Representations of Their Infants and Infant Still Face Response: Individual Differences and Patterns of Stability
Katherine L. Rosenblum and Maria Muzik

Preschool-Aged Children’s Reactions to the Still-Face
Katherine M. Weinberg

Discussants: Ed Tronick and Julia M. Braungart-Rieker
Fr23 Invited Symposium

**Development in the Active Voice: Relationships Between Social and Vocal Development in Infancy**

**Chair:** Michael H. Goldstein  
**11:00 AM - 12:50 PM**  
**Monroe Room**

- Development of a Vocal Communication System in Infancy
  *Gwen Gustafson, James Green and Xin Chen*

- Rhythms of Relatedness: The Role of Early Mother-Infant Vocal Coregulation in Early Social-Emotional Development
  *Amie Hane and Stanley Feldstein*

- Vocal Development is Shaped by Social Forces
  *Michael Goldstein, Anya Wachterhauser and Jennifer Stone*

- Children’s Early Vocalizations in Three Linguistic Environments
  *Marc Bornstein and Linda Cote*

**Discussant:** D. Kimbrough Oller

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Fr24 Invited Symposium

**Frontier of Infant Studies in Japan**

**Chair:** Ichiro Uchiyama  
**11:00 AM - 12:50 PM**  
**Crystal Room**

- Developing the Brain: New and Precise Approaches to Learning and Education through Brain-Function Imaging
  *Hideaki Koizumi, A. Maki, Y. Hirabayashi, T. Yamamoto, H. Kawaguchi, Yukuo Konishi and Taga Gentaro*

- Complex Systems Approach to Motor, Perceptual and Cognitive Development in Early Infancy
  *Taga Gentaro*

- A Constructive Model of Mother-Infant Interaction Towards Infants' Vowel Articulation
  *Asada Minoru, Yuichiro Yoshikawa and Hosoda Koh*

**Discussants:** Konishi Yukuo, Sinoda Takeharu and Joseph J. Campos
Poster Session
11:30 AM – 1:30 PM
Empire Room

Fr25 Motor and Sensorimotor Behavior
1. Spontaneous Motor Activity and Milestone Achievement in Infants with and without Down Syndrome
   Sandra McKay, Ryan Shinska and Rosa Angulo-Barroso
2. Sleeping Patterns and Night Activity of Infants with and without Down Syndrome
   Ryan Shinska, Sandra McKay and Rosa Angulo-Barroso
3. Learning to Walk: Changes in Arm Position and Individual Differences
   Winona Snapp-Childs and Daniela Corbetta
4. Spatio-Temporal Patterns of Early Arm Movements
   Anjana Bhat, Jill Heathcock, Michele Lobo and James Galloway
5. Object Exploration and Imitation of manual Behaviours by Infants
   Jacqueline Fagard and Jeffrey Lockman
6. Exploring Infant Movement during a Mobile Task
   Donna Fisher-Thompson, Tara Allen, Amanda Young and Monica Wagner

Fr26 Perception and Attention
7. Where Infants Look: Do Behavioral Strategies Simplify the Task?
   Donna Fisher-Thompson, Tanya Poeller and Kari Nelson
8. Infants’ Perception of 4-Element Audiovisual Sequences
   David Lewkowicz and Stuart Marcovitch
9. Variations in the 28 Week Old Premature Infants' Response to Human Speech
   Charlene Krueger
10. The Development of Temporal Resolution: Measuring Between-Channel Gap Detection in Infants and Adults
    Nicholas Smith, Charlene Kroeze and Laurel Trainor
11. Cortical Source Localization of Infant Visual Attention and Recognition Memory
    Greg Reynolds and John Richards
12. The Role of Early Experience in Face Processing
    Robert Shannon, Lisa Scott, Elizabeth Nicholson, David Kelly, Olivier Pascalis and Charles Nelson
    James Tse, Kimberly S. Kraebel, Ravikumar Makam and Peter Gerhardstein

Fr27 Communication and Language
    Cass D. Foursha, Gretchen A. Van de Walle and Jennifer B. Austin
15. What’s in the Words: Charting the Function of Mother’s Speech in the First Year
    Christine Kitamura, Denis Burnham and Nicole Goozee
16. Maternal Speech at 1 and 3 Months
   Anne Henning, Tricia Striano and Elena V. M. Lieven
17. Maternal Input and Statistical Learning Ability in Infants.
   Mele Taumoepeau and Ted Ruffman
18. Following Pointing. Does Gesture Trigger Shifts of Visual Attention in Human Infants?
   Katharina J. Rohlfing, Matthew R. Longo and Bennett I. Bertenthal
19. The Influence of Mother’s Book Reading Styles on Korean Infants’ Early Vocabulary Development
   Keunyoung Lee, You-Kyung Chang-Song, Ji Yeon Lee, Su Chung Kim and Wonkyung Kim
20. Differentiation of Prelinguistic Vocalizations during Social Interactions
    Julie Gros-Louis and Michael Goldstein
21. Understanding and Expression of Emotion-Descriptive Language for Ages of 18 to 36 Months
    Minhwa Kim, Su-Jeong Ok, Keumjoo Kwak and You-Kyoung Chang-Song
22. Maternal Pointing and Toddler Vocabulary Production during Book Reading versus Toy Play
    Meredith Rowe and Barbara Alexander Pan

Fr28 Cognition Memory and Learning
23. Level-One Visual Perspective Representation in 14-Month-Old Infants
    Beate Sodian, Claudia Thoermer and Ulrike Metz
24. Infant Spatial Short-Term Memory
    Shannon Ross-Sheehy, Lisa M. Oakes and Steven J. Luck
25. Relating Memory to Inhibition and Planning through Microslips: The Effects of Complexity
    Melissa Burch, Rebecca Starr, Leif Stennes, Sandra Wiebe and Patricia Bauer
26. Who has a Goal? 12-Month-Old’s Recognition of Goal Direction in Animates vs. Inanimates
    Diana Del Console and Gretchen Van de Walle
27. Chairs Don't Jump! 16-Month-Olds' Knowledge of the Motion of Animals and Furniture
    Tamara L. Demke, Diane Poulin-Dubois and Rachel K. Baker
28. Auditory/Visual Context and Memory Retrieval in Three-Month-Old Infants
    Michelle Daman-Wasserman, Barbara Brennan, Fiona Radcliffe, Joyce Prigot and Jeffrey Fagen
29. Early Social-Interactive Determinants of Later Representational and Affect-Regulative Competence in Pretend Play
    Judit Futo, Anna Batki and Gyorgy Gergely
30. Detection of Geometric but not Topological Spatial Transformations Using Visual Attention Measures in 8.5-Month-Old Infants
    Dina Lew, Kirsty Foster, Gavin Bremner and Simon Slavin
31. Understanding of the Seeing = Knowing Relation in the Second Year of Life?
    Ulrike Metz, Beate Sodian and Diane Poulin-Dubois
32. Mechanisms of Eye Gaze Perception During Infancy
    Farroni Teresa, Mark H. Johnson and Gergely Csibra
33. Infants’ Learning about Self-Propelled Motion
    Kristin Shutts, Lori Markson and Elizabeth Spelke
**Fr29 Social Development**

34. Attachment Q-set Measures: Reliability and Stability in 3 Samples  
   Lori Roggman, Gina Cook and James Akers

35. Infants Represent a Hidden Agent as the Source of Motion of an Invisible Object.  
   Rebecca Saxe, Joshua Tenenbaum and Susan Carey

36. Dueling Cultural Lenses: Dinner with Chinese Toddlers and Their Families  
   Yan Wang and Angela Wiley

37. Mothers’ and fathers’ Feelings Toward Their Newborn Infant  
   Barbara Figueiredo, Raquel Costa, Ana Marques, Alexandra Pacheco and Alvaro Pais

38. Social Referencing Behavior in Mother-Infant Pretense  
   Tracy K. Nishida and Angeline S. Lillard

39. Mother-Child Communication and Children’s Social Skills with Peers during Toddlerhood  
   Kathryn Degnan and Rachael McNamara

40. Child Compliance and Noncompliance with Maternal Requests across Play Contexts: A Study of High-Risk Mothers and Their Toddlers  
   Naomi Grunzeweig, Dale M. Stack, Lisa A. Serbin and Alex E. Schwartzman

41. Individual Differences in Social Referencing: Behavior and Neural Correlates  
   Leslie J. Carver

**Fr30 High Risk and Pediatric Issues**

42. Maternal Methadone Maintenance: Higher Doses More Neonatal Complications!  
   Trecia A. Wouldes

43. The Helping Relationship in a Doula Support Program for Young Mothers and Their Infants  
   Jon Korfmacher, Marisha Humphries and Sydney Hans

44. Early Social Communicative Abilities in Young Medically High-Risk Preterm Children  
   Isabel De Groote, Herbert Roeyers and Petra Warreyn

45. The Development of Shifts of Gaze Between Faces and Abstract Stimuli in Preterm and Full-term Infants  
   Sabine Hunnies and Reint H. Geuze

46. Comparison of Test of Infant Motor Performance (TIMP) Item Responses Among Children with Different Developmental Outcomes.  
   Vanessa M. Barbosa, Suzann Campbell, Everett Smith and Michael Berbaum

47. Effect of Tight Traditional Swaddling on Bayley Mental and Psychomotor Development Scores of 13 Month Infants in Mongolia: An RCT  
   Semira Manaseki-Holland, Susan Sprachman, Elizabeth Spier, Bayasgalantai Bavuuuren, Tsogzolmaa Bayandorj, Tom Marshall and Kim Boller

48. Behavior Problems in 18 to 36 Month Old Children of Alcoholic Fathers: Secure Mother-Infant Attachment as a Protective Factor  
   Ellen Edwards and Rina Eiden
Fr31 Psychopathology and Developmental Delay
49. The Relationship Between Maternal Depression, Interaction and Internalizing/Externalizing Problems in Preschool Children
   Miller Shivers, Joyce Hopkins and John Lavigne

Fr32 Early Environments and Social Policy
50. Family Stress, Coping and Dyadic Interaction in Limited-Income Families: A Longitudinal Examination
   Lorraine M. McKelvey, Hiram E. Fitzgerald, Rachel F. Schiffman and Alexander von Eye

Fr33 Emotional Development
51. Salivary Cortisol Responses of Normal Full-Term Infants to Touch Only and Auditory-Tactile-Visual-Vestibular Stimulation
   Rosemary White-Traut, Dorie Schwertz, Barbara McFarlin and Joseph Kogan
52. Mothers’ Strategies for Helping Toddlers Cope with Stress: Relations With Child, Maternal and Contextual Factors.
   Natalie Williams, Kristin Buss and Lizette Peterson
53. A Qualitative Exploration: Massage, Attachment and the Infant with Blindness
   Grace Lappin
54. Drd4 Genotype and Temperament in Predicting Attachment Disorganization
   Krisztina Lakatos, Ildiko Toth, Zsofia Nemoda, Krisztina Ney and Judit Gervai
55. Attachment and Psychological Preparation in the Transition to Motherhood
   Megan E. McDade
56. Attentional Control of Positive Affect at 6 and 12 Months
   Laudan B. Jahromi and Cynthia A. Stifter

Fr34 Other
57. Sequential Analysis in the Study of Affect Regulation: Methodological Comparisons
   Laudan B. Jahromi, Michael J. Rovine and Cynthia A. Stifter

Fr35 Undergraduate Research
58. Automaticity and Plasticity in Infant and Adult Walking
   Betina Yanez, Kunal Domakonda, Simone Gill-Alvarez, Karen Adolph and Beatrix Vereijken
59. A Qualitative Assessment of Mother-Infant Play Interactions with Deaf and Hearing Partners
   Walter Hoveland and Lynne Koester

Fr36 Symposium
Neural Mechanisms of Attachment and Early Self-Regulation
Chair: Jennifer C. Ablow
1:00 PM - 2:50 PM
Adams Room
Linking Maternal Models of Attachment And Mother-Infant Autonomic Arousal: Mechanisms for the Development of Self-Regulation
Jennifer C. Ablow, Amy S.K. Marks and Lynne C. Huffman

Effects of Differential Attachment Relationships on Socioemotional Regulation and Neurobiological Functioning in Rhesus Monkeys
Stephen J. Suomi

Attachment and the Self-Regulation of Neural Differentiation
Don M. Tucker

Dysregulation of the Right Brain: A Fundamental Mechanism of Traumatic Attachment and the Psychopathogenesis of PTSD
Allan N. Schore

Discussant: Jaak Panksepp

Fr37 Invited Symposium

Gerber-Sponsored Symposium on Infant Taste and Smell Preferences
Chair: Julie A. Mennella
1:00 PM - 2:50 PM
Monroe Room

Taste and Behavior
Jacob E. Steiner

Exploring the Beginnings of Flavor Preferences
Julie A. Mennella

Evolved and Learned Responses to Mammary Messages in Newborns
Benoist Schaal, G. Coureaud, A. S. Moncomble, D. Montigny and D. Langlois

Neurobiology of Infant Attachment
Regina M. Sullivan

Discussant: George F. Michel

Fr38 Symposium

Action-Based Measures of Infants’ Understanding of Others’ Intentions and Attention
Chairs: Malinda Carpenter and Michael Tomasello
1:00 PM - 2:50 PM
Parlor H Room
Infants’ Understanding of Others’ Intentional Action
Malinda Carpenter

The Role of Communicative-Referential Cues and Teleological Reasoning in Observational Learning of Novel Means During the Second Year
György Gergely and Ildikó Király

Developmental Changes in Social Cognition with an Eye Towards Gaze Following
Andrew Meltzoff and Rechele Brooks

What do 12-Month-Olds Know about Perception and Attention?
Michael Tomasello

New to Me or New to You? Determining Objects of Attention and Desire on the Basis of Novelty
Amy MacPherson and Chris Moore

**Fr39 Symposium**

**Beyond the Individual: Theory and Research on the Relational Coding System**

Chair: Alan Fogel
1:00 PM - 2:50 PM
Crystal Room

The Relational Coding System: Theory and Overview
*Alan Fogel*

Developmental and Individual Trajectories of Interpersonal Co-Regulation in Mother-Infant Joint Activity
*Tiziana Aureli*

Dyadic History and Mother-Infant Co-Regulation
*Hui-Chin Hsu*

Patterns of Co-Regulation and Characteristics of Child, Mother and Dyad
*Ilse De Koeyer and Alan Fogel*

Discussant: *Edward Tronick*

**Poster Session**

1:30 PM – 3:30 PM
Empire Room
Fr40 Motor and Sensorimotor Behavior
1. Asymmetries in Two-Dimensional Gaze Tracking
   Helena Grönqvist, Gustaf Gredebäck and Claes von Hofsten
2. Early Development of Visual-Vestibular Interaction
   Kerstin Rosander and Claes von Hofsten
   Michael Holmes, Michael Dahlin, Kasey Soska and Rick Gilmore
4. General and Task-related Experiences Affect Early Object Interaction
   Michele Lobo, James Galloway and Geert Savelsbergh

Fr41 Biological Processes
5. Patterns of Heart Rate and Respiratory Sinus Arrhythmia in Infants of Mothers with Anxiety Disorders
   Jane Doussard-Roosevelt, Susan Warren, Emily Aron and Mary Politi
6. Maternal Behavior and Infant Adrenocortical Function
   Kathy Stansbury, David Haley, Katherine Waggoner, Crystal Johnson and Melisa Curevac

Fr42 Perception and Attention
7. The Lip-Sound Matching of Vowels in Japanese Infants
   Ryoko Mugitani, Tessei Kobayashi and Kazuo Hiraki
8. Self-Regulation and Maternal Behavior as Antecedents of Performance on Visual Habituation and Recognition Memory Tasks
   Margaret M. Mannix, Nicole Yue, Naseem Choudhury, Nino Badridze and April A. Benasich
   Julia Noland, Lynn Singer, Marc Bornstein and Robert Arendt
10. Visual Pop Out in 3-Month-Old Infants
    Rebecca West and Peter Gerhardstein
    Jeffrey Haddad, Heidi Kloos and Rachel Keen
12. Gender Categorization Abilities of Preschoolers: The Effects of Typicality and Hair
    Lisa C. Newell, Mark S. Strauss, Catherine A. Best and Holly Gastgeb

Fr43 Cognition Memory and Learning
13. The Role of Gender Categorization in Face Recognition
    Lisa C. Newell, Mark S. Strauss, Catherine A. Best and Holly Gastgeb
14. The Gravity Error: Lack of Response Control or Representational Inflexibility?
    Victoria Southgate, Juan-Carlos Gomez and Kerstin Meints
15. Developmental Changes in Infants’ Understanding of Intentional and Accidental Actions
    Kara Olineck and Diane Poulin-Dubois
16. Assisted Imitation: From Being a Body to Becoming a Cultural Being
    Patricia Zukow-Goldring
17. A Possible New Marker Task for Prefrontal Functioning in Early Infancy
   Karla Holmboe, Pasco Fearon, Gergely Csibra, Mark Johnson and Leslie Tucker
18. The Babies who Mistook Their Fathers for a Car: Asymmetrical Categorization of Faces
   at 6 Months of Age
   Daphne Maurer, Margaret C. Moulson, Huma Saeedi, Philip A. Cooper and David I. Perrett
19. Do I Get What You Get? How Infants Learn About the Effects of Self-Performed and
   Observed Actions
   Birgit Elsner, and Gisa Aschersleben
20. Behavioural and Electrophysiological Evidence of Common-Onset Visual Masking in 6-
   Month-Old Infants.
   Eleni Kotsoni, Denis Mareschal and Mark H. Johnson
21. Iso-Salient Color and Luminance Information in Object Identification
   Zsuzsa Kaldy, Erik Blaser and Alan Leslie
22. Flexible Categorisation in 18-Month-Olds
   Denis Mareschal and Seok Hui Tan
23. Experience Viewing Videos of Objects Influences Object Examining in 14- and 30-
   Month-Olds
   Clay Collins and Ann Ellis
24. Reactivation in an Imitation Task by 6-Month-Olds.
   Amy Learmonth and Carolyn Rovee-Collier
25. The Effects of Prosody and Linguistic Complexity on Infants' Memory for Speech
   Colleen McDonough and Gerald McRoberts
26. Changes in Infant Listening Preferences Provide Further Evidence of Auditory Short-
   Term Memory Development
   Colleen McDonough and Gerald McRoberts

Fr44 Communication and Language
27. Testing the Biosocial Model of Infant Cry: Cry Predicts Cognitive and Motor Outcome in
   Prenatally Drug-Exposed Infants
   Rebecca A. Neal, Linda L. LaGasse, Barry M. Lester, Maternal Lifestyles Study NICHD
   Neonatal Research Network
28. Preverbal Spatial Cognition and Language-specific Input: Categories of Containment and
   Support
   Soonja Choi, Laura Greenig, Emily Wilson, Beth Gravis, George Hollich
29. The Development of Object Knowledge and Word Knowledge in 15- to 22-Month-Old
   Infants
   Heather Edwardson, Peg Hull Smith, Wendelyn Shore, Christopher Robinson
30. Reading Communicative Intentions: Infants’ Use of Social Cues in a Hiding Game
   Tanya Behne, Malinda Carpenter and Michael Tomasello
31. Beyond Appearance: 24-Month-Olds Use Labels to Make Inferences about Artifacts
   Vikram Jaswal
32. The Emergence of the Singular/Plural Distinction
   Justin Wood, Sid Kouider and Susan Carey
33. Categorization of Path and Manner in Infancy: Building a Conceptual Foundation for
   Verb Learning
Shannon M. Pruden, Mandy J. Maguire, Meredith A. Meyer, Natalie Hansell and Kathy Hirsh-Pasek

34. Gesture and Speech in Maternal Input to Children with Down Syndrome
   Jana M. Iverson, Cristina M. Caselli, Emiddia Longobardi and Katia Spampinato

Fr45 Social Development

35. Maternal Sensitivity and Caregiving: A Longitudinal Study from 12 Months to 6 Years
   Anat Scher, Miri Scharf and Judith Harel
36. Generalization of Vocal Rhythms Among 4-month Mother-Infant, Stranger-Infant &
    Mother-Stranger Dyads Differentiates Infant Attachment
   Caroline Flaster, Beatrice Beebe, Joseph Jaffe, Stanley Feldstein and Cynthia Crown
37. 5-Month-Olds’ Reactions to Vocal Perturbations During Face-to-Face Interactions with a
    Virtual Adult
   Margaret C. Moulson, Christine Hains, Kang Lee and Darwin Muir
38. Parental and Temperamental Influences on the Early Development of Attention and Language
   Jennifer Crawford, Maria Gartstein, Cheri Wheeler, Scott Abrams and Alison Bateman
39. Understanding Actions as Goal-Directed in Infancy
   Szilvia Biro and Alan Leslie
40. In the Spotlight: The Ontogeny of Infant Self-awareness Between 1 and 6 months
    Holly Bell
41. The Development of Aggressive Behavior in Korean Infants
    Keumjoo Kwak, Eun-Joo Hahn, Minhwa Kim and Jiyeon Lee
42. The Relative Contributions of Temperament and Day Care to Infants' Social Development
    Laura Nathans, Darrell Meece, Marguerite Barratt and Ellen Kossek
43. The Typical Developmental Process of Joint Attention and the Early Autistic Signs in Infancy -A longitudinal Study
    Hidehiro Ohgami, Misa Kuroki, Wakako Sanefuji and Shoji Itakura
44. Detection of Temporal Contingency During Infancy
    Hiraki Kazuo, Shimada Sotaro, Shinohara Miho and Dan Naoko

Fr46 Emotional Development

45. Beyond Sensitivity: Associations Between Maternal Harshness and Child-Mother Attachment Security at 36 Months
    Clare Holt
46. Relations of Infant Temperament, Child Sex and Maternal Personality to 4-Year and Kindergarten Behavior of Low-SES Rural Appalachian Children
    Margaret Fish and Hana Song
47. Precursors of Effortful Control: Relations with Maternal Sensitivity and Emotion Regulation in Infancy
    Ashley Lynn Hill and Julia M. Braungart-Rieker
48. How Mindful are Moms? Attunement and Representation in the Narratives of Depressed and Non-depressed Mothers
    Lisa W. Coyne, Christine M. Low, Alison L. Miller, Ronald Seifer and Susan Dickstein
Fr47 Early Environments and Social Policy
49. Television Watching associated with Quality of Child Care Setting and Cognitive Outcomes in Children
   Camilla von Stauffenberg and Susan B. Campbell

Fr48 High Risk and Pediatric Issues
50. Maternal Childhood Aggression and Withdrawal, Health-Risk Behaviours and Health in High-Risk Offspring: An Inter-Generational Study
   Natacha M. De Genna, Dale M. Stack, Lisa A. Serbin, Alex E. Schwartzman and Jane Ledingham
51. The Experience of Infantile Colic: Stories from Parents
   Karen Kolmodin, Amy Hedrick and Linda Gilkerson
52. Psychological Trauma in Infancy: Development of the Infant Life Events Scale
   Leah Hatton and Margaret McKim
53. Skin-to-Skin Breastfeedings for Mother-Infant Dyads With Breastfeeding Difficulty Postpartum: Effect on Maternal Salivary Cortisol
   Gene Anderson and Sheau-Huey Chiu
54. Family Process Variables and Child Outcome
   Laura H. Bolzani Dinehart, Katherine E. Bono and Dionne Dobbins
55. Prenatal Cocaine Exposure and Infant Stress Response as Measured by Salivary Cortisol
   Yvette Veira, Rina Eiden Das and Pamela Schuetze
56. Growth Mediates the Association Between Prenatal and Passive Exposure to Cigarettes and Heart Rate in 2-Week Old Infants
   Pamela Schuetze and Rina Eiden
57. Relation Between Maternal Substance Use and Infant Arousal: An Examination of Possible Mediators and Moderators of Risk
   Pamela Schuetze and Rina Eiden

Fr49 Undergraduate Research
58. The Association Between Prenatal Exposure to Cocaine and Sleep at 7 Months of Age
   Desirae Lawton, Pamela Schuetze and Rina Eiden
59. Attachment and Autism Treatment
   Rachel Lucas-Thompson and Suzanne Cox

Fr50 Symposium
Finding Structure in the Input: What Cues are Infants Using?
Chair: Melanie Soderstrom
3:00 PM - 4:50 PM
Monroe Room
Prosodic Sensitivity: How Might it be Used?
Melanie Soderstrom, Irena Foygel and James L. Morgan
Cue Use in Clause Segmentation  
*Amanda Seidl*

The Developmental Trajectory of Nonadjacent Dependency Learning  
*Rebecca L. Gomez and Jessica Maye*

Input Influences Syntactic Processing: The Acquisition of Discontinuous Verbal Dependencies by German 19 Month-Olds  
*Barbara Hoehle, Michaela Schmitz, Lynn Santelmann and Juergen Weissenborn*

Discussant: *LouAnn Gerken*

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**Fr51 Symposium**

**Categorization in Infancy: The Role of Previous Experience**

**Chair:** Sabina M. Pauen  
**3:00 PM - 4:50 PM**  
**Parlor H Room**

Does Experience with Real-Life Animals Influence Performance in an Object-Examination Task?  
*Saina Pauen and Birgit Traeuble*

The Role of Functional Knowledge for Infant Categorization of Artifacts  
*Birgit Traeuble and Sabina Pauen*

The Role of Language Acquisition on Infants' Inductive Generalizations  
*Laraine McDonough*

Discussants: *Paul Quinn, Jean Mandler*  

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**Fr52 Symposium**

**Imitation and Awareness of Others in the First Two Years of Life**

**Chair:** Maria Legerstee  
**3:00 PM - 4:50 PM**  
**Crystal Room**

Imitation Effects on the Interactions of Depressed, Angry and Anxious  
*Tiffany Field*

Be Imitated and the Development of Agency  
*Jacqueline Nadel and Emilie Legrand*
Imitation as Awareness of Intentional and Rational Action in 10-Month-Olds
Maria Legersteve and Catherine Munns

Actions, Outcomes and Learning: A Study of Imitation in the Second Year
Mark Nielsen

Discussant: Jean Decety

Fr53 Symposium

Learning to Walk as an Illustration of and Catalyst for Infant Problem Solving

Chairs: David I. Anderson and Daniela Corbetta
3:00 PM - 4:50 PM
Adams Room

How do Young Walkers Adapt to Obstacle Crossing?
Blandine Bril

Clearing an Obstacle During Gait: A Problem to Solve in New-Walkers with Down syndrome
Rosa Angulo-Barroso, Dale Ulrich, Chad Tiernan, Ann Rosebrough and Lisa Ehn

Newly Walking Infants and Cliff Avoidance: Evidence for Transfer of Learning Across Postural Orientations
David Witherington, Joseph Campos, David Anderson, Laure Lejeune and Eileen Seah

Learning to Walk: A Catalyst for Late Changes in Reaching
Daniela Corbetta and Winona Snapp-Childs

Discussant: Joseph Campos

Business Meeting and Awards
5:00 PM - 6:00 PM
Red Lacqure Room

Presidential address (Chair: Rachel Keen)
The Science of Infancy: Academic, Social and Political Agendas
Prof. Arnold Sameroff
6:15 PM - 7:30 PM
Red Lacqure Room
Sa01  Roundtable Breakfast Discussion
Measuring Emotion Regulation: Assessing the Present and Planning the Future
Chair: Cynthia Stifter
7:20 AM - 8:50 AM
Adams Room

Sa02  Roundtable Breakfast Discussion
Mentoring Women in the Profession
Chair: Linda Camras
7:20 AM - 8:50 AM
Monroe Room

Sa03  Roundtable Breakfast Discussion
Breakfast discussion between members of the Japan Society for Baby Science and members of ISIS
Chairs: Ichiro Uchiyama, Konishi Yukuo, Joseph J. Campos and Arnold Sameroff
7:20 AM - 8:50 AM
Parlor H Room

Sa04  Roundtable Breakfast Discussion
Journal Editors
Chair: George F. Michel
7:20 AM - 8:50 AM
Wabash Room

Sa05  Symposium
Statistical Language Learning: Second Generation Research
Chair: Rebecca L. Gomez
9:00 AM - 10:50 AM
Adams Room
What Are Statistics For? Linking Statistical Learning to Language Acquisition in the Wild

Jenny Saffran

Learning Probabilistic Languages: Who Learns What, When and Why

Carla Hudson

Choosing Among Multiple Sources of Information in Linguistic Input

Rebecca Gomez and Jill Lany

Infants Make Different Generalizations for the Same Formal System Depending on the Specifics of the Input

Lou Ann Gerken

Discussant: Toben Mintz

Sa06 Symposium

What Central and Autonomic Coupling Can Tell Us About Infant Cognitive and Affective Development

Chair: Martha Ann Bell
9:00 AM - 10:50 AM
Monroe Room

EEG and Heart Rate Correlates of the Development of Infant Working Memory

Martha Ann Bell

The Convergence of Electroencephalographic and Heart Rate Measures of Attention in Infancy

Greg D. Reynolds and John E. Richards

Relations Between Frontal EEG Activity and Heart Rate in Response to Affective Auditory Stimuli During the First 12-Months of Life

Louis A. Schmidt, Laurel J. Trainor, Diane L. Santesso and Lisa Hodgson-Minnie

Still Face Revisited: Early Neurophysiological Origins of Intentionality and Coping with Non-Contingency

Olga Bazhenova, Tatiana A. Stroganova, Jane A. Doussard-Roosevelt, Irina A. Posikera and Stephen W. Porges

Discussant: Stephen W. Porges
**Sa07 Symposium**

**The Dynamics of Decisions in Infants and Toddlers: Theory and Empirical Applications of the Dynamic Field Model (Canceled - see Sa49 for posters)**

*Chair:* Esther Thelen  
*9:00 AM - 10:50 AM*  
*Parlor H Room*

- Infants' Habituation Patterns Are a Function of Stimulus Identity as Predicted by the Dynamic Field Model (see Sa 49 # 58)  
  *Jing Feng, Esther Thelen and Gregor Schoner*

- Age Differences in Perseverative Reaching to Always Visible Targets (canceled)  
  *Christina Rival, Christopher Smethurst and Esther Thelen*

- Task Dynamics of Toddlers' Search Errors (see Sa49 # 59)  
  *Daan Franken and Virgil Whitmyer*

- Theoretical and Empirical Analysis of Infants' Spontaneous Errors on the A Trials in the A-not-B Task (see Sa49 # 60)  
  *Evelina Dineva, Gregor Schoner and Esther Thelen*

*Discussant: Rick Gilmore*

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**Sa08 Symposium**

**The Nature and Developmental Influences of Caregiving Relationships in Infant- Toddler Child Care**

*Chair:* James G. Elicker  
*9:00 AM - 10:50 AM*  
*Crystal Room*

- Two Ways of Observing Attachment Relationships in Child Care Using the Attachment Q-sort  
  *Clasien J. de Schipper and Louis W.C. Tavecchio*

- Infant-Caregiver Relationships and Continuity of Care  
  *Illene C. Noppe, Christine Davis, Erin Vandenboogaard and Heather Schoenfeld*

- A Descriptive Ethnographic Study of Caregivers’ Interactive Behavior in a Daycare setting  
  *Olga A. Carbonell, German Posada, Garene Kaloustian, Sandra Plata and Gloria Alzate*

- Staff-Child Relationships and Child Outcomes in Early Head Start  
  *James Elicker, Xiaoli Wen and Jill B. Sprague*
Discussant: Helen Raikes

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<th>Poster Session</th>
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<td><strong>Sa09 Motor and Sensorimotor Behavior</strong></td>
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<tr>
<td>1. Bimanual Percussion during the Second Year of Life</td>
<td>Karen Brakke, Angelica Gunn, Dorothy Fragaszy, Erica Hoy and Kathy Simpson</td>
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<td>3. Object Banging by Infants with Normal or Impaired Hearing</td>
<td>Angela Yarnell, Daniel Ashmead and Anne Marie Tharpe</td>
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<td>5. Season-of-Birth Patterns in Gross Motor Milestone Attainments</td>
<td>Warren O. Eaton and Jennifer L. Bodnarchuk</td>
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<td><strong>Sa10 Biological Processes</strong></td>
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<td>6. The EEG Asymmetry and Infant Handedness</td>
<td>Tatiana A. Stroganova, Natalia P. Pushina, Elena V. Orekhova, Irina N. Posikera, and Marina M. Tsetline</td>
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<td>7. Undifferentiated Auditory Response of the Occipital and Temporal Cortex in Sleeping Infants</td>
<td>Gentaro Taga, Kayo Asakawa, Hama Watanabe and Keisuke Kushiro</td>
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<td><strong>Sa11 Perception and Attention</strong></td>
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<td>8. A Preference for Own- Versus Other-Race Faces in Neonates and 3-Month Old Infants?</td>
<td>David Kelly, Alan Gibson, Mike Smith, Alan Slater and Olivier Pascalis</td>
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<td>9. Perception of Motion Transparency in Infancy</td>
<td>Kanazawa So, Shirai Nobu, Otsuka Yumiko and Yamaguchi Masami</td>
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<td>10. Intersensory Redundancy Facilitates Infants' Perception of Meaning in Speech Passages</td>
<td>Irina Castellanos, Melissa Shuman and Lorraine Bahrick</td>
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<td>11. Behavioral and Psychophysiological Indices of 2- and 4-Month-Old Infants’ Attention to Differing Rates of Infant Directed Speech</td>
<td>Megan McIlreavy, Naureen Bhullar and Robin P. Cooper</td>
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<td>13. Detail in Phonetic Representation of 6-8 and 10-12 Month-Old French- and English-Learning Infants</td>
<td>Megha Sundara, Linda Polka and Monika Molnar</td>
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14. Auditory Dominance in an Object Recognition Task  
   *Christopher W. Robinson and Vladimir M. Sloutsky*

**Sa12 Communication and Language**

15. Familiar Labels Tune Attention to Corresponding Visual Input  
   *Christopher W. Robinson and Vladimir M. Sloutsky*

16. Processing of Different Stress Patterns in Infants with and without Risk for LI: Electrophysiological Evidence  
   *Christiane Weber, Anja Hahne, Manuela Friedrich and Angela D. Friederici*

17. How Sighted Caregivers Direct the Attention of Congenitally Blind Infants Toward Objects  
   *Sarah Norgate, Vicky Lewis and Edd Alexander*

18. Two-Year-Olds Use Grammar to Learn Novel Verbs  
   *Mandy J. Maguire, Shannon M. Pruden, Kathy Hirsh-Pasek, Meredith A. and Meyer, Natalie Hansell*

19. The Influence of Age, Receptive Vocabulary and Level of Word Knowledge on Infant's Sequential Touching Behaviors  
   *Brian Bramstedt, Christopher Robinson, Peg Hull Smith, Wendelyn Shore and Wallace Dixon Jr*

20. Look-ing at when Verb Morphology is Learn-ed  
   *Jill Hohenstein and Nameera Akhtar*

   *Laura A. Thompson, Krisstal Clayton, Katie Silva, Peter W. Foltz and J. Malmberg*

**Sa13 Cognition Memory and Learning**

22. Mother-Infant Synchrony in Cortisol and Behavior: Relations With Learning in 6-Month-Old Infants  
   *Laura A. Thompson, Wenda R. Trevathan, Rosanna Villarreal, Xavier Pena and Elizabeth Arias*

23. Viewpoint Invariant Recognition of Complex Objects in 3-Month-Old Infants.  
   *Kimberly Kraebel and Peter Gerhardstein*

24. Infant Categorisation of Humans and Animals - The Role of Bodily Form  
   *Emma Axelsson, Derek Moore, Julia Goodwin, Brian Clifford and Gavin Nobes*

25. Generalized Imitation Following Multi-Exemplar Modeling: Already Down to Basic?  
   *Barbara Younger, Kathy Johnson and Stephanie Furrer*

26. Infants’ Sensitivity to Featural and Configural Changes in Human Faces  
   *Richard Le Grand, Daphne Maurer and Catherine Mondloch*

27. Differential Temperament Associations Found for the Looking and Reaching Versions of an Infant Spatial Working Memory Task  
   *Christy D. Wolfe and Martha Ann Bell*

28. The Development of a Parental Report Questionnaire of Infant Cognitive Ability  
   *Maryhan Baker, Graham Schafer and Katie Alcock*

29. The Role of Hiding Location - Object Type Correlation on Infant Search  
   *Mark A. Schmuckler and Melissa Vres*
30. Differential Levels of Object Familiarity Effect Infants' Search Performance in an A-not-B Task
   Thomas Keenan
31. Baby Einsteins Everywhere: The Amount and Nature of Television and Video Viewing of Infants Birth to 2 Years
   Sophia L. Pierrouxakos, Moira M. Hanna, Jennifer Self, E. Nicole Lewis and C. Jamison Brewer
32. An Earlier Look: 4-Month-Olds' Manual Reactions to Pictured Objects
   Sophia L. Pierrouxakos, Nicole E. Lewis, Jennifer Self and C. Jamison Brewer
33. Short- and Intermediate-Term Forgetting in 16- and 20-Month-Old Children
   Evren Kavas, Rebecca Starr, Melissa Burch and Patricia Bauer
34. The Role of Between- and Within-Category Comparisons in Infants’ Categorization
   Kristine A. Kovack, Nicole P. Salvo and Lisa M. Oakes

Sa14 Social Development
35. Infants' Preference for Peers: Do Infants Prefer Infants, as Adults do?
   Wakako Sanefuji, Hidehiro Ohgami and Kazuhide Hashiya
36. Cooperative Problem-Solving and Play During the Second Year
   Felix Warneken and Michael Tomasello
37. Gaze Shifting with Positive Emotion
   Misa Kuroki
38. Children’s Understanding of Attention: Specific Aspect or Whole Object?
   Cornelia Koring, Henrike Moll, Malinda Carpenter and Michael Tomasello
39. Parenting Predictors of Toddlers' Play Competence and Social Behaviors at 24 and 36 Months
   Holly E. Brophy-Herb, Rachel Schiffman and Lorraine McKelvey
40. Maternal Factors Contributing to Toddlers' Early Development of Internal State Language: A Longitudinal Study
   Maria Legerstee, Louise Fahy, Joanna Blake, Tamara Fisher and Gabriela Markova
41. Effects of Infant Age and Birth Status on Maternal Nonverbal Attention Strategies During Mother-Infant Play Interactions
   Elka Leiba and Dale M. Stack

Sa15 Emotional Development
42. Electrophysiological Indices of Auditory Novelty Processing in Temperamentally Selected 9-Month-Old Infants
   Michael Hardin, Peter Marshall and Nathan Fox
43. Emotion Socialization in Korean Families: The Effect of Gender and Mother's Emotion Beliefs on Mother-Child Emotion Talk
   Hai-Jeong Ahn and Christi Cervantes
44. Individual Differences in Infant Negative Affect Expression and Cognitive Functioning at Preschool Age
   Jean-Pascal Lemelin, George M. Tarabulsy and Marc A. Provost
45. Martial Conflict and Infants' Emotion Regulation
   Ginger A. Moore, Susan D. Calkins, Cathi B. Propper, Katherine Hutchinson and Amy Mariaskin
Sa16 High Risk and Pediatric Issues

46. Prenatal Exposure to MDMA (Ecstasy) and Other ‘Recreational’ Drugs: Initial Findings.
   Lynn T. Singer, Kathleen Farkas, Andrew C. Parrott, Derek G. Moore and Julia E. Goodwin
47. Promoting Development in High Risk Preterm Infants: First Results of an Early Intervention Program
   Douglas Teti, Christine Hess, Melissa O'Connell, Margo Candelaria and Wendy Miller
48. Predictors of Parental Commitment to Intervention in a High Risk Preterm Infant Sample
   Douglas Teti, Melissa O'Connell, Christine Hess, Margo Candelaria and Wendy Miller
49. Indices of Trauma in a Cosleeping Toddler
   Patricia A. Self
50. EEG-Sleep in Preterm Infants Before and During Skin-to-Skin Contact
   Susan Ludington, Kathy Morgan, Mark Scher, Mark Johnson and Tina Lewis
51. Increased Risk for Special Education due to Prenatal Cocaine Exposure
   Marygrace Yale Kaiser, Susan Brunner and Katherine Bono

Sa17 Psychopathology and Developmental Delay

52. Competence Among Clinically Referred and Non-Referred Preschoolers
   Marisha Humphries, Jeanne Duax, Carri Hill, Kathryn Keenan and Lauren Wakschlag
53. Infant Attachment, Maternal Drug Use and Trauma
   Brent Finger and Sydney L. Hans

Sa18 Undergraduate Research

54. Infant and Toddler Characteristics Predict Stroop Task Performance at Fifty-Four Months of Age
   Jennifer M. Carroll and Cheryl A. Fortner-Wood
55. 12-Month-Olds' Mentalistic Interpretation of Biological Motion
   Jennifer Yoon and Susan C. Johnson

Sa19 Other

56. Learning Labels and Functions: An Advantage for Actions in Three Age Groups
   Erin R. Hahn and David H. Rakison
57. Korean Mothers’ Perception of Their Infants’ Everyday Emotions
   Jiyeon Lee, Suchung Kim, Wonkyung Kim and Keumjoo Kwak
58. The Relationship among Mothers’ Depression and Infants’ Lexical Development
   Younghee Rho, Jiyeon Lee and You-Kyung Chang-Song
59. The Relations Among Play, Object Permanence and Vocabulary Development Across the Second Year
   Jiyeon Lee, Kijo Bae, Yoonkyung Cho, Suchung Kim and Wonkyung Kim
60. The Contribution of Energy Expenditure, Activity and Macro-Nutrient Intake to Body Composition and Rate of Weight Gain in Preterm, Low Birth-Weight Infants
   Karen Pridham, Janine Bamberger, Abhik Bhattacharya, Frank Greer, Kyle Mounts and Debbie Krumpos
**Sa20 Symposium**

**Developing Social Awareness in the Context of Action**

*Chair:* Catherine Tamis-LeMonda  
**11:00 AM - 12:50 PM**  
*Adams Room*

Talking and Walking: Infants’ Social Communications on Risky Paths  
*Karen E. Adolph, Catherine Tamis-LeMonda and Martha W. Alibali*

How Infants’ Decisions About Action Depend on Understanding Self and Other  
*Catherine Tamis-LeMonda, Karen E. Adolph, Lana B. Karasik, Sharon A. Lobo, Katherine A. Dimitropoulou and Elizabeth A. Zack*

Neighborhood Violence on Child and Family Functioning  
*Philippe Rochat, Derek Layton, Sarah Poss and Tanya Macgillivray*

Tracing the Developmental Course of Retention of Emotional Communications  
*Joseph J. Campos and Matthew Hertenstein*

*Discussant: Chris Moore*

**Sa21 Symposium**

**Distributional Learning in Phonological Development: Generalizations and Constraints**

*Chair:* Kyle E. Chambers  
**11:00 AM - 12:50 PM**  
*Monroe Room*

Infants’ Discovery of Regular Lexical Stress Patterns in Probabilistic Input  
*Erik Thiessen and Jenny Saffran*

Infants Make Linguistic Inferences Across Utterances  
*LouAnn Gerken*

Phonetic Learning in Infancy  
*Jessica Maye*

Constraints on Phonotactic Learning in Infancy  
*Kyle E. Chambers, Kristine H. Onishi and Cynthia Fisher*

*Discussant: Richard Aslin*
Sa22 Symposium

**Developments in Infants' Understanding of Emotions During the First Year**

**Chair:** Donna L. Mumme  
**11:00 AM - 12:50 PM**  
**Parlor H Room**

Familiarity Allows Contempt: Infants’ Understanding of the Emotions of Familiar People  
*Arlene Walker-Andrews, Estelle Mayhew, Caroline Coffield and Sheila Krogh-Jespersen*

The Intention behind the Expression: Inferring the Meaning of Expressions in Dyadic and Triadic Contexts  
*Tricia Striano*

Ten-Month-Old Infants’ Failure to Connect Emotional Messages to Their Referents  
*Donna L. Mumme and Michelle M. Wedig*

Acting It Out: Investigating the Effects of Encoding Cues on One-Year-Olds’ Memory for Negative Messages  
*Jennifer A. DiCorcia*

**Discussant:** Philippe Rochat

Sa23 Symposium

**Developmental Origins of Tool Use in Humans and Nonhuman Primates**

**Chair:** Dorothy M. Fragaszy  
**11:00 AM - 12:50 PM**  
**Crystal Room**

Relating Objects to Surfaces: Foundations of Tool Use  
*Jeffrey Lockman*

Ontogeny of Skilled Hammering in One- to Two-Year Olds  
*Sarah Cummins-Sebree, Dorothy Fragaszy, Kathy Simpson, Erica Hoy and Samatchai Chamnongkich*

Exploration of Objects and Surfaces by Infant Chimpanzees  
*Dorothy Fragaszy, Hideko Takeshita, Tetsuro Matsuzawa and Yu Mizuno*

The Ontogeny of Nutcracking Behavior in Semifree Tufted Capuchin Monkeys  
*Briseida Resende, Patricia Izar and Eduardo Ottoni*
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   Wendelyn Shore, Peg Hull Smith, Heather Knous, Aaron M. Bell and Todd R. Davis

15. ‘Bouncing vs. Streaming’ as a Measure of Infants’ Dynamic Object Individuation  
   Stephen Mitroff, Karen Wynn, Brian Scholl, Scott Johnson and Sarah Shuwairi

16. Means-Ends and Problem Solving in 9 to 18-Month-Old Infants  
   Nathalie Goubet, Jonathan Hart, Philippe Rochat and Sarah Poss

17. Can a Particular Action be a Goal? Reasoning About Sliding and Lifting Actions in 13.5-Month-Old Infants  
   Hyun-joo Song, Renée Baillargeon and Cynthia Fisher

18. Infants’ Ordinal Judgements: Choosing the Larger of Two Continuous Quantities  
   Kristy vanMarle and Karen Wynn

19. Face Detection in 3-Month-Old Infants: Behavioral Responses and Neural Correlates  
   Alissa Westerlund, Viola Macchi Cassia, Dana Kuefner and Charles A. Nelson

   Alissa Westerlund, Matt J. Burden, Rinat Armony-Sivan and Charles A. Nelson

21. Forming Representations of Event Sequences During an ERP Test: Do You have to be There?  
   Sandra A. Wiebe, Angela F. Lukowski, Carol L. Cheatham, Jennifer C. Haight and Abigail J. Muehleck

22. The Effects of Understanding the Goal of a Behavior on Two-Year-Olds' Imitation  
   Rebecca Williamson and Ellen M. Markman

23. Effects of Experience and Delay on 16- and 20-Month-Olds’ Episodic Memory  
   Holly Bunje, Rachel Friedlieb, Melissa Burch and Patricia Bauer

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**Sa27 Emotional Development**

24. Hugs and Monsters: How Parents Discuss Emotions with Their Toddlers  
   Holly Bunje, Marina Larkina, Rachel Friedlieb and Patricia Bauer

   Heather K Warren and Cynthia A. Stifter

26. Mothers’ and Infants’ Physiological Regulation in the Still-Face Paradigm  
   Cathi Propper, Ginger Moore, Susan Calkins, Katherine Hutchinson and Amy Mariaskin

27. Mothers at Play: Individual Differences in Maternal Free Play Behavior Are Predicted by Infant Temperament  
   Loretta Rieser-Danner, Tiffany DeShields, Jaime Grossman, AnneMarie Corby and Shelbi Bordner

28. Anglo and Ethnic-Minority Mothers' Beliefs and Preferences Regarding Toddlers' Emotional Behavior and Regulation  
   Adriana Molitor and Kim Wells

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**Sa28 Social Development**

29. Father Involvement: Description and Prediction of Change During the Infant’s First Year  
   Shannon Zentall, Julia Braungart-Rieker, and Mark Ersfeld
30. Predicting Maternal Interactive Style with Toddlers from Maternal Personality
   Cynthia L. Smith, Elizabeth Harris, Tierney K. Payne, Nancy Eisenberg and Amanda Cumberland

31. Adult and Infant Perceptions of Facial Attractiveness: The Influence of Video Presentation on Attractiveness Judgments
   Adam Rubenstein

32. The Relation of Demographic Cumulative Risk Status to Mother-Child and Father-Child Interactions
   Tierney K. Payne, Cynthia L. Smith, Elizabeth L. Harris, Karissa A. Greving and Tracy L. Spinrad

33. The Impact of Maternal Sensitivity on 20-Month-Old Infant-Mother Play
   Jennifer Baumgardner, Peg Hull-Smith and Wallace Dixon Jr

34. States of Mind Behind Mind-Mindedness: Adult Attachment Classifications Predicting Maternal Mind-Mindedness
   Jennifer C. Ablow and Megan E. McDade

35. Relations Between Attachment Formation and the Neural Correlates of Face Perception in 6-Month-Old Infants
   Margaret Cox and Leslie Carver

Sa29 Communication and Language
36. Distributional Properties of Vowel Sounds in Fluent Speech as a Cue to Discriminate Languages
   Laura Bosch and Núria Sebastián-Gallés

37. Infants’ Flexible Learning of Similar Sounding Words
   Julia Wales and George Hollich

38. Facilitation Effects of Function Words for Word Segmentation in Infants
   Rushen Shi, Janet Werker, Anne Cutler and Marisa Cruickshank

39. Infants’ Use of Proper Names and Count Nouns in Object Individuation
   Mijke Rhemtulla, Geoffrey D. Hall and Fei Xu

40. Two-Month-Old Infants Learn the Arbitrary Relation Between a Complex Syllable and an Object in the Presence of Intersensory Redundancy
   Lakshmi Gogate, Susan Bewley and Li-Fen Chen

41. Everyday Communication Skills in Children up to 5 years
   Cocquyt Mie, Zink Inge, Roeyers Herbert, Mommaerts Maurice and Nadjmi Nasser

42. Measuring Communication Skills in Children up to 5 years, with Cleft Lip and Palate
   Cocquyt Mie, Zink Inge, Roeyers Herbert, Mommaerts Maurice and Nadjmi Nasser

43. Prototype Effects in Early Verb Learning
   Kerstin Meints, Kim Plunkett and Paul L. Harris

44. Object Parts in Early Word Comprehension
   Kerstin Meints and Nicola Jones

Sa30 High Risk and Pediatric Issues
45. Young Infants in a Romanian Orphanage: Response to Sensitive Caregiving Over Two Weeks Time
   Mary Jo Krahn Krahn
46. Cortisol Responses and Parenting Stress in Preterm and Fullterm Infants at Age 3 Months
   David W. Haley, Ruth E. Grunau, Joanne Weinberg and Michael F. Whitfield
47. The Effect of Positioning on General Movements of Preterm Babies
   Nakano Hisako, Konishi Yukuo, Taga Gentaro, Takaya Rieko, Kihara Hideki, Nakano Junji and Hasegawa Takehiro
48. Dampened Stress Responses at 32 Weeks Postconceptional Age in Extremely Preterm Infants Are Related to Prior Pain Exposure
   Ruth E. Grunau, Joanne Weinberg, Tim Oberlander, Liisa Holsti and Alfonso Solimano
49. Breastfeeding Status by Ethnicity in Mothers and Their Full-term Infants with Breastfeeding Difficulty During Early Postpartum
   Sheau-Huey Chiu and Gene Anderson
50. Relations among Family Context Factors, Maternal Psychosocial Functioning and Child Behavior Problems in a Sample of Neglected 2-Year Old Children
   Tristan Milot, Louise Ethier and Diane St-Laurent
51. Sucrose Effect on Infant Metabolism.
   Larry Gray and Kalina Michalska
52. Urban Crying in the Emergency Department
   Larry Gray, Rebecca Klein and Linda Gilkerson
53. Biobehavioral Calorimetry
   Larry Gray and Kalina Michalska

**Sa31 Psychopathology and Developmental Delay**
54. Exploring Multiple Risks Among High Risk Families: Predictors of Children's Developmental Delayed Status
   Jacqueline D. Shannon, Tracey Dewart, Gail Gordon, Susanne Lachapelle and Leslie Roth

**Sa32 Early Environments and Social Policy**
55. The Chicago Parent Program: A Video-based Intervention for Families with Young Children
   Christine Garvey, Deborah Gross, Wrenetha Julion and Louis Fogg
56. Relation of Parenting Stress, Marital Satisfaction and Maternal Behavior to Depression of Korean Mothers of Infants
   Keumjoo Kwak, Yeonsoo Kim, Hee-og Sim and Hyunran Sung

**Sa33 Undergraduate Research**
57. Maternal Touching During Interactions: Influence of Infant Age and Social Context
   Amélie Jean, Dale M. Stack, Nadine Girouard and Alan Fogel

**Sa34 Other**
58. The Relation Between 3- to 9-Month-Old Infants’ Perception of Catchableness and Task Constraints
   Paulion van Hof, John van der Kamp and Geert Savielsbergh
**Sa35 Symposium**

**Measurement Issues Related to Early Temperament Research**

**Chair:** Cindy P. Polak  
**1:00 PM - 2:50 PM**  
**Monroe Room**

The Study of Early Temperament via the Lab-TAB: Measurement and Conceptual Issues  
*Cindy P. Polak and Nathan A. Fox*

Effects of Context and Scoring on the Identification of Fearful Children  
*Kristin A. Buss*

Measuring the Relation Between Infant Temperament and Maternal Sensitivity: Confounds, Conundrums and Conclusions  
*Cynthia Stifter*

The Effect of Data Aggregation Procedures on the Relation Between Behavioral Inhibition and Cortisol in Young Children  
*Nicole Talge and Megan R. Gunnar*

**Discussant:** Mary Rothbart

**Sa36 Symposium**

**What do Infants Know about Grammatical Morphemes?**

**Chair:** Hélène S. Deacon  
**1:00 PM - 2:50 PM**  
**Parlor H Room**

'More or Less': The Specificity of 18- and 24-Month Old Infants’ Knowledge of the Plural.  
*Hélène S. Deacon, Noshin Lalji-Samji, Dilys Leung and Janet Werker*

Input Frequency and Similarity in the Acquisition of the Plural  
*Jennifer Zapf and Linda Smith*

Is it a Happening Thing? Children’s Comprehension of the Present Progressive Morpheme  
*Dede Addy, Roberta M. Golinkoff, Jennifer Sootsman, Rachel Pulverman, Meredith Meyer and Kathy Hirsh-Pasek*

Early Comprehension of Aspect Morphology  
*Letitia Naigles, Laura Wagner and Melissa Smith-Leonard*

**Discussant:** Geoffrey Hall
Sa37 Symposium

Dynamics of Infant Learning

Chair: Eugene C. Goldfield

1:00 PM - 2:50 PM

Adams Room

Dynamics of Infant Bouncing: Retrospect and Prospect

Eugene Goldfield

Exploring the Dynamics of Perception and Action

William Warren

Infant Bouncing: Spontaneous Learning of Task Dynamics

Patrick Foo, Eugene Goldfield, Bruce Kay, William Warren

The Nature of Resonance and Implications for the Study of Development

Bruce Kay

Discussants: Beverly Ulrich and John Spencer

Sa38 Symposium

Disruptive Behavior Problems in the General Population of Very Young Children

Chair: Raymond H. Baillargeon

1:00 PM - 2:50 PM

Crystal Room

Comorbidity Among Disruptive Behavior Problems Before Two Years of Age: The Québec Longitudinal Study of Children Development

Raymond H. Baillargeon

Evolution of Physical Aggression from 29 to 41 Months in Quebec Population

Alexandre Morisset

Early Social-Emotional and Behavioral Trajectories to Kindergarten Social-Emotional and Academic Skills.

Stephanie M. Jones, Alice S. Carter and Margaret Briggs-Gowan

Discussant: Kate Keenan
Poster session
1:30 PM – 3:30 PM
Empire Room

**Sa39 Motor and Sensorimotor Behavior**

1. Using the Play Space to Enhance Understanding of Early Skills  
   *Frederick J. Diedrich, Eliza Beth Littleton and Jason Sidman*
2. Double Touch and Hand-Mouth Coordination in Preterm Infants  
   *Makiko Kurihara and Yukuo Konishi*
3. Postural Variability During the Transition to Independent Walking  
   *Li-Chiou Chen, Jason S. Metcalfe and Jane E. Clark*
4. Continuity vs. Discontinuity: How Different Time Scales of Behavioral Measurement Affect the Pattern of Developmental Change  
   *Scott R. Robinson, Karen E. Adolph and Jesse W. Young*
5. How 9- to 48-Month-Olds Grasp Spoons by Their Handles: The Interaction Between Two Visual Systems  
   *John van der Kamp, Irene Faber and Paulion van Hof*

**Sa40 Biological Processes**

6. A Mother's Ability to Taste Propylthiouracil (PROP) and its Relation to Emotional Investment in Her Infant  
   *DeAnn Jones, Lori Roggman and Tim Gilbertson*

**Sa41 Perception and Attention**

   *Kris Barnekow, Gary Kraemer and Jill Winters*
8. Children’s Use of Speech and Motion Cues When Learning Novel Words  
   *Jennifer A. Schwade, Michael H. Goldstein, Jennifer S. Stone and Anya Wachterhauser*
9. Effects of Elevated Prenatal Arousal on Perceptual Learning in Bobwhite Quail Embryos  
   *Gabriella Toth, Rebecca Markham and Robert Lickliter*
10. Intersensory Redundancy Can Educate Selective Attention During Prenatal Development  
    *Robert Lickliter, Lorraine E. Bahrick and Rebecca Markham*
11. Maternal DHA Levels and Toddler Attention and Distractibility  
    *Kathleen Kannass, John Colombo, Susan Carlson, Jill Shaddy and Shashi Kundurth*
12. The Effects of Continuous and Intermittent Distraction  
    *Kathleen Kannass and John Colombo*
13. Where An Infant Looks Determines How They See: Eye Movements and Object Perception Performance in 3-Month-Olds  
    *Jonathan A Slemmer, Dima Amso and Scott P Johnson*
14. Optical Neuroimaging Reveals Early Frontal Lobe Activation during Language Exposure  
    *Heather Bortfeld and Eric Wruck*
15. Limits on the Number of Active Object Indexes in Infancy  
    *Erik Cheries, Karen Wynn and Brian Scholl*
16. Cohesion Violations Disrupt Number
   *Erik Cheries, Steve Mitroff, Karen Wynn and Brian Scholl*

17. A Neonatal Bias for Speech That is Independent of Experience
   *Athena Vouloumanos and Janet Werker*

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**Sa42 Communication and Language**

18. Learning First Words in a Probabilistic Environment
   *Athena Vouloumanos and Janet Werker*

19. The Relationship of Maternal Availability to Infant Pointing
   *Jaclyn Cheek, Jaime L. Dice and Hui-Chin Hsu*

20. The Specificity of Parental Language Input and Children’s Language Competencies
    *Tonia N. Cristofaro, Eileen aRodriguez, Lisa Baumwell, Catherine Tamis-LeMonda and Maria Nakae*

21. Event-Related Potential Features of the Suprasegmental Speech Cues Processing in Hungarian
    *Anett Rago, Ferenc Honbolygo, Valeria Csepe, Zsofia Rona and AnnaBeke*

22. Shyness, Joint Attention and Language Skill
    *Nicolle Angeli, Roger Bakeman and Lauren B. Adamson*

23. The Relationship Between Maternal Extroversion and Child Language and Vocabulary
    *Aimee Rustman, Jennifer DeGroot Hanawalt and Ty Partridge*

24. What Does a Good Baby-Word Sound Like?: Japanese Adults' Intuitive Judgments About a Good Child-Directed Vocabulary
    *Reiko Mazuka, Akiko Hayashi, Maki Takahashi and Tadahisa Kondo*

25. A Longitudinal Analysis of Children's One-to-One Correspondence Behaviors
    *Joe Anderson, Kelly Mix*

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**Sa43 Cognition Memory and Learning**

26. Detecting Visual-Proprioceptive Contingency Contribute to Children's Self-Recognition on Delayed Feedback
    *Michiko Miyazaki and Kazuo Hiraki*

27. When Frustrations Are Repeated: Infant Behavior and Emotions
    *Angela Crossman, Margaret Sullivan and Daniel Hitchcock*

28. Infants' Novelty Preferences Reverse When Objects Are Hidden: Shedding Light on Potential Mechanisms of Object Concept Development
    *Jeanne Shinskey and Yuko Munakata*

29. Nine-Month-Old Infants Connect Action Goals to Individual Agents
    *Jennifer Sootsman and Amanda Woodward*

30. Infants' Use of Heuristics in Search: The Development of Sensitivity to Cues for Containment
    *Daniel McCall, Tamara Affigato and Marcy Adler*

31. Understanding of Social Cues in an Object-Choice Task. A cComparative Study With 2.5-Year Old Children and Great Apes
    *Jochen Barth, Josep Call and Michael Tomasello*

32. Assessment of Spatial Cognition in 2.5-Year Old Children and Great Apes
    *Jochen Barth and Josep Call*
33. Orientation Specificity for Infant Event Representations
   Peter Gordon, Kristen Bellanca, Margaret Heller, Noa Porath and George Castle

34. What You See is Not Always What You Get: Showing Effects of Event Structure
   Peter Gordon, Alisa Matlin, Nicholas Joy, Erin Aylward and Janet Eisenband

35. Infant Motor Patterns and Memory Function in the Conjugate Reinforcement Mobile Task
   Hama Watanabe, Gentaro Taga, Keisuke Kushiro and Kayo Asakawa

36. The Development of Gaze Following in Naturalistic Interactions: Behavioral Evidence From 3- to 12-Month-Old Infants
   Gedeon Deák, Leigh Sepeta, Jochen Triesch and Eric Carlson

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Sa44 Social Development

37. Cross-cultural Differences in Differential Fetal Heart Rate Responses to Mother’s and Stranger’s Voices
   Laura Smith, Kang Lee, Darwin Muir and Barbara Kisilevsky

38. Infants Demonstrate Sensitivity to the Emotional Vocal Expression of a Virtual Adult
   Laura Smith, Rianne Hastie, Christine Hains and Darwin Muir

39. In Naturalistic OME Observations Depressed Mothers Are in a Less Positive and Contingent Relationship With Their Infants
   Linda Bell, Jacob Ham, Katherine M. Weinberg, Eric Yergeau and Edward Z. Tronick

40. Development of Joint Attention in an Infant Chimpanzee.
   Sanae Okamoto, Masayuki Tanaka, Masaki Tomonaga and Tetsuro Matsuzawa

41. Infant Attachment can be Successfully Predicted From 6-Month Still-Face Behavior
   Sheelagh Jamieson, Kevin Parker, Susan Goldberg, Sylvia Hains and Darwin Muir

42. Cultural and Contextual Factors in the Still-Face Paradigm: A Study of 5-Month-Old Sri-Lankan (Tamil) Infants
   Sheelagh Jamieson, Kevin Parker, Chandra Jeyakumar, Sylvia Hains and Darwin Muir

43. Behavioral Approaches to Infant Sleep: Implications for Emotional Development
   Macall D Gordon and Bill Forisha

44. Infants’ Expectations for Robots: How do They Think of Humaid-Robots Being Interactive With Persons?
   Arita Akiko and Hiraki Kazuo

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Sa45 Emotional Development

45. Analysis of Maternal Feelings about Pregnancy and Locus of Control Influences on Early Child Self-Regulatory Behavior
   Jennifer DeGroot Hanawalt, Aimee Rustman and Ty Partridge

46. Maternal Depression and Parenting across the Preschool Period: Implications for Children’s Emotional and Behavioral Development
   Casey Hoffman

47. Correlates of Marital Satisfaction: Changes With the Addition of a New Child
   Geoffrey Brown, Sarah Schoppe-Sullivan, Margaret Szewczyk Sokolowski, Ava Turner and Sarah Mangelsdorf

48. Infant Temperament and Gender: Associations with Mothers’ and Fathers’ Parenting
   Margaret Szewczyk Sokolowski, Sarah J. Schoppe-Sullivan, Geoffrey L. Brown and Sarah C. Mangelsdorf
49. Emotional Availability and Attachment in Families Affected by HIV  
Mary J. Ward, Diana Gutierrez, Cristina Medellin and Marianne Heslington

**Sa46 High Risk and Pediatric Issues**

50. Differences Between Mothers Planning to Breastfeed vs. Formula Feed in a High Risk Population  
Ajay A. Vyas

51. Influence of Prenatal Stress on the Development of Arousal Regulation of the Infants  
Anja Kahnt, Caroline Haff, Harald Wurmser and Mechthild Papoušek

52. How do Maternal Eating Behavior and Attitudes Affect Their Feeding Behavior?  
Sandy Moll, Christa Müller, Caroline Haff, Harald Wurmser and Mechthild Papoušek

53. The Impact of Maternal Psychosocial Risk Factors on Mother-Infant Communication  
Caroline Haff, Anja Kahnt, Harald Wurmser and Mechthild Papoušek

**Sa47 Psychopathology and Developmental Delay**

Kathryn S. Lemery, Nicole L. Schmidt, Amanda A. Justen and H. Hill Goldsmith

**Sa48 Early Environments and Social Policy**

55. Household Food Insufficiency and Bayley Scales of Infant Development Scores Between 6 and 36 Months  
Ruth Rose-Jacobs, Howard Cabral, John Cook, Brett Martin and Deborah A. Frank

**Sa49 Undergraduate Research**

56. Electrophysiological Correlates of Emotion and Face Recognition in Typically Developing Toddlers  
Kristen L. M. Wiik, Susan W. Parker, David J. Marcus and Chuck A. Nelson,

57. The Effect of Non-Speech Sounds and Labels on Categorization  
Louis Tobin, Erica M. Howard, Christopher W. Robinson and Vladimir M. Sloutsky

**Sa50 Symposium**

** Elevated Pregnancy Cortisol, Prematurity and Interventions**

**Chair:** Tiffany Field  
**3:00 PM - 4:50 PM**  
**Adams Room**

Elevated Cortisol as a Risk Factor for Less Optimal Fetal Growth  
Miguel A. Diego, Tiffany Field, and Maria Hernandez-Reif

Elevated Cortisol as a Risk Factors for Less Optimal Neonatal Outcome  
Tiffany Field, Miguel A. Diego, and Maria Hernandez-Reif
Early Exposure to High Endogenous Cortisol has Long-Term Effects  
*Vivette Glover, Rachel Miles, Neena Modi, and J. Stevenson*

Reducing Pregnancy Cortisol and Prematurity  
*Maria Hernandez-Reif, Tiffany Field, and Miguel Diefo*

Discussant: *Edward Goldson*

**Sa51 Symposium**

**Addressing Individual Differences in Temperament and Related Behaviors Using Multiple Physiological Measures**

**Chair:** Kristin A. Buss  
3:00 PM - 4:50 PM  
**Monroe Room**

Building a Biosocial Model of Internalization: Predicting Toddlers' Committed Compliance From Their Cardiac Vagal Tone  
*Paul Hastings, Ishani De, Rick Parker, Caroline Sullivan, and Samantha Goldwater-Adler*

Using EEG and ECG to Investigate the Integration of Temperament and Cognition  
*Marth Ann Bell, and Christy D. Wolfe*

Specificity of Physiological Correlates for Approach- Versus Withdrawal-Related Temperament Dimensions  
*Kristin Buss, Kathy Lemery, Ned Kalin, Richard Davidson, and Hill H. Goldsmith*

Relations Among Frontal Brain Activity, Heart Rate, Salivary Cortisol and Temperament During the First Year of Post-Natal Life  
*Louis Schmidt, Laurel Trainor, Susan Tasker, and Diane Santesso*

Discussant: *Susan Calkins*

**Sa52 Symposium**

**The Interaction Between Perception and Action in Infancy**

**Chair:** Petra Hauf  
3:00 PM - 4:50 PM  
**Parlor H Room**

Developmental Changes in Visual Scanning of Dynamic Faces and Abstract Stimuli in Infants: A longitudinal Study  
*Sabine Hunnius, and Reint H. Geuze*
Perception of Others’ Actions and Production of Own Actions in 7 to 11-Month-Old Infants
*Petra Hauf, Wolfgang Prinz and Gisa Aschersleben*

Fitting Objects Into Holes: On the Development of Spatial Cognition Skills
*Helena Örnkloo, and Claes von Hofsten*

Bridging the Gap: Infants’ Ability to Use Prior Knowledge to Solve New Problems After a Delay
*Harlene Hayne and Julien Gross*

Discussant: *Gisa Aschersleben*

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**Sa53 Symposium**

**The Development of Visual Proprioception: Antecedents and Consequences**

**Chair:** Joseph J. Campos

3:00 PM - 4:50 PM

**Crystal Room**

Does the Moving Room Elicit Emotional Responses in Locomotor-Experienced Infants?
*Tim Poore, Joseph J. Campos, David Anderson, Diane Anderson, and Ichiro Uchiyama*

The Use of a Powered-Mobility-Device to Study Locomotor Experience and Visual Proprioception
*Ichiro Uchiyama, David I. Anderson and Joseph J. Campos*

Does Locomotor Experience Affect Responsiveness to Terrestrial Optic Flow?
*Laure Lejeune*

Does Visual Proprioception Affect Avoidance of Heights?
*Joseph Campos, Carl Frankel, Laure Lejeune, David I. Anderson, and David Witherington*

Discussant: *David Anderson*

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**Sa54 Keynote Address**

Dr. T. Berry Brazelton

**Stresses and Supports for Families: the Touchpoints Program**

5:00 PM – 6:15 PM

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INFANCY
The Official Journal of the
International Society on Infant Studies
Editor: Richard N. Aslin

Editorial Scope
This journal emphasizes the highest quality original research on normal and aberrant infant development during the first two years. Both human and animal research are included. In addition to regular length research articles (30 page maximum) and brief reports (10-page maximum), the journal includes selected target articles along with a series of commentaries, debates, in which different theoretical positions are presented along with a series of commentaries, and thematic collections. A group of four or five moderate to short reports or summaries of research on the same issue, conducted independently at different laboratories but all leading to a common conclusion.

Audience
Academic researchers in psychology, child development, neuroscience, pediatrics, nursing, and education.

Volumes 5 & 6, 2004, 6 Issues
Category Access Type Price US-Canada/All Other Countries
Individual Online & Print $55.00 / $49.00
ISSN 1529-0358 / Online ISSN 1532-7076

PARENTING
Science and Practice
Editor: Marc H. Bornstein

Editorial Scope
Parenting: Science and Practice strives to promote the exchange of empirical research, theoretical perspectives, and methodological approaches from all disciplines that help to define and advance the field. It is dedicated to the study of parenting, its role in development, and the multiple contexts of parenting and family relationships. Articles published in Parenting: Science and Practice will be meaningful to parents and others interested in the origins and development of parent-child relationships.

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Volumes 4, 2004, Quarterly
Category Access Type Price US-Canada/All Other Countries
Individual Online & Print $50.00 / $50.00
ISSN 1529-6162 / Online ISSN 1532-7922

RESEARCH IN HUMAN DEVELOPMENT
The Official Journal of the
Society for the Study of Human Development
Editor: Jacquelyne Eccles

Editorial Scope
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Audience
Researchers, educators, policymakers, and practitioners in all fields interested in human development.

Volume 1, 2004, Quarterly
Category Access Type Price US-Canada/All Other Countries
Individual Online & Print $80.00 / $80.00
ISSN 1542-7699 / Online ISSN 1542-7617

JOURNAL OF COGNITION AND DEVELOPMENT
Official Journal of the Cognitive Development Society
Editor: Patricia J. Bauer

Editorial Scope
The Journal of Cognition and Development publishes the very best articles on all aspects of cognitive development. In addition to empirical reports, it features theoretical essays (occasionally accompanied by commentary), and essay reviews of new and significant books. Criteria for acceptance of submitted manuscripts include:

- Relevance of the work to issues of broad interest
- Substance of the argument (including methodological rigor and support for conclusions drawn)
- Ingenuity of the ideas or approach
- Quality of expression

Audience
Psychologists, cognitive scientists, neuroscientists, linguists, anthropologists, and anyone else interested in the origins and development of cognition.

Volumes 8, 2004, Quarterly
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